

Teacher Standardisation

November 2016

Extended Project Qualification - 7993

Project 3

2015/16 Candidate record form, production log and assessment record

Level 3 Extended Project (7993)

Please attach the form to your candidate's work and keep it at the centre or send it to the moderator as required. The declarations should be completed as indicated.

Centre number

Centre name

Candidate number

Candidate's full name

Work submitted for assessment must be the candidate's own. If candidates copy work, allow candidates to copy from them, or cheat in any other way, they may be disqualified.

Candidate declaration

Have you received help/information from anyone **other than** subject teacher(s) to produce this work?

☒ No

☐ Yes (give details below or on a separate sheet if necessary).

Please list below any books, leaflets or other materials (eg DVDs, software packages, internet information) used to complete this work **not** acknowledged in the work itself. Presenting materials copied from other sources **without acknowledgement** is regarded as deliberate deception.

From time to time we use anonymous examples of candidates' work (in paper form and electronically) within our guidance materials to illustrate particular points. If your work appears in AQA materials in this context and you object to this, please contact us and we will remove it on reasonable notice.

I have read and understood the above. I confirm I produced the attached work without assistance other than that which is acceptable under the scheme of assessment.

Date 2015-10-15

Supervisor declaration

I confirm the candidate's work was conducted under the conditions laid out by the specification. I have authenticated the candidate's work and am satisfied (to the best of my knowledge) that the work produced is solely that of the candidate.

Date 29/10/15

Candidate number

Candidate's full name

Submission checklist

To be completed by the supervisor

Please note that all elements of the Project are compulsory. Failure to complete or submit an element may result in a mark of zero being awarded.

Select/tick	Items to be included	Notes
<input checked="" type="checkbox"/>	1. A signed and completed <i>Candidate record form, Production log and Assessment record</i>	This document. All pages must be completed by the candidate, except for pages 3, 7, 8 and 14.
<input checked="" type="checkbox"/>	2. Evidence of the project outcome <i>* Coding for App</i>	Eg photographs of artefact or production; a piece of creative writing (artefact); research based written report.
<input checked="" type="checkbox"/>	3. Research based written report	If the project outcome is an artefact or a production, an accompanying research based written report is required.
<input checked="" type="checkbox"/>	4. Evidence of a presentation within the production log	Presentation on the project process. Where the project outcome is a presentation, a presentation on the project process still has to be completed.

Candidate number

Candidate's full name

Record of marks

To be completed by the supervisor

Marks must be awarded in accordance with the instructions and criteria in section 2.5.2 of the specification.

Summary information to show how the marks have been awarded should be given in the spaces below in addition to comments in other pages of this document and any supporting information in the form of annotations on the candidate's work.

Skill area	Maximum mark	Mark awarded	Supervisor's supporting statement
A01 Manage	10	10	A project with very clear objectives set out from the start. Highly effective use of a Gantt chart with each task clearly set out and undertaken, resulting in a proficient series of outcomes
A02 Use resources	10	6	Evidence of sources incorporated into work from technical research to primary sources. Perhaps lacks some clarity over how these sources were used to meet top band. ✓
A03 Develop and realise	20	18	The project has been fully implemented to a hugely impressive standard with a fully functioning app available to download. Aims have been adjusted over the project based on realistic expectations of both the technology and people involved and work is presented in a highly logical and structured way
A04 Review	10	8	A detailed reflection suggests a well thought through summary of strengths and weaknesses. Work was presented effectively with excellent use of technology
Total mark	50	42	

Concluding comments

A hugely impressive piece of work; whilst at times perhaps too logical and structured, there is no doubt that the planning, preparation and implementation of the project was excellent and the level of technological knowledge substantial. The fact that the app is now in use across the school speaks volumes for the success of this project.

Centre Co-ordinator Comments: The demonstration of the app - the presentation was particularly useful - assessing the project. Mark agreed ✓

Outline details of taught skills (specification 2.3 the taught element of the Extended Project

Record here details of relevant skills taught in a class/group and details of relevant skills taught individually to this candidate as described in the specification. Continue on a separate sheet if necessary.

The taught element included whole class sessions on time management research and evaluation, referencing and compiling a bibliography, ethics of research, analysing data, report writing and presentation skills. In addition, individual supervision sessions were used to deepen and extend skills directly relevant to a student's project.

Supervisor declaration

I confirm that no work assessed for the award of the marks above is also to be submitted, or has been submitted, for any other accredited qualification(s).

Candidate number

Candidate's full name

Contents

To be completed by the candidate

Extended Project working title

Planner App

Planned form of project

☐

Either written report

☒

Or iOS app

and accompanying written report

This document consists of the pages listed below. Additional journal material, planning evidence, research evidence, presentation evidence and review material may be added.

Page	Title	Date completed
1	Candidate declaration	24-06-15
2 - 3	Submission checklist and Record of marks	
4	Contents	24-06-15
5	Record of initial planning	24-06-15
6 - 8	Project proposal and approval (Parts A, B and C)	25-06-15
9	Planning review	15-07-15
10	Mid-project review	07-09-15
11	End-of-project review	07-10-15
12	Summary	09-10-15
13 - 14	Presentation record (Parts A and B)	14-10-15
15	Reflection	21-10-15

Is this extended project part of a group project?

☒

No

☐

Yes If 'Yes', give brief details

Extended Project final title

Planner App

Candidate number

Candidate's full name

Record of initial planning

To be completed by the candidate

This page records initial meeting(s) with your supervisor to agree your project proposal.

Your first idea for topic/title

Information and Communication Technology

Software

A mobile app

Your first ideas for research and development of your project

A mobile app which would show students school information from the website and other information and news from the parent portal for parents. Class information could be available from the VLE.

Information needs to be obtained to determine what information would be good to be made available to students and parents from the website and/or VLE.

Push notifications could be used to send messages to students/parents about events or other important upcoming events or changes to events. The existing system is archaic and subject to SMS which could be updated based on discussions with related members of staff to better suit the changes to the way the target audience of these messages receive updates.

Your supervisor's main comments and advice

My supervisor said that this was a good initial project idea. Development through addition of more content from the website could develop the project into a fully-featured app with content from the website. Changes occurring to the school next academic year needs to be prepared for, with sufficient research on how this would affect the preliminary ideas for content that would be implemented in the app once development has begun. Research on how push notifications could be implemented needs to take place so that I am able to implement that feature as I have not tried to use push notifications within an app prior to this.

Changes, clarifications or additions you have made as a result of your discussion with your supervisor

With changes to the organisational structure of next academic year, discussions needs to take place with a member of staff such as Mr W to discuss what content would need to be added based on such changes (i.e. changes to colleges becoming houses with new names and updated structure).

The app would be developed with Framework7 to be cross-platform to suit the entire target audience of the app (both iOS and Android). Push notifications could be implemented with the Parse framework which would allow messages to be 'pushed' to all installations of apps with push notifications enabled.

Signature

Signature

Date

24/6/15

Candidate number

Candidate's full name

Project proposal part A

To be completed by the candidate

Title of the Extended Project.

Present the topic to be researched in the form of a short statement/question/hypothesis with clear focus.

Planner App

Provide a brief outline, based upon page 5 of this document, of

- the topic researched or activity/task to be carried out and sources to be consulted

A mobile app with school information.

<https://developer.apple.com/resources/>; <http://www.idangero.us/framework7/docs/>; <https://parse.com/docs/>;
<https://cordova.apache.org>

- the courses of study or area(s) of personal interest to which the topic relates

Computer Science

Software Engineering

- your proposed action

To create a mobile app for the _____ which will include news and information for students and parents to have access to important material, including push notifications for news updates to the aforementioned target audience.

Provide details of the courses that you are currently studying

Qualification Type	Subject
eg A-level, VRQ, Modern Apprenticeship, BTEC	eg Mathematics, English, Leisure & Tourism, Spanish, ICT
A-level	Mathematics
A-level	Further Mathematics
A-level	Physics
A-level	ICT

Qualification Type	Subject

Notice to candidate You must not take part in any unfair practice in the preparation of project work required for assessment and you must understand that to present material copied directly from book or any other sources without acknowledgement will be regarded as deliberate deception. If you use or attempt to use any unfair practice you will be reported to AQA and you may be disqualified from all subjects.

Candidate declaration

I certify that I have read and understood AQA's Regulations relating to unfair practice as set out in the notice to candidates above.

Date

2015-10-14

Candidate number

Candidate's full name

Project proposal part B

To be completed by the supervisor

Please comment below on the validity and feasibility of the proposal (project proposal Part A) as an Extended Project (specification 2.4)

	Supervisor's comments
Comment on the clarity and focus of the title chosen	This is an idea with clear structure and focus - they are aware of what it is they want to produce and what it should do
Indicate the relation to, and development/extension outside of, the main course(s) of study or interest (specification 1.2)	The production of an app is beyond the scope of the courses being studied
Comment on the suitability of the proposed initial sources and research base	The need to research the technology behind updates gives a clear focus on what he needs to find out. He is aware of sources for this and also a primary source focus on the actual practical workings of the app are available to him
Confirm that the project is feasible in the proposed timescale and/or indicate any potential difficulties	is proficient with ICT already so he is confident the technological aspect is not beyond him. The summer break may make it difficult to access relevant people at a crucial stage in his project so he needs to be proactive
Outline the scope to produce a project that meets the assessment objectives (specification 2.5.3)	This should allow him to cover all areas, particularly the review when the app is up and running
Indicate proposed form and date of the presentation	Professional presentation around October 2015

Indicate the expected format of the project product that will be submitted for assessment

- ☐ Long written report
☐ Live performance (e.g. music, drama, theatre, substantial presentation) plus written report
☒ Electronic format (e.g. CD, video, computer presentation) plus written report
☐ Artefact (e.g. in design & technology, art & design) plus written report

Is the project a contribution to a group exercise? If Yes, confirm that there is a defined individual contribution by the candidate (specification 2.5.1 Group Work) ☐ YES ☒ NO and list other group members below.

