



**Research Project**

**Report**

**BSc Applied Computing – LP30483A3**

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# Abstract

**Are personal smart devices a viable tool for learning and should they be used within classrooms to better teach students?**

The purpose of this study was to evaluate the use of mobile devices as learning tools both inside and out of the classroom, experiments were conducted in coordination with research to discover if there was a missed opportunity for mobile devices to be more heavily implemented into learning as most mobile devices are banned for use in educational establishments due to the nature of their use.

Research on previous studies looked at the use of personal mobile devices as a tool for learning in different aspects, as many of the studies used the devices in different scenarios. Research for this project shows the potential for learning when using different devices shown by data collected such as surveys and quiz scores.

With conclusive results showing that the use of mobile devices for learning have benefited students as many whom took the quizzes scored highly however many of these students preferred the computer-based alternative because of its features.

With possible implications of the results leading to the establishment of a specific educational revision website for the College, being accessible from both computer and mobile devices to provide a higher level of accessibility to students.

Contents

[Abstract 2](#_Toc514072179)

[Introduction 6](#_Toc514072180)

[Project Overview 6](#_Toc514072181)

[Stage 1 6](#_Toc514072182)

[Stage 2 6](#_Toc514072183)

[Stage 3 7](#_Toc514072184)

[Project Methodology 7](#_Toc514072185)

[Research conducted 7](#_Toc514072186)

[Project Research 7](#_Toc514072187)

[Project Stakeholders 8](#_Toc514072188)

[Literature Review 8](#_Toc514072189)

[Sample groups and type of studies 9](#_Toc514072190)

[Software solutions Used 11](#_Toc514072191)

[Software Development 11](#_Toc514072192)

[Requirements Capture 12](#_Toc514072193)

[Client/Product Requirements 12](#_Toc514072194)

[Aims, Objectives and deliverables 12](#_Toc514072195)

[Project Requirements 13](#_Toc514072196)

[Research Requirements 14](#_Toc514072197)

[Design Decisions and ImplEmentation 14](#_Toc514072198)

[Initial application design 15](#_Toc514072199)

[Website Design 16](#_Toc514072200)

[Database Design 20](#_Toc514072201)

[Final Website Design (Desktop and mobile) 22](#_Toc514072202)

[Testing and Validation 23](#_Toc514072203)

[Project management 26](#_Toc514072204)

[Data collection and Collation 26](#_Toc514072205)

[Data Types 26](#_Toc514072206)

[Collection Methods 27](#_Toc514072207)

[Verification of data 27](#_Toc514072208)

[Data analysis 27](#_Toc514072209)

[Analysis Procedures 27](#_Toc514072210)

[Results 29](#_Toc514072211)

[Initial design survey Results 29](#_Toc514072212)

[Final product survey Results 35](#_Toc514072213)

[Database Score Results 40](#_Toc514072214)

[Interpretation of analysed results 41](#_Toc514072215)

[Survey Results 41](#_Toc514072216)

[Quiz Scores 43](#_Toc514072217)

[Significant issues with results 43](#_Toc514072218)

[Results comparison 43](#_Toc514072219)

[Conclusion 44](#_Toc514072220)

[Further Improvements 44](#_Toc514072221)

[Personal Evaluation 45](#_Toc514072222)

[Sponsor EVALUATION OF Project 46](#_Toc514072223)

[References 48](#_Toc514072224)

[Bibliography 50](#_Toc514072225)

[Appendices 59](#_Toc514072226)

[Section 1 59](#_Toc514072227)

[Use Case Diagram 59](#_Toc514072228)

[Prince2 Project Processes 59](#_Toc514072229)

[Application Flow Chart/Site Map 60](#_Toc514072230)

[Lesson Plan Mobile Phone Use (Sakunthala Y. Ekanayake, 2014) 60](#_Toc514072231)

[Reasons for introducing mobile technology to fieldwork teaching (Katharine E.Welsh, 2013) 61](#_Toc514072232)

[Project Initiation Form 61](#_Toc514072233)

[Section 2. 62](#_Toc514072234)

[User Manual 62](#_Toc514072235)

[Student User Manual 62](#_Toc514072236)

[Quiz Guide 63](#_Toc514072237)

[Navigation Guide 63](#_Toc514072238)

[Teacher User Manual 63](#_Toc514072239)

[Edit Questions Guide 63](#_Toc514072240)

[Navigation Guide 64](#_Toc514072241)

[Database User Manual 64](#_Toc514072242)

[Program Code 66](#_Toc514072243)

[Project Plan 184](#_Toc514072244)

# Introduction

The initial project idea was thought of after discussion started of the different levels of teaching at the College this being for a number of different qualifications with a wide variety of categories. Most jobs require first time workers to have a minimum of Math’s and English C grades meaning many whom are studying on the BTEC courses at the College need to re-take their GCSE’s in order to achieve the C grade needed for job prospects. To help these students I wanted to create a new medium for revising, this being through a dedicated Bath College revision solution which teachers can monitor student’s progression on quizzes and provide relevant study information.

With a product in mind the project was pitched to Stuart King head of Bath College’s Math’s and English department, he liked the proposal however had a number of concerns regarding how information would be stored due to data protection and student privacy. Meaning the project would have to cater to College policies and procedures whilst also being designed in such a way that students would enjoy learning.