Candidate No. Candidate Name

Candidate No. Candidate Name

Candidate No. Candidate Name

Candidate No. Candidate Name

Candidate No. Candidate Name

Date 24 June 2015

Candidate number

Candidate's full name

Project approval part C

Supervisor's full name

To be completed by the centre coordinator

Comment below on the feasibility and acceptability of the proposal (project proposal parts A & B) as an extended project (specification 1.4)

Centre coordinator's comments

This project has a clear purpose and outcome. It may need refining in terms of the title in order to ensure that it is analytical. However, overall it is feasible and acceptable.

↳ Analysis present without framing a question.

☒ Approved

☐ Approved subject to the implementation of the centre coordinator's recommendations

☐ Resubmission required

Centre coordinator's full name

Centre

Signature

Date 01 July 2015

Candidate number

Candidate's full name

Planning review

To be completed by the candidate

This page records your outline plan at the start of your work.

Outline the next steps in your planned research/initial development

Reading of necessary and/or relevant information with regard to project development, including but not limited to the Framework7 framework documentation and Parse push notifications documentation.

Meeting with Mr W is yet to be arranged to discuss features to be made available to students and teachers within the app and their relative impact on students and staff in the school. Discussion regarding who would be given authority for sending push notifications to students and staff yet to take place, although this is not necessary for the development of the app at its current state.

Brief discussion has taken place with Mr M over implementing VLE authentication, however Mr M suggested a discussion is worthwhile with the external VLE developer at a convenient time for all parties involved to further discuss the implementation of TDA-specific features that have been implemented in the current VLE.

Gantt chart development and consolidation including confirmation of all section deadlines with supervisor and clarification that all durations are adequate and sufficient for the work that is necessary to complete each task.

Your supervisor's main comments and advice

The Gantt chart must include necessary time to permit slight deviations from the initial planned task date constraints whilst still meeting the delineated section deadlines.

Knowledge and/or predictions for the durations of the tasks must be accurate enough to permit accurate predictions and planning to select appropriate start dates for tasks.

Changes, clarifications or additions you have made as a result of your discussion with your supervisor and/or the comments from your centre coordinator

Deadlines were added to the Gantt chart and scheduling of tasks was increased and estimated for certain tasks in the task list to permit redistribution of tasks over the project timescale.

Predecessors for individual tasks were added, similar to the base section predecessor tasks, to make sure that each task is carried out at an appropriate time to better suit the state of other tasks in the project.

Supv

Signature

Date

15/7/15

Candidate number

Candidate's full name

Mid-project review

To be completed by the candidate

This page records your outline plan about half-way through your work.

Outline the successes, failures, additions and/or changes you made as you followed your plan at the start of the project

The project so far has been a success in general. The app framework has been developed and delivers push notifications to devices which have the app installed, per the plan. The plan was followed, ensuring that the deliverables were created and pushed in a timely manner. Throughout the project, I have updated the Gantt chart to include changes that were made to the schedule, ensuring that I met all the deadlines set. The meetings that I had with relevant parties were conducted well and the information provided was useful in the development of my product. I have read and understood the documentation for both Framework7 and the relevant section of Parse, enabling me to implement these frameworks into my app.

For
Reviews
used

Outline your planned steps to complete your project

I will be finalising the news feature of the app to contain more detail about events and other information than can be delivered in push notifications. I will also attempt to include updated house information, such as was available on the website for colleges, however this is dependent on the copy being written by those responsible. Final details will be decided for the app in liaison with Mr W (and Mr M if applicable). Following success, the app will be sent to Apple for approval and published on the App Store. I will continue to work on the project report and prepare for the presentation.

Language
1003

Your supervisor's main comments and advice at this stage

My supervisor said the project is progressing well, but I need to make sure that I am working on the presentation alongside my report to make sure that I am able to meet the deadline for that section of the project. I have good evidence of research and personal correspondence is useful in gaining personalised feedback.

Changes, clarifications or additions you have made as a result of your discussion with your supervisor at this stage

I will work on the project report and presentation simultaneously to make sure that I am ready for the presentation deadline. My comprehensive planning ensured that I met deadlines so far and it appears that I will continue to meet the planned completion dates per my Gantt chart.

Sup

signature

Date

7/9/15

Candidate number

Candidate's full name

End of project review

To be completed by the candidate

This page records the (near) completion of your project product.

Outline the successes, failures, additions and/or changes you made as you followed the plan in your mid-project review

I have met all the deadlines throughout this project by making sure that I maintain my effort throughout and continually improve the durations of tasks in my Gantt chart. The finished app works well and to specification. The app is in use by students in the school and news has been added. At the time of writing, the term dates is the latest news added to the app as other news which is now obsolete (such as the 6th form open evening). Meetings with Mr W and Mr M helped me with integrating the app with the school system and despite adding more time to the duration of the project, it was necessary for the app to function, as well as providing insight into how the privacy of student data is protected.

Outline any additional advice or comment that you received from your supervisor during this final stage

My supervisor gave me some guidance regarding the word limit of the report. I was informed that the word limit of 1,000 words for the report was only a guide and that I would be able to extend beyond this slightly to provide a more comprehensive conclusion in my report. I would be able to extend my report by approximately an additional 10–15%.

Changes, clarifications or additions you made as a result of discussion with your supervisor in this final stage

I expanded the conclusion in my report, enabling me to discuss further the potential of the app and how I could continue development beyond EPQ. Furthermore, more detail in my conclusion would let me describe how I would do my project differently if I had the opportunity to do it again, which is an important part of the project's evaluation.

Signature

Signature

Date

7/10/15

Candidate number

Candidate's full name

Summary

To be completed by the candidate

This page records the nature of your project product (abstract).

Outline (50 – 150 words) the nature of your final product, its main content and your conclusion

I identified a need for students and parents to receive timely school information on their mobile devices and that the current system was ineffective in providing this information. My final project is concerned with solving this problem through the development of an app which provides the ability for news to be pushed to devices.

Alongside members of staff inside the school, I developed a specification for the app and proceeded to develop the app to this specification. Features were added and tested to ensure functionality and to meet the criteria delineated by the project development process.

In conclusion, the app that I developed works well for the intended solution and that it is used by a number of students and parents to receive information from the school.

Candidate number

Candidate's full name

Presentation record part A

To be completed by the candidate

This page records your presentation and its preparation.

Planned nature of your presentation (e.g. timing, audience, use of visual aids, slides, use of notes, etc.)

My presentation will be in electronic format using Keynote for Mac. I will use slides to help me present my project to my audience, using screenshots and other media. Transitions will be used between some slides to provide context to the content on the screen, such as linking screenshots of app segues (states of app for moving between scenes in a storyboard). This helps the audience understand how the app works in practice, but I will also demonstrate the app live to my audience by mirroring my iPhone display to the projector. I will use presenter view to view my slide notes alongside my presentation should I need guidance at any point during the presentation, however I will endeavour to learn the content of my presentation to provide the most fluid and dynamic presentation possible. My audience will be my supervisor and other students from the sixth form.

Briefly list the main content of your presentation

My presentation will cover the functionality of the app and my planning and development process. I will use my report as a basis for the presentation to make sure that I cover the content sufficiently and succinctly. The audience will understand how I completed this project and why I made the choices that I did at points along the development process. I predict the presentation will last approximately 10 minutes.

I will begin by informing my audience of the history of the planner in context for my project. I will briefly discuss the planning stage of the project next, as I will include details of the project plan as I progress through my presentation. My presentation will include screenshots of my app and I will discuss the features that these are taken from, then a demonstration of the app will cover the features live. Finally, I will discuss the impact of the app and a conclusion will provide the audience with my opinion regarding the project as a whole. After concluding my prepared presentation, I will open for questions.

Changes, clarifications or additions you made as a result of rehearsal and/or discussion with your supervisor

My supervisor informed me that I will have approximately 10 minutes for my presentation, therefore a 10 minute presentation would be ideal, but I need to leave enough time for questions. Therefore, my presentation needs to be slightly shorter than 10 minutes to allow sufficient time for questions, as well as preparation time at the beginning. I will make sure to include the most interesting parts of the presentation and spend more time with the viewer participation section to ensure that my viewers remain interested.

Furthermore, as I will be presenting my presentation from my laptop, I will need to obtain and set up a projector for me to connect my laptop to so that the audience can see the content in more detail.

I will engage the audience with a demo through mirroring my iPhone on to the projector which helps me describe the app as I can show features and functions live and talk through the functionality with them.

Candidate number

Candidate's full name

Presentation record part B

To be completed by the supervisor

Record and comment below on the delivery of the presentation (specification 2.5.1 presentation)

	Supervisor's record/comments
The nature of the audience (include numbers of staff, students and others present)	2 members of staff, both supervisors and in addition, 4 other students
The nature of the presentation (include use of notes, use of display items, and use of presentation software)	PowerPoint presentation and also a demonstration of the app by ghosting his mobile phone screen onto the big screen to show how the app actually works
Comment on the content and delivery of the presentation	<p>The presentation covered the process of the project including the context of the idea, planning, research undertaken, the app itself, the trial and conclusions</p> <p>The delivery was confident, clear and well prepared and the use of technology really supported the presentation without being intrusive</p>
Comment on the response of the candidate to questions that demonstrated understanding and grasp of the project and/or its production (give examples where appropriate).	<p>1. What was the biggest challenge from a non technical perspective? The was the access to data without compromising anyone's data - contact with key individuals at school was required and permissions needed to be obtained</p> <p>2. Were there any negative feedback to the app? Most comments were positive and constutive and there were very little negative comments made even if the app rating was low.</p> <p>3. How did you ensure appropriate evaluation of sources? Mostly human feedback was required to develop a plan and this entailed making achocie between Android and iOS. I went on numbers who were using the different platforms for a robust decision and then ensured during the process the app could be switched from iOS to Android easily although I didn't have time to do both</p> <p>4. What was the biggest thing you learnt from this process? The meetings with senior staff were useful in relation to conducting myself in this kind of setting. Also, the laws around student data were very useful to get to grips with.</p>
Outline the nature of any additional presentation evidence that the candidate might add (e.g. speaker notes, handouts, presentation slides, recording).	Slides of presentation provided

50

100000

Date

18/10/15

Candidate number

Candidate's full name

Reflection

To be completed by the candidate

This page records your own evaluation when you have completed your project product and given your presentation.

Briefly summarise your main learning from completing this project. You might include new knowledge or expertise that you enjoy or find valuable, a consideration of your planning and organisation, changes you would make if you undertook such work again, advice you would give to others undertaking such a project.

This project was very interesting to work on, and challenging yet rewarding. I learned many skills which will be useful in the future, both for A-levels and beyond. Planning a project with a Gantt chart is a transferrable skill which I utilised effectively here to make sure that I did not miss any deadlines along the project timeline, however I also learnt skills specifically regarding the artefact that I completed for the development of the app such as adding push notifications to an iOS app, as whilst I've made apps before, I have never integrated push notifications into such an app.

Organisation is pivotal to a successful project. I made sure to plan ahead, using and updating a Gantt chart to make sure that I met deadlines. I felt this worked well and despite being closer than I would have liked to certain milestones, I did not miss any deadlines along the project. Time was tight with this project and I didn't have as much time as I would have liked to finish the project. I made sure to limit the scope of my artefact as early as possible (limiting it to the iOS platform), which ensured that I did not give myself too much work for the EPQ. However, this limited the audience of my artefact, which is something that I would not have done had enough time been available.

Having completed my first app for this audience, I realised the value that advertising provides to apps for The app was found solely through word-of-mouth and I would have liked to extend this by creating banners or emailing a link to students, however I also did not have time for this and did not factor this time into my planning as I did not expect to do this. This is something that I regret and definitely something I would do if I could do this project again.

With regard to the artefact itself, I would have planned my programming better. In the end, my programming works, but is not extendable and is difficult to debug. For future programming projects of this size, I will use pseudocode (language-agnostic programming) to plan out the layout of my project, and use object-oriented JavaScript to better structure my code. As shown in my report, the code is poorly structured, and whilst it works and meets all the requirements, if I needed to add features in the future, considerable refactoring would be required before features added. Pseudocode allows me to foresee potential problems with UI-model interaction and allow me to change the code in concept form before implementation.

Integrating the app with the system required meeting with Mr W and Mr M. They provided valuable insight into the laws surrounding accessing student data and the privacy concerns with obtaining access through an external system. This led to many constraints to the app such as requiring that the data be processed on the user's device—not by an external server that could potentially allow me to parse the data first.

Presenting is not something that I do often, hence the presentation section of the EPQ is good practice, having created slides in Keynote and then presenting this to an audience. I reduced the length of the presentation and focused more on the timeline of the project rather than the details of each task within the development steps, which kept my audience interested and helped with simplification of the project for those who are not familiar with app development.

For future students taking part in the EPQ, I would suggest that the widest variety of sources are obtained, including personal correspondence. This ensures that the information used is accurate and up-to-date, as well as providing the ability for personal feedback related directly to the artefact that is being created. Also, making sure

To see how we comply with the Data Protection Act 1998 please see our Privacy Statement at aqa.org.uk/privacy

that planning takes place before the project starts ensures that there is clear structure for the project and that deadlines are met. Finally, having watched other's presentations, presentation notes must be learned so that the presentation is delivered fluidly. If notes are not learned, the presentation feels disjointed, and using notes alongside the presentation appears unnatural and loses the audience's interest in the subject.

In conclusion, I am very pleased with how the project progressed and I am delighted with the finished artifact. I am now able to confidently design and produce an app which has complex functionality and integrate such app with the school system, and look forward to using such experience in the future.

Planner App

EPQ

<u>Abstract</u>	<u>2</u>
<u>History</u>	<u>2</u>
<u>Planning</u>	<u>3</u>
Solution Overview	
Research Requirements	
Resources and Research Sources	
Gantt Chart	
<u>Research Analysis</u>	<u>5</u>
<u>Solution</u>	<u>6</u>
UI Draft	
Feedback	
Development	
<u>Conclusion</u>	<u>7</u>
<u>Log</u>	<u>8</u>
<u>Bibliography</u>	<u>9</u>

Abstract

A mobile app to show students their timetable from the school VLE and school information from the website, and other information and news from the parent portal, would be useful to make information more readily accessible when it is needed and makes it easier to manage different recipient cohorts. Alerts, used for time-dependent information, will be used to send messages to students and staff.

History

When the [redacted] was opened to students in 2007¹, the students were issued with paper planners.² This was a small book provided for each student to use to view their timetable and record their homework. The timetable, previously stored on ePortal³ would be copied into the *Timetable* section in the planner, thus providing students with access to the timetable if and when they need it.

The decision to discontinue the paper planners was made on May 13, 2013⁴ and this lead to students requiring an alternative method for accessing their timetable. The ability for students to open ePortal³ mitigated this problem as they were able to open their timetable to view which lessons they had that day, or print a timetable so that they did not need to log in to a computer to access it.

At the beginning of the current school year (2015–2016), ePortal was discontinued in favour of a new system: SIMS.³ The SIMS platform manages the timetables, along with all the main school student data.⁵ The data from ePortal, including timetable data, was moved to SIMS.⁶ However, students have no access to SIMS at the current time and there are no immediate plans to change this, due to the sensitive nature of the data contained within.⁷

Thus, students have no access to their timetable without the aid of a member of staff. This is usually their house admin, putting extra strain on a member of staff who is already busy at the start of lessons at 8:45.⁸ By waiting for their timetable, the student is likely to be late to their first lesson, which impacts on teaching and learning for that lesson.

Planning

Solution Overview

I intend to create an app which will provide students the ability to access their timetable on their iOS device. iOS devices are the most used mobile devices in the school,⁹ providing a good basis for appealing to the majority of students at the school. The app will contain a personalised timetable, school news and general school information.

Research Requirements

Information needs to be obtained to determine what information would be good to be made available to students and parents from the website and/or VLE. The current website provides a wide variety of information¹ for a number of target audiences, which needs to be narrowed down into essential and useful information that would need to be accessible in an app such as this.

Furthermore, research needs to be carried out regarding development of an app which is to provide push notifications. Push notifications could be used to send messages to students/parents about events or other important upcoming events or changes to events. The existing system is archaic and subject to SMS which could be updated based on discussions with related members of staff to better suit the changes to the way the target audience of these messages receive updates.

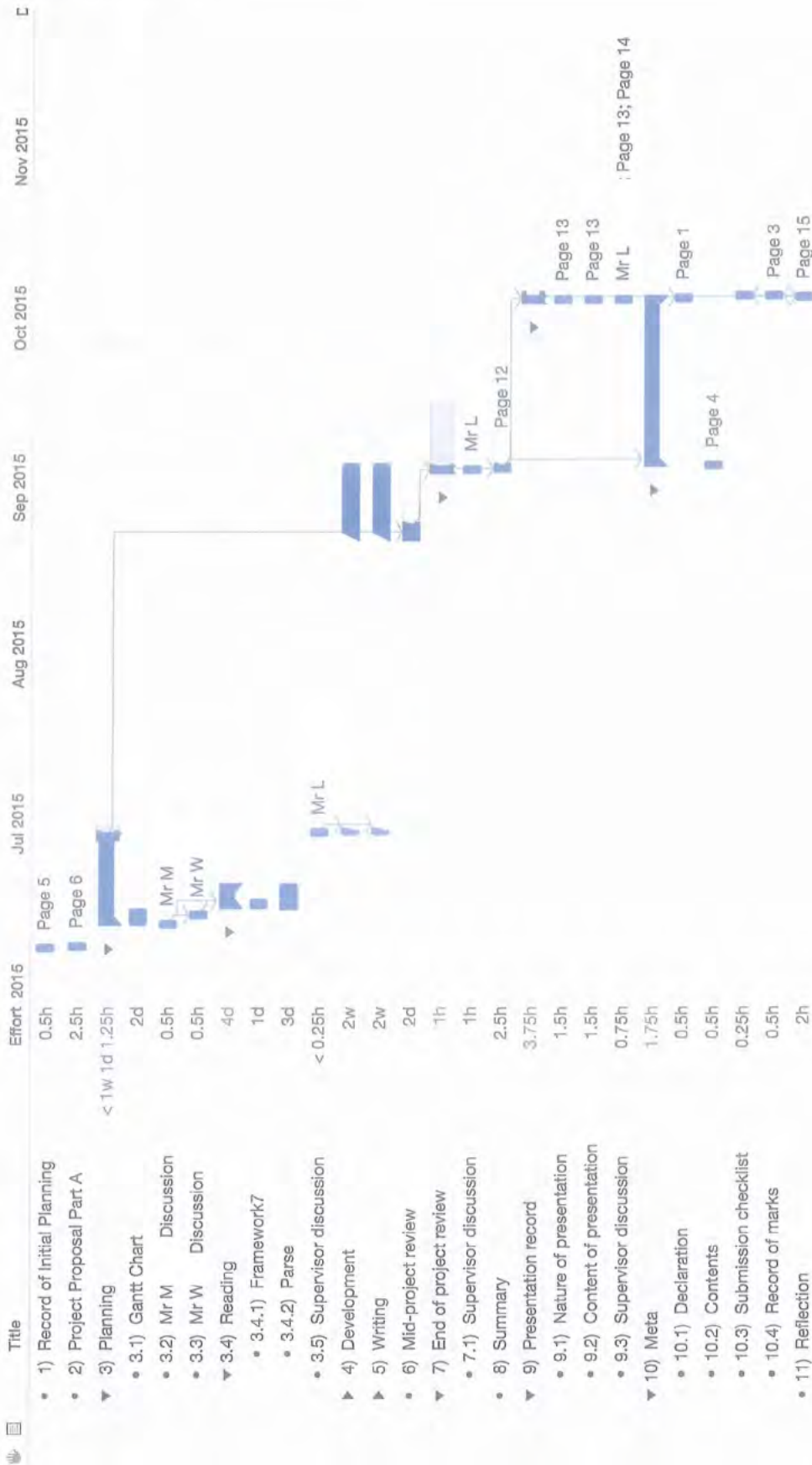
Resources and Research Sources

I will obtain information from numerous sources, such as

- Internet research
- Observation of current systems
- Interviews
- Library documentation

Sources of information, including personal correspondence, is noted in the *Bibliography* section of this report.

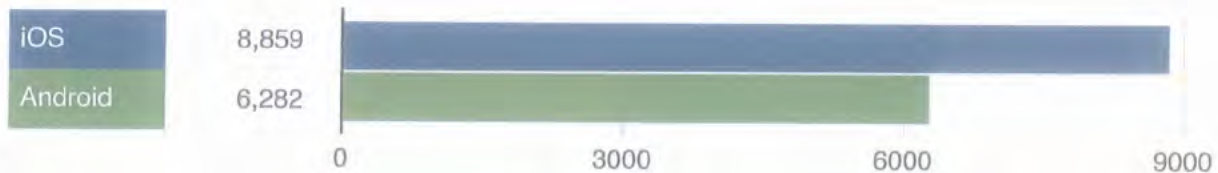
Gantt Chart



Adi mungand

Research Analysis

To decide which platform to develop the app for, I researched which platform was used the most in the to connect to the existing services.⁹ I narrowed this down to just the VLE and just mobile devices, which provided the following data.



This shows that iOS is the most used mobile operating system in the school and therefore the platform which I should focus my app towards. Due to the limited time that I have with this project, I will not create an Android app, however I could expand this in the future to include an Android app which would further extend the app's audience.

Research into the user's requirements¹⁰ revealed the following:

- Students need their school timetable available in the app, so that they do not need to ask a member of staff to print their timetable.
- Students of and parents of such students need to be notified of important school news, such as school closures.¹¹
- Prospective students and parents of such students need to be notified of important school events such as open evenings.¹²
- Prospective students need access to information about the school.¹³

The app will be developed using Framework7 which provides a framework for me to base the app's UI and UX around.¹⁴ Push notifications will be delivered using Parse,¹⁵ as this provides fluid integration between the web interface and the app, allowing staff to easily send notifications to devices.

Solution

UI Draft



The draft UI was based on an iPhone 5s resolution display, scaled @2x.¹⁶

Feedback

I was instructed to direct correspondence regarding feedback to Mr M¹⁷ therefore this design was presented to him and feedback was requested. Mr M liked the design layout and said that "it's easy to use".¹⁸

Development

Based on this feedback, I proceeded to develop the app and its functionality. Using the specification that was decided earlier in the project, I made sure that the app met all its criteria and was functional to the point that the client requirements were met.

Conclusion

The app has been downloaded 566 times by iOS devices.¹⁹ I have received numerous reviews on the App Store, including:²⁰

Great ★★★★★

I go to and this planner helps me a lot

Excellent ★★★★★

Very easy to use.

Based on this evidence, I believe the app to have been a success. The app provides student timetables to their mobile device in a timely manner such that students no longer require staff intervention to find out when and where their lessons are. Furthermore, the ability to send push notifications to devices gives the administration team the ability to provide important notifications to students and parents.

This app has potential for expansion in the future—most notably to provide access to a student's homework list from the VLE,²¹ however this was not possible in the time limit of this project.

Planner App

Log

24/06/2015	Project began Completed <i>Record of initial planning</i> in EPQ form
25/06/2015	Meeting with Mr W Discussed intended project and requirements Completed <i>Solution Overview</i> and <i>Project Proposal Part A</i>
29/06/2015	Completed Gantt chart of project Meeting with Mr M regarding implementation of app and possible implications of app connecting to servers (passed and agreed)
30/06/2015	Meeting with Mr W regarding user requirements
01/07/2015	Reading of Framework7 documentation and Parse Push documentation
15/07/2015	Supervisor discussion Completed <i>Planning</i> in EPQ form
16/07/2015	UI draft completed
17/07/2015	Meeting with Mr M to request feedback on UI draft
18/07/2015	Begin development
07/09/2015	Supervisor discussion Complete <i>Mid-project review</i> in EPQ form
21/09/2015	Discussion with Mr C regarding the new SIMS system which was implemented
07/10/2015	Supervisor discussion Completed <i>End of project review</i> in EPQ form
09/10/2015	Completed <i>Summary</i> in EPQ form
13/10/2015	Completed <i>Presentation record: Nature of presentation</i> in EPQ form Completed <i>Presentation record: Content of presentation</i> in EPQ form
14/10/2015	Supervisor discussion Completed <i>Presentation record</i> in EPQ form
19/10/2015	Presented presentation to supervisor and peers
21/10/2015	Completed <i>Reflection</i> in EPQ form

Bibliography

- ¹ , *Home*
available at <http://www.com/page/default.asp?title=Home&pid=1>
accessed 2015-10-09
- ² Mr M L
personal communication, c.2009-09
- ³ *ePortal* *ePortal login*
available at <https://eportal-login/>
accessed 2015-10-09
- ⁴ , *Add VLE page*
available at <https://github.com/deacons/Planner/commit/0fbc4df>
commit authored 2013-05-13, published c.2013-05-14, accessed 2015-10-12
- ⁵ Capita Business Services Ltd, *Why Choose SIMS For Your School?*
available at <http://www.capita-sims.co.uk/why-sims>
accessed 2015-10-12
- ⁶ Capita Business Services Ltd, *Moving to SIMS*
available at <http://www.capita-sims.co.uk/why-sims/moving-sims>
accessed 2015-10-12
- ⁷ Mr J C
personal communication, 2015-09-21
- ⁸ M house
observation, w/c 2015-10-05
- ⁹ GoSquared, *Trends* -
available at <https://www.gosquared.com/trends/GSN-878850-N>
accessed 2015-09-28
- ¹⁰ Mr G W
personal communication, c.2015-08
- ¹¹ City Council, *School Closures*
available at <https://www.gov.uk/residents/schools-and-education/school-closures/>
accessed 2015-10-13
- ¹² , *6th Form Open Evening*
available at <http://www.co.uk/news/?pid=18&nid=8&storyid=128>
accessed 2015-10-13
- ¹³ *Main Academy*
available at <http://www.co.uk/page/?title=Main+Academy&pid=99>
accessed 2015-10-13
- ¹⁴ iDangero.us, *Framework7*
available at <http://www.idangero.us/framework7/>
accessed 2015-10-13

Planner App

¹⁵ Parse, *Parse Push*

available at <https://www.parse.com/products/push>

accessed 2015-10-13

¹⁶ PixelCut, *The Ultimate Guide To iPhone Resolutions*

available at <http://www.paintcodeapp.com/news/ultimate-guide-to-iphone-resolutions>

accessed 2015-10-13

¹⁷ Mr G W

personal communication, 2015-06-29

¹⁸ Mr R M

personal communication, 2015-06-29

¹⁹ AppFigures, *Sales by Date*

available at <https://appfigures.com/reports/date>

accessed 2015-10-13

²⁰ iTunes Connect, *Planner - Customer Reviews*

available at <https://itunesconnect.apple.com/WebObjects/iTunesConnect.woa/wo/84.0.0.11.5.0.9.3.3.1.0.13.3.1.1.0.1.11.1.7>

accessed 2015-10-13

²¹

available at <https://>

[.com/](#)

VLE

VLE Login

[vle-login/](#)

accessed 2015-10-13

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1, minimum-
scale=1, user-scalable=no, minimal-ui">
    <meta name="apple-mobile-web-app-capable" content="yes">
    <meta name="apple-mobile-web-app-status-bar-style" content="black">
    <title>    Planner App</title>
    <link rel="stylesheet" href="css/framework7.min.css">
    <link rel="stylesheet" href="css/app.css">
    <link rel="stylesheet" href="css/appicons.css">
    <link rel="stylesheet" href="css/font-awesome.min.css">
    <script type="text/javascript" src="cordova.js"></script>
    <script type="text/javascript" src="js/jquery-2.1.3.min.js"></script>
    <script type="text/javascript" src="js/jquery.form.min.js"></script>
    <script type="text/javascript" src="js/jquery.cookie.js"></script>
  </head>
  <body>
    <!-- Status bar overlay for fullscreen mode-->
    <div class="statusbar-overlay"></div>
    <!-- Panels overlay-->
    <div class="panel-overlay"></div>
    <!-- Right panel with reveal effect-->
    <div class="panel panel-right panel-reveal">
      <div class="content-block">
        <p><b>Welcome to the    Planner app.</b></p>
        <p>All content is Copyright                2015, All Rights Reserved, unless otherwise stated.</
p>
        <p>For more information about this app, see the website:                .com/apps/    -planner/</p>
        <p>If you have any questions, feel free to contact me on my website at                .com</p>
        <a href="#" class="close-panel">Close</a>
      </div>
    </div>
    <!-- Views-->
    <div class="views tabs toolbar-fixed toolbar-through">
      <div id="tab-index" data-page="main-index" class="view view-main tab active view-tab-index">
        <div class="navbar">
          <div class="navbar-inner">
            <div class="center sliding">    Planner App</div>
            <div class="right">
              <a href="#" class="link icon-only open-panel"><i class="icon icon-bars"></i></a>
            </div>
          </div>
        </div>
        <div class="pages navbar-through toolbar-through">
          <div data-page="index" class="page">
            <div class="page-content">
              <div class="content-block">
                <div class="content-block-inner">
                  <p></p>
                </div>
              </div>
              <div id="news"></div>
            </div>
          </div>
        </div>
      </div>
      <div id="tab-    -info" data-page="main-info" class="view tab view-tab-info">
        <div class="navbar">
          <div class="navbar-inner">
            <div class="center sliding">    Information</div>
          </div>
        </div>
        <div class="pages navbar-through toolbar-through">
          <div data-page="    -info" class="page">
            <div class="page-content">
              <div class="list-block accordion-list">
                <ul>
                  <li class="accordion-item"><a href="#" class="item-content item-link">
                    <div class="item-inner">
                      <div class="item-title">About                </div>
                    </div></a>
                    <div class="accordion-item-content">
                      <div class="content-block">
                        <p>The                opened in 2007 and was one of the first Academies to
be created. We are the largest, single, sponsored Academy in the country offering a personalised
learning environment for students from the ages of 7 to 18 years old.</p>
                      </div>
                      <div class="list-block">
                        <ul><li>

```



```

        <a href="tda/index.html"><div class="item-content"><div class="item-inner">
            <div class="item-title">more&hellip;</div>
        </div></div></a>
    </li></ul>
</div>
</li>
</ul>
</div>
<div class="content-block-title">Featured</div>
<div class="list-block">
    <ul>
        <li>
            <a href="tda/termdates.html" class="item-link">
                <div class="item-content">
                    <div class="item-media"><i class="fa fa-clock-o"></i></div>
                    <div class="item-inner">
                        <div class="item-title">Term Dates</div>
                    </div>
                </div>
            </a>
        </li>
    </ul>
</div>
<div class="content-block-title">Houses</div>
<div class="content-block" style="margin-bottom: 0;">
    <p>Our Academy is divided into six Houses of about 370 students. The House is the focus
of the relationship between the Academy and the parents of our students.</p>
    <p>Each student is assigned to a House but will be taught in, and have access to, the
facilities in all Houses as they follow their timetable and participate in enrichment opportunities.</p>
</div>
<div class="card card-header-pic card-colleges">
    <div style="background-image: url(img/colleges/arts.jpeg);" valign="bottom" class="card-
header color-white no-border">
        <span style="background-color: rgba(238, 136, 24, 0.9); padding: 1px
5px;">A
    </span>
    </div>
    <div class="card-content">
        <div class="card-content-inner">
            <p>Welcome to A House, the home of Music, Art, Drama and Dance. We are a
creative and passionate team that dream ferociously and work hard to make dreams a reality. Our College
is a caring community that celebrates its wide diversity and embraces opportunities.</p>
        </div>
    </div>
    <div class="card-footer">
        <a href="#" class="link" style="visibility: hidden"></a>
        <a href="tda/colleges/arts.html" class="link">more&hellip;</a>
    </div>
</div>
<div class="card card-header-pic card-colleges">
    <div style="background-image: url(img/colleges/comms.jpeg);" valign="bottom"
class="card-header color-white no-border">
        <span style="background-color: rgba(138, 191, 45, 0.9); padding: 1px 5px;">C
    </span>
    </div>
    <div class="card-content">
        <div class="card-content-inner">
            <p>Welcome to C House. We are home to approximately 360 students and 30 teaching
staff. Our aim is to provide exciting and challenging learning experiences that offer both creative and
academic challenge and equip our young people to be confident communicators and users of language.</p>
        </div>
    </div>
    <div class="card-footer">
        <a href="#" class="link" style="visibility: hidden"></a>
        <a href="tda/colleges/comms.html" class="link">more&hellip;</a>
    </div>
</div>
<div class="card card-header-pic card-colleges">
    <div style="background-image: url(img/colleges/hums.jpeg);" valign="bottom" class="card-
header color-white no-border">
        <span style="background-color: rgba(255, 218, 0, 0.9); padding: 1px 5px;">H
    </span>
    </div>
    <div class="card-content">
        <div class="card-content-inner">
            <p>Welcome to H House. The Humanities team is made up of 25 members of
teaching staff, 3 teaching assistants and 2 administrators. We offer a wide range of subjects across
the year groups consisting of Geography, History, Religious Studies, Business Studies, Economics,
Politics, Psychology and Sociology.</p>
        </div>
    </div>
</div>

```



```

        <div class="card-footer">
            <a href="#" class="link" style="visibility: hidden"></a>
            <a href="tda/colleges/hums.html" class="link">more&hellip;</a>
        </div>
    </div>
    <div class="card card-header-pic card-colleges">
        <div style="background-image: url(img/colleges/math.s.jpeg);" valign="bottom"
class="card-header color-white no-border">
            <span style="background-color: rgba(0, 108, 154, 0.9); padding: 1px 5px;">M    </
span>
        </div>
        <div class="card-content">
            <div class="card-content-inner">
                <p>We aim to present Mathematics in a way that will challenge, engage and enthuse al
of our learners so that they achieve their full potential. We are proud of the achievement of our
students and celebrate success, be it academic, creative or sporting, enthusiastically.</p>
            </div>
        </div>
        <div class="card-footer">
            <a href="#" class="link" style="visibility: hidden"></a>
            <a href="tda/colleges/math.s.html" class="link">more&hellip;</a>
        </div>
    </div>
    <div class="card card-header-pic card-colleges">
        <div style="background-image: url(img/colleges/science.jpeg);" valign="bottom"
class="card-header color-white no-border">
            <span style="background-color: rgba(112, 39, 121, 0.9); padding: 1px 5px;">S    </
span>
        </div>
        <div class="card-content">
            <div class="card-content-inner">
                <p>Scientific ideas are essential to understanding the world around us, and science
helps people to be successful – science is important to all of us. Science is also exciting! We hope
all our students will enjoy their time learning with us.</p>
            </div>
        </div>
        <div class="card-footer">
            <a href="#" class="link" style="visibility: hidden"></a>
            <a href="tda/colleges/science.html" class="link">more&hellip;</a>
        </div>
    </div>
    <div class="card card-header-pic card-colleges">
        <div style="background-image: url(img/colleges/tech.jpeg);" valign="bottom" class="card-
header color-white no-border">
            <span style="background-color: rgba(229, 58, 31, 0.9); padding: 1px 5px;">T    </
span>
        </div>
        <div class="card-content">
            <div class="card-content-inner">
                <p>We promote the strength and identity of a house that is proud of its achievements
and its legacy of success and support. All staff are accessible and are mindful of their duties but
have an expectation that each student understands their role and responsibility in their education.</p>
            </div>
        </div>
        <div class="card-footer">
            <a href="#" class="link" style="visibility: hidden"></a>
            <a href="tda/colleges/tech.html" class="link">more&hellip;</a>
        </div>
    </div>
</div>
</div>
</div>
<div id="tab-tda-login" data-page="main-login" class="view tab view-tab-login">
    <div class="navbar">
        <div class="navbar-inner">
            <div class="center sliding"> VLE Login</div>
        </div>
    </div>
    <div class="pages navbar-through toolbar-through">
        <div data-page="login" class="page">
            <div class="page-content">
                <div class="content-block">
                    <div class="content-block-inner">
                        <p style="text-align: center;">Access your timetable<br>by signing in to the VLE</
p>
                        <p><a href="#" class="open-login-screen button button-big">Login</a></p>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>

```

```

<div class="view">
  <div class="page">
    <div class="page-content login-screen-content">
      <div class="login-screen-title"> VLE Login</div>
      <form action="https://portal.peterborough.sch.uk/CookieAuth.dll?
Logon" method="post" id="logonForm" autocomplete="off" onsubmit="return loginStore()">
        <input type="hidden" id="curl" name="curl"
value="Z2FstudentsZ2F_layoutsZ2F15Z2FmobileZ2Fmbllwikia.aspxZ3FUrlZ3DZ252FstudentsZ252FSitePagesZ252FHom
eZ252EaspxZ26MobileZ3D0" />
        <input type="hidden" id="flags" name="flags" value="0" />
        <input type="hidden" id="forcedownlevel" name="forcedownlevel" value="0" />
        <input type="hidden" id="formdir" name="formdir" value="3" />
        <div class="list-block">
          <ul>
            <li>
              <div class="item-content">
                <div class="item-inner">
                  <div class="item-title label">Username</div>
                  <div class="item-input">
                    <input type="text" id="username" name="username" placeholder="Your
username" autocomplete="off" autocorrect="off" autocapitalize="off"/>
                  </div>
                </div>
              </li>
            <li>
              <div class="item-content">
                <div class="item-inner">
                  <div class="item-title label">Password</div>
                  <div class="item-input">
                    <input type="password" id="password" name="password"
placeholder="Password"/>
                  </div>
                </div>
              </li>
            </ul>
          </div>
          <div class="list-block">
            <ul>
              <li><button type="submit" class="item-link list-button">Sign in</button></li>
            </ul>
            <div class="list-block-label">
              <p>Your username and password<br>will be saved on this device.</p>
              <p><a href="#" class="close-login-screen">Cancel</a></p>
            </div>
          </div>
        </form>
      </div>
    </div>
  </div>
</div>
<div class="toolbar tabbar">
  <div class="toolbar-inner">
    <a href="#tab-index" class="tab-link active">
      <i class="icon demo-icon-2"></i>
    </a>
    <a href="#tab-info" class="tab-link">
      <i class="icon demo-icon-1"></i>
    </a>
    <a href="#tab-login" class="tab-link">
      <i class="icon demo-icon-3"></i>
    </a>
  </div>
</div>
<!-- Path to Framework7 Library JS-->
<script type="text/javascript" src="js/framework7.min.js"></script>
<!-- Path to your app js-->
<script type="text/javascript" src="js/app.js"></script>
<!-- Google Tag Manager -->
<noscript><iframe src="https://www.googletagmanager.com/ns.html?id=GTM-NTD989"
height="0" width="0" style="display:none;visibility:hidden"></iframe></noscript>
<script>(function(w,d,s,l,i){w[l]=w[l]||[];w[l].push({'gtm.start':
new Date().getTime(),event:'gtm.js'});var f=d.getElementsByTagName(s)[0],
j=d.createElement(s),dl=l!='dataLayer'?'&l='+l:'';j.async=true;j.src=
'https://www.googletagmanager.com/gtm.js?id='+i+dl;f.parentNode.insertBefore(j,f);
})(window,document,'script','dataLayer','GTM-NTD989');</script>
<!-- End Google Tag Manager -->

```

```
</body>  
</html>
```



```

"use strict";

var appPlanner = new Framework7();
var $$ = Dom7;

// Parse init
Parse.initialize("xi051ucI0Xk3Fq00IeK6x6TEC3yhCPyGdBg1cIE0",
"YAgZScUJmj2k4uakdN2EaAjrj3dkefQfiS2JMFu1");

// Tabs
var mainView = appPlanner.addView( '.view-main', { dynamicNavbar: true });
var tab Info = appPlanner.addView( '#tab-tda-info', { dynamicNavbar: true });
var tab Login = appPlanner.addView( '#tab-tda-login', { dynamicNavbar: true });

// News
$$('#news').load('https://          .com/apps/ -planner/remote/news/news.html #load-news');

var VLE = {};
VLE.login = {
  // Storing username and password in localStorage
  store: function() {
    localStorage.setItem("username", document.getElementById("username").value);
    localStorage.setItem("password", document.getElementById("password").value);
    return true;
  },
  retrieve: function(idUsername, idPassword) {
    document.getElementById(idUsername).value = localStorage.getItem("username");
    document.getElementById(idPassword).value = localStorage.getItem("password");
  },
  done: function(status) {
    // Reset submit button text
    $$('#button[type="submit"]').text('Sign in').removeAttr('style');
    $$('#input[id="curl"]').attr('value', VLE.login.arrayPaths[0]);
    if (status == false) {
      appPlanner.addNotification({
        title: 'Login Failed',
        message: 'Username or password incorrect',
        hold: 2000,
        closeIcon: false,
        closeOnClick: true
      });
    } else if (status == true) {
      appPlanner.closeModal();
    }
  },
  // Run on user log out
  reset: function() {
    displayUser = undefined;
    displayToday = undefined;
    loginParsedTimetableToday = undefined;
    loginParsedTimetableTodaySubjects = [];
    loginParsedTimetableTodayRooms = [];
    loginParsedTimetableTodayTeachers = [];
    loginParsedTimetableTodayPeriod = [];
    displayParsedTimetableTodayListViewRow = [];
  },
  arrayPaths: [
    // Disable mobile
    "Z2FstudentsZ2F_layoutsZ2F15Z2FmobileZ2Fmbllwikia.aspxZ3FurlZ3DZ252FstudentsZ252F5itePagesZ252FHomeZ252EaspxZ26MobileZ3D0",
    // Student home
    "Z2FstudentsZ2F5itePagesZ2FHomeZ252Easpx"
  ]
};

$(document).ready(function(){
  // Show login icon and disable button when login button tapped
  $$('#button[type="submit"]').click(function(){
    // Insert preloader wheel into log in button
    $$('#button[type="submit"]').html('<sub><span class="preloader"></span></sub>');
  });
});

// Run every time VLE tab is shown
$$('#tab- -login').on('show', function(){
  VLE.login.retrieve('username', 'password');
  if (navigator.network.connection.type == Connection.NONE) {
    // All this removes the title from the JS alert
    var iframe = document.createElement("IFRAME");
    iframe.setAttribute("src", 'data:text/plain,');
    document.documentElement.appendChild(iframe);
    window.frames[0].window.alert('No network connection is available. Make sure you are connected to

```

```

Wi-Fi or a mobile network.');
```

```
    iframe.parentNode.removeChild(iframe);
```

```

  }
  $('form').ajaxForm(function(a) {
    // Notification if credentials are incorrect
    if ($(a).find('.wrong:first').text() == "You could not be logged on to Forefront TMG. Make sure that
your domain name, user name, and password are correct, and then try again.") {
      VLE.login.done(false);
    } else {
      // No immediate error, move on. Second path & resubmit.
      $('input[id="curl"]').attr('value', VLE.login.arrayPaths[1]);
      $('form').ajaxSubmit(function(b) {
        VLE.login.reset();
        var response = $(b);
        VLE.parse(response);
        VLE.createPage();
        VLE.login.done(true);
      });
    }
  });
});
});
});

// Login screen hides status bar
$$('#login-screen').on('open', function(){
  // Set username/password inputs from localStorage
  VLE.login.retrieve();
  setTimeout(function(){
    StatusBar.hide();
  }, 200);
});
$$('#login-screen').on('close', function(){ StatusBar.show(); });

// For displaying to user, extracted from VLE
var displayUser; // User's full name per top bar
var displayToday; // Today's day from timetable (e.g. "Mon A")
var loginParsedTimetableToday; // Today's periods
var loginParsedTimetableTodaySubjects = []; // Array of subjects today
var loginParsedTimetableTodayRooms = []; // Array of rooms for loginParsedTimetableTodaySubjects
var loginParsedTimetableTodayTeachers = []; // Array of teachers for loginParsedTimetableTodaySubjects
var loginParsedTimetableTodayPeriod = []; // Array of periods for loginParsedTimetableToday
var displayParsedTimetableTodayListViewRow = []; // Array of list view rows to be displayed

// Rows of timetable to be shown on screen
var displayListViewRow = [
  '<li class="item-content">',
  '</div><div class="item-inner" style="',
  '"><div class="item-title">',
  '</div><div class="item-after">',
  '</div></div></li>'
];

// For replacing shorthand lesson titles
var dictSubjects = {
  'FM': 'Further Maths',
  'MAFM': 'Further Maths',
  'STY': 'Study',
  'PDE': 'PD'
};

// Run once second submission is successful
VLE.parse = function loginParseResponse(response) {
  // Remove extra accessibility element from user's name
  response.find('.ms-core-menu-root').first().children(':first').remove();
  // Save user's name
  displayUser = response.find('.ms-core-menu-root').first().text();
  // Check if today has a timetable
  if (response.find('.sor-current:first').children().first().text().length != 2) {
    displayToday = '<div class="content-block-title">' + response.find('.sor-
current:first').children().first().text() + '</div>';
    // Today's timetable
    loginParsedTimetableToday = response.find('.sor-current:first').children().filter(':not(:first)');
    var i;
    for (i = 0; i < loginParsedTimetableToday.length; ++i) {
      // Today's timetable subjects
      if ($(loginParsedTimetableToday[i]).children().filter(':nth-child(2)').contents().text().length !=
1) {
        loginParsedTimetableTodaySubjects.push($(loginParsedTimetableToday[i]).children().filter(':nth-
child(2)').contents().text());
      } else {
        loginParsedTimetableTodaySubjects.push(undefined);
      }
      // Today's timetable rooms
      if ($(loginParsedTimetableToday[i]).children().filter(':nth-
```



```

child(3)').contents().filter('a').length) {
    loginParsedTimetableTodayRooms.push($(loginParsedTimetableToday[i]).children().filter(':nth-
child(3)').contents().attr('href').split('/')[4]));
} else {
    loginParsedTimetableTodayRooms.push(undefined);
}
// Today's timetable teachers
if ($(loginParsedTimetableToday[i]).children().first().text().length != 1) {
    loginParsedTimetableTodayTeachers.push($
(loginParsedTimetableToday[i]).children().first().text().trim());
} else {
    loginParsedTimetableTodayTeachers.push(undefined);
}
// Don't show undefined for undefined
if (typeof loginParsedTimetableTodaySubjects[i] == 'undefined') {
    loginParsedTimetableTodaySubjects[i] = '';
    loginParsedTimetableTodayRooms[i] = '';
}
}
// Today's timetable periods
for (i = 0; i < loginParsedTimetableToday.length+1; ++i) {
    switch (true) {
        case ($(loginParsedTimetableToday[i]).attr('colspan') == '1'):
            loginParsedTimetableTodayPeriod.push('<div class="item-media">' + (i+1).toString());
            break;
        case ($(loginParsedTimetableToday[i]).attr('colspan') == '2'):
            loginParsedTimetableTodayPeriod.push('<div class="item-media" style="line-height: 35px;
padding-top: 0; padding-bottom: 0;">' + (i+1).toString() + '<br>' + (i+2).toString());
            i++;
            break;
        default:
            loginParsedTimetableTodayPeriod.push('<div class="item-media">' + (i+1).toString());
    }
}
// Don't show undefined for undefined
for (i = 0; i < loginParsedTimetableTodaySubjects.length; ++i) {
    if (typeof dictSubjects[loginParsedTimetableTodaySubjects[i]] != 'undefined') {
        loginParsedTimetableTodaySubjects[i] = dictSubjects[loginParsedTimetableTodaySubjects[i]];
    }
}
// Construct list view row
// if check that there are any lessons obtained
if (loginParsedTimetableToday.length != 0) {
    for (i = 0; i < loginParsedTimetableToday.length; ++i) {
        // Right side of list row showing room and teacher
        var displayListViewRowRight;
        if (typeof loginParsedTimetableTodayRooms[i] == 'undefined' && typeof
loginParsedTimetableTodayTeachers[i] == 'undefined') {
            displayListViewRowRight = '';
        } else if (typeof loginParsedTimetableTodayRooms[i] == 'undefined') {
            displayListViewRowRight = loginParsedTimetableTodayTeachers[i];
        } else if (typeof loginParsedTimetableTodayTeachers[i] == 'undefined') {
            displayListViewRowRight = loginParsedTimetableTodayRooms[i];
        } else {
            displayListViewRowRight = loginParsedTimetableTodayRooms[i] + ' ' +
loginParsedTimetableTodayTeachers[i];
        }
        // Double period lesson
        if (loginParsedTimetableTodayPeriod[i].length == 92) {
            var displayListViewRowVertical2 = 'height: 70px;';
        } else {
            displayListViewRowVertical2 = '';
        }
        displayParsedTimetableTodayListViewRow.push(displayListViewRow[0] +
loginParsedTimetableTodayPeriod[i] + displayListViewRow[1] + displayListViewRowVertical2 +
displayListViewRow[2] + loginParsedTimetableTodaySubjects[i] + displayListViewRow[3] +
displayListViewRowRight + displayListViewRow[4]);
    }
} else {
    displayToday = '';
    displayParsedTimetableTodayListViewRow.push(displayListViewRow[0] + 'Error obtaining timetable' +
displayListViewRow[1] + displayListViewRow[2] + displayListViewRow[3]);
}
} else {
    displayToday = '';
    displayParsedTimetableTodayListViewRow.push(displayListViewRow[0] + 'No timetable today' +
displayListViewRow[1] + displayListViewRow[2] + displayListViewRow[3]);
}
};

// Generate dynamic page
VLE.createPage = function loginCreateContentPage() {

```

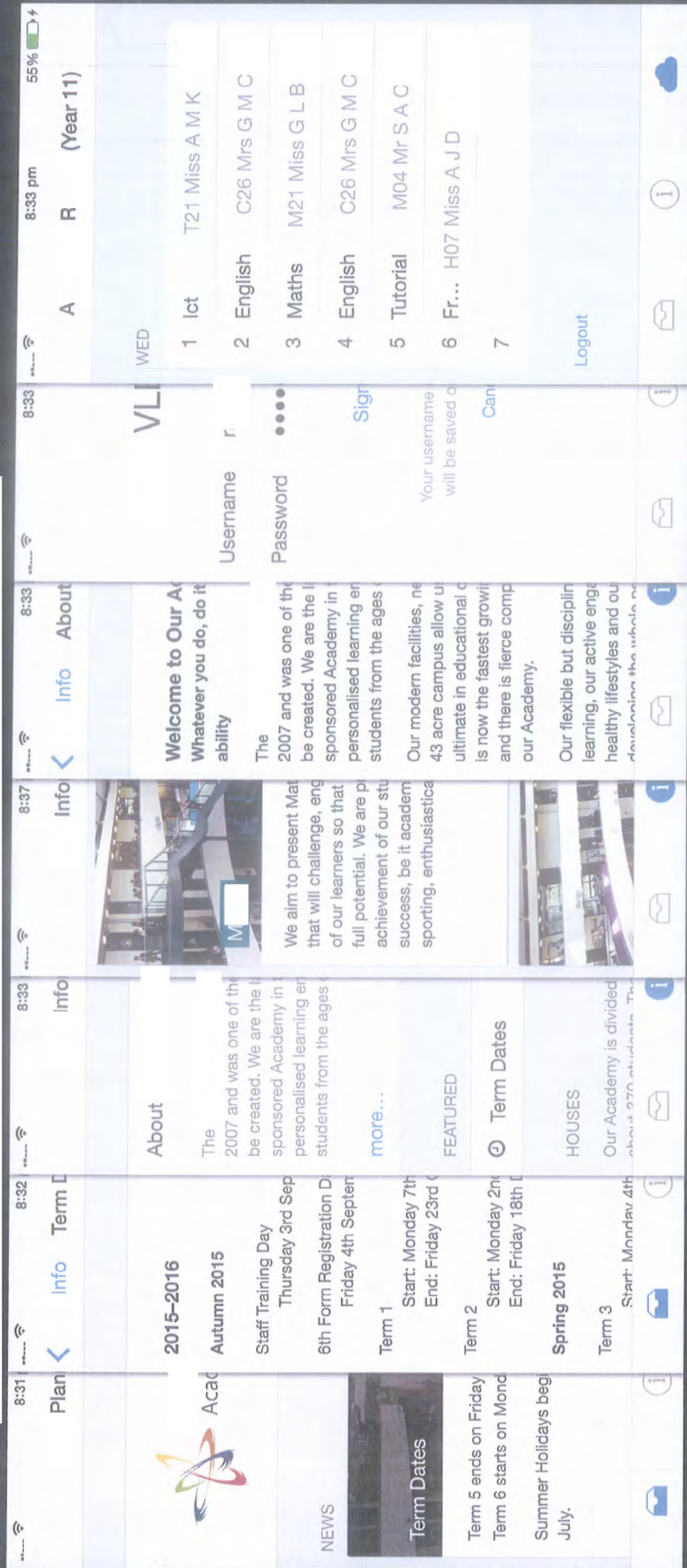


```
tab Login.router.loadContent(
  '<div class="navbar"><div class="navbar-inner"><div class="center sliding">' + displayUser + '</div></div></div>' +
  '<div class="pages"><div data-page="vle-landing" class="page"><div class="page-content">' +
  displayToday +
  '<div class="list-block inset"><ul>' + displayParsedTimetableTodayListViewRow.join('') + '</ul></div>' +
  '<div class="content-block"><a href="#" class="back link"><span>Logout</span></a></div></div>' +
  '</div></div></div></div>'
);
```



EPQ

PLANNER APP



HISTORY

- Planners were issued to students
- Timetable was recorded manually
- Not kept up-to-date
- Discontinued May 13, 2013
- ePortal provided alternative
- Students could log in and access timetable
- SIMS not accessible by students
- Requires staff to print timetable

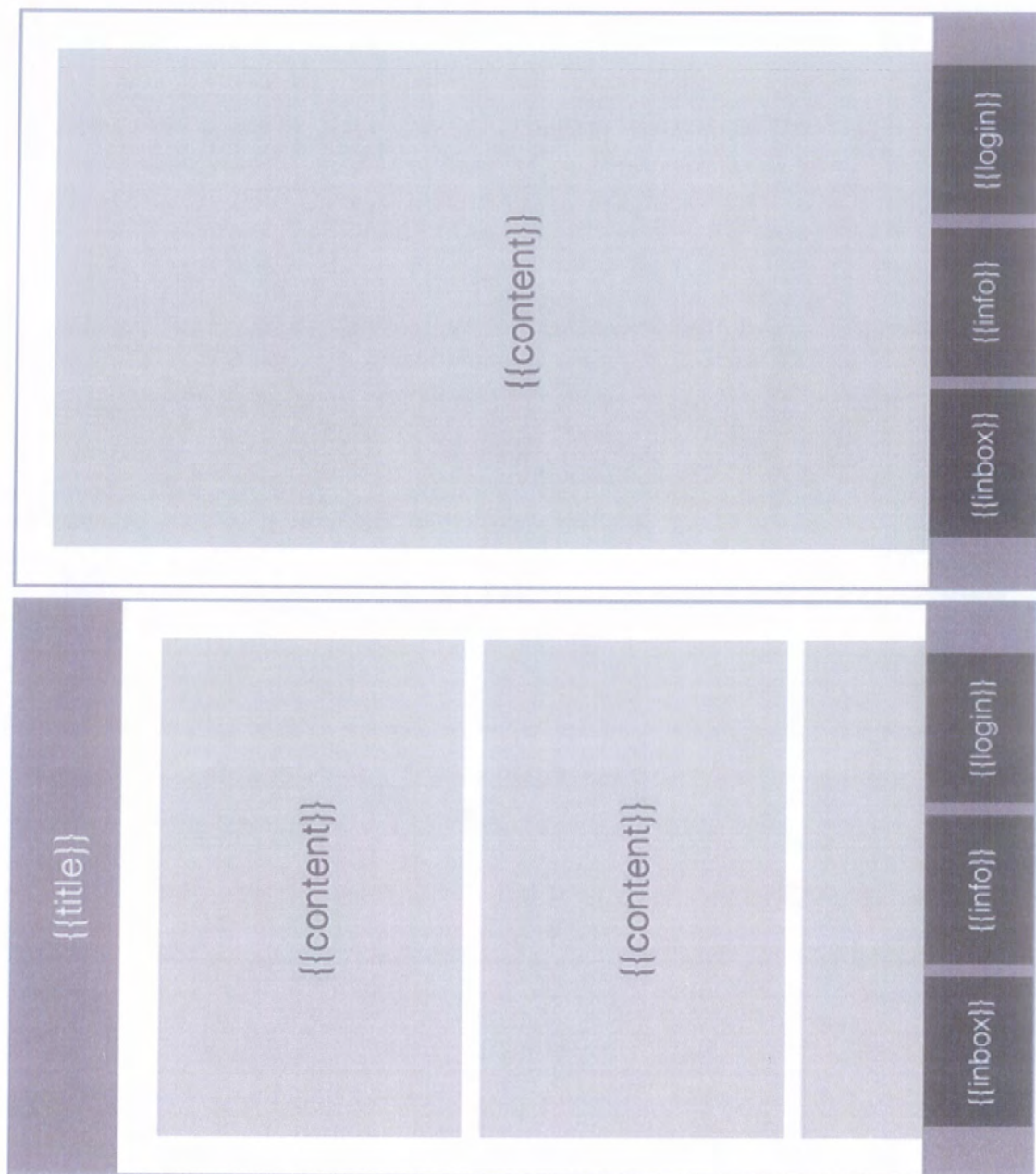
ANNING

Meeting with Mr W

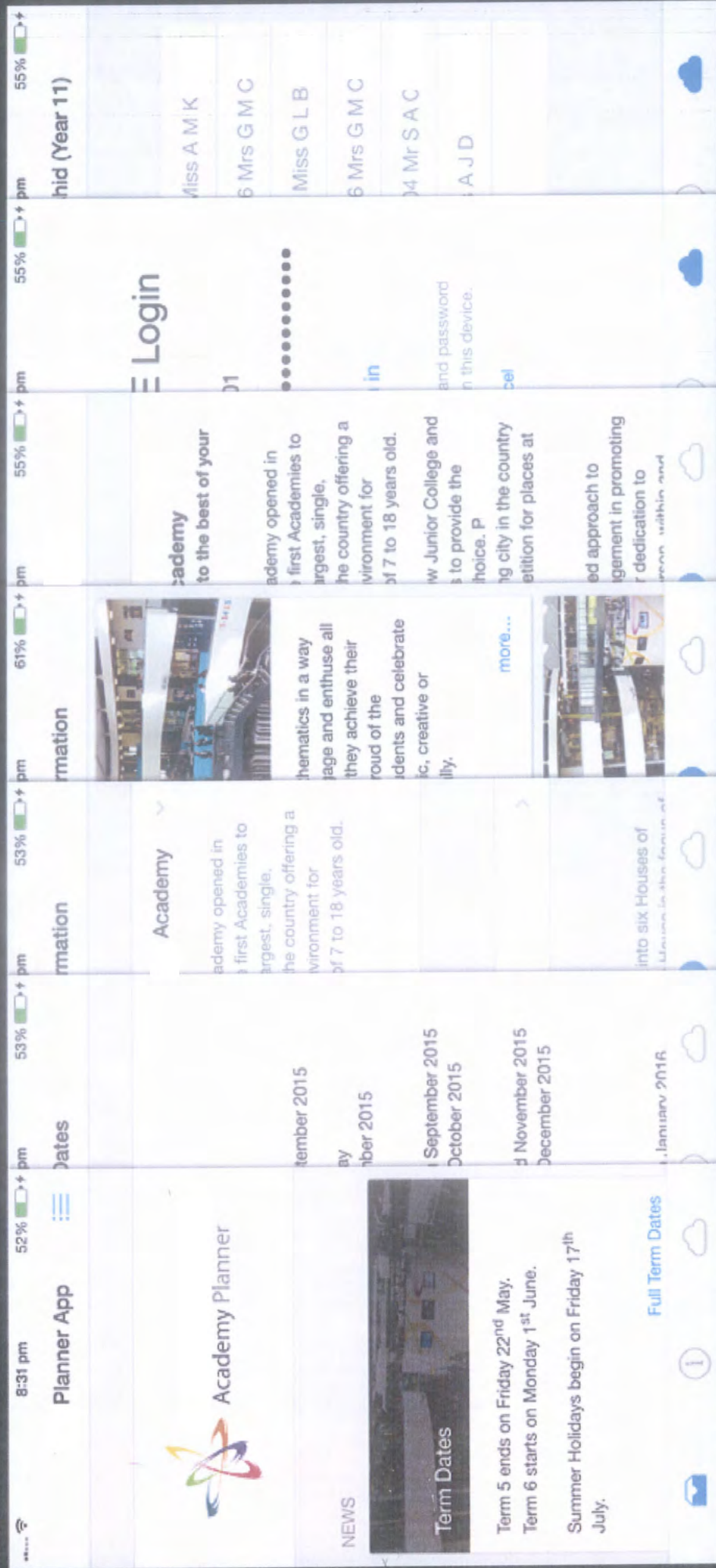
search user requirements

me management





FEATURES



SCHOOL NEWS

8:31 pm 52%

Planner App

Academy Planner

Term Dates

Term 5 ends on Friday 22nd May.
Term 6 starts on Monday 1st June.
Summer Holidays begin on Friday 17th July.

[Full Term Dates](#)

8:32 pm 53%

Term Dates

2015-2016

Autumn 2015

Staff Training Day
Thursday 3rd September 2015

6th Form Registration Day
Friday 4th September 2015

Term 1
Start: Monday 7th September 2015
End: Friday 23rd October 2015

Term 2
Start: Monday 2nd November 2015
End: Friday 18th December 2015

Spring 2015

Term 3
Start: Monday 4th January 2016

8:33 pm 55%

Information

About

The Academy opened in 2007 and was one of the first Academies to be created. We are the largest, single, sponsored Academy in the country offering a personalised learning environment for students from the ages of 7 to 18 years old.

[more...](#)

FEATURED

Term Dates

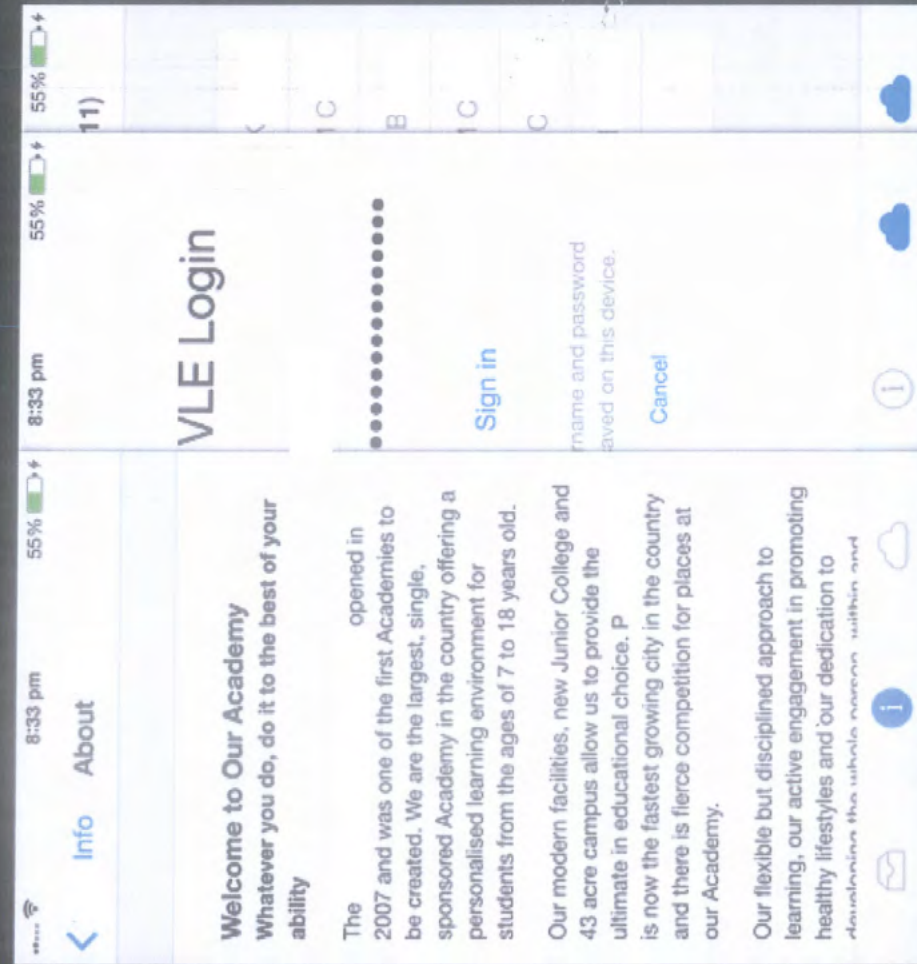
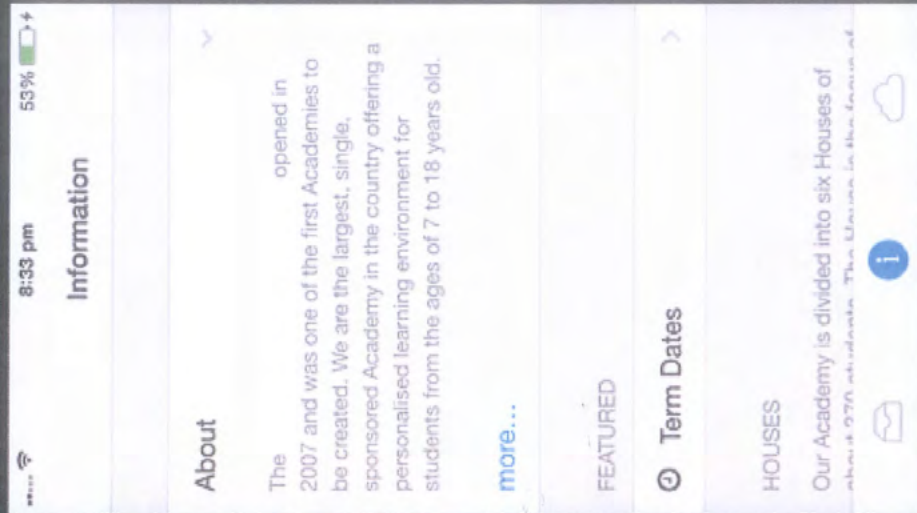
HOUSES

Our Academy is divided into six Houses of about 275 students. The Houses in the form of

[more...](#)

[if your](#)
[d in](#)
[ies to](#)
[fering a](#)
[rs old.](#)
[ege and](#)
[te](#)
[rough](#)
[country](#)
[bes at](#)
[to](#)
[omoting](#)

SCHOOL INFORMATION



TIMETABLE

8:33 pm 55% 

VLE Login

Username

Password

[Sign in](#)


Your username and password will be saved on this device.

[Cancel](#)

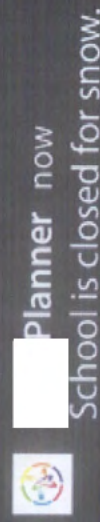
  

8:33 pm 55% 

	A	R	(Year 11)
WED			
1	Ict	T21 Miss A M K	
2	English	C26 Mrs G M C	
3	Maths	M21 Miss G L B	
4	English	C26 Mrs G M C	
5	Tutorial	M04 Mr S A C	
6	Fr...	H07 Miss A J D	
7			
			Logout

PUSH NOTIFICATIONS



The collage displays several mobile application screens:

- Top Left:** A login screen with a large "E Login" text and a password field.
- Top Middle:** A news section titled "Academy" with a photo of a building and text about "first Academies to" and "largest, single, the country offering a" environment for "of 7 to 18 years old."
- Top Right:** A list of names: Miss A M K, Mrs G M C, Miss G L B, Mrs G M C, Mr S A C, and A J D.
- Middle Left:** A screen titled "Academy" with a photo of a building and text about "first Academies to" and "largest, single, the country offering a" environment for "of 7 to 18 years old."
- Middle Middle:** A screen titled "Academy" with a photo of a building and text about "first Academies to" and "largest, single, the country offering a" environment for "of 7 to 18 years old."
- Middle Right:** A screen titled "Academy" with a photo of a building and text about "first Academies to" and "largest, single, the country offering a" environment for "of 7 to 18 years old."
- Bottom Left:** A screen titled "Academy Planner" with a logo and text about "Term 5 ends on Friday 22nd May. Term 6 starts on Monday 1st June. Summer Holidays begin on Friday 17th July."
- Bottom Middle:** A screen titled "Term Dates" with a photo of a building and text about "Term 5 ends on Friday 22nd May. Term 6 starts on Monday 1st June. Summer Holidays begin on Friday 17th July."
- Bottom Right:** A screen titled "Full Term Dates" with a list of dates: "September 2015", "October 2015", "November 2015", "December 2015", and "January 2016".

IMPACT

- 566 downloads

- Average 4.5 ★★★★★

- ★★★★★

"I go to [redacted] and this planner helps me a lot"

- ★★★★★

"Very easy to use."

CONCLUSION

- Overall: success
- Limited time to complete project



8:31 pm

52%

Planner App



Academy Planner

NEWS

Term Dates

Term 5 ends on Friday 22nd May.

Term 6 starts on Monday 1st June.

Summer Holidays begin on Friday 17th July.

Full Term Dates



Any questions?

THANKS