The literature review conducted asked the question “*Are personal smart devices a viable tool for learning and should they be used within classrooms to better teach students?”* the review cited supporting research for this project concluded that current policies in place at most educational establishments hindered the use of phones for educational purposes due to student’s tendencies to misuse them, this being because of their multiple uses instant messaging, gaming or music. However, if used in combination with the correct educational application endorsed by the educational establishment with the appropriate teacher training for this application mobile devices could benefit teaching.

## Project Overview

Project plan was changed multiple times due to changes with the product being delivered.

### Stage 1

After investigating app development I chose to use Visual basic C# Xamarin Forms this being because I had developed an application using this software in previous years after having initial compatibility issues between different database add-ons and the latest version of the Xamarin software included with visual basic installation I encountered more and more build errors due to different versions of software as I continued development substantially slowing creation process.

Different database add-ons were used eventually deciding to use the MySQLite, this being because a database could be generated from within the application and stored locally keeping previous quiz scores.

### Stage 2

The project ran into difficulty as technical aspects for the project were set to be minimal by designing just an application. Our tutor suggested a website, application and database to meet technical criteria between myself and Jared which seemed feasible.

New project ideas and proposals were discussed at the next meeting with our client in which they were thrilled at the potential for this package of products. We started designing a Restful API to handle HTTP requests to the database from our app enabling the package to work together providing a new and improved way for students to learn.

### Stage 3

After evaluating issues with security and compatibility it became apparent that the set-up between each product would not be feasible having security issues with handling data from the applications perspective and poor platform support after designing the application for Android. After careful consideration and upon being supplied with a SQL database setup on the College server which was incompatible with the current application, it was deemed necessary to drop the applications development in favour of the website meaning all users regardless of device operating system could use the learning tool. Now with the website as the primary focus design was focused around enabling content to be dynamically viewed making it operational for different devices such as phones and tablets.

(Parfrey, Research Project Log, 2018)

# Project Methodology

***“Project Management Methodology****is a strictly defined combination of logically related practices, methods and processes that determine how best to plan, develop, control and deliver a project throughout the continuous implementation process until successful completion and termination.”* (Mymanagementguide.com, 2018)

The project established the agile project methodology as its framework due to the amount of potential back-tracking needed to better design and implement different aspects of the project, meaning designs were improved upon and changed consistently to align with project/client requirements whilst also following HCI for both mobile and desktop versions of the software created.

## Research conducted

### Project Research

The project consisted of three main types of research:

* Pilot study class interactions and survey
* Discussion with clients/teachers/students
* Database student email and quiz score

The study class selected by our client was a GCSE Math’s class containing 17 students, we asked them to take a survey which would provide us results to better design and create an application based on content they’d like to learn using a mobile device. The survey asked questions about which types of devices students preferred to learn on as well as questions surrounding application use and internet browsing on their mobile devices. This enabled us to gain qualitative and quantitative information to create an application experience which students would enjoy learning from. The survey was created using google forms meaning data analysis techniques used were processed information in the form of charts displaying the most frequent answers chosen alongside the detailed qualitative data for questions such as why applications or internet browsing were preferred.

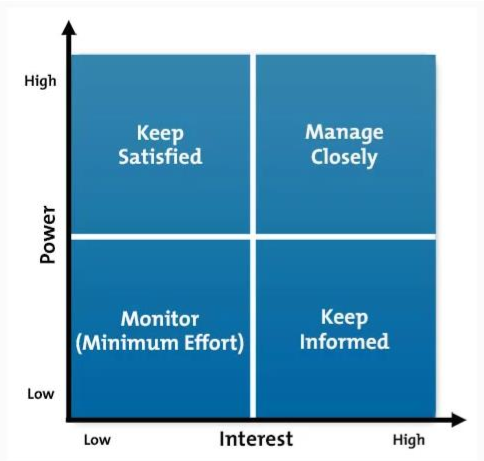
Discussion based research was founded mostly in interactions with Chris George, this affecting the products main features through rational decision making. Collecting information on the students existing tools for learning as well as the potential question topics and designs for the application. Analyzing information discussed afterwards and writing blog posts to show our thoughts based on the meetings outcome.

Database data collected helped to form information on whether students using different devices had a difference in scores on each of the tests, enabling myself and Jared to look at results from the tests alongside survey information to gauge which device was preferred and if the preferred device provided them with a higher score. This was based on the 17 students that took part from our sample group collecting database information based on answers input from the website.

### Project Stakeholders

Research conducted for the projects stakeholders used a stakeholder analysis matrix as shown in the previous Research methods A2 assignment.

Identifying stakeholders is essential to a project as they are affected by your project and final product. Using the stakeholder matrix as shown in within the appendices. The priority of engagement with stakeholders can be analysed, showing that the more important figures that are influenced by the project should be informed and managed much more carefully, whilst keeping other stakeholders informed and engaged with the projects progress. (Thompson, 2018)



The key stakeholders are listed below:

* Stuart and Chris are the main stakeholders due to their importance within the College and access to resources.
* Students and teachers affected by the applications use.
* College officials the application represent the within the app store.
* Myself and Jared the projects developers.

(Parfrey, Research Methods A2)

### Literature Review

Research on the current use of mobile devices within different educational establishments was conducted in the literature review, previous to the projects start meaning an understanding of the uses of mobiles for teaching was already present. With many of the studies examined within the review showing great potential for the use of mobile learning even though they varied largely based on the type of use for the device in each study and their results.

#### Device Misconduct/Distraction

As stated within the literature review device misconduct was minimal in most cases and had little effect on the student’s ability to learn from a lesson unless the device was rung.

In an article by Kevin M. Thomas (2013) the barriers for implementing mobile devices are discussed, with information showing that classroom disruption by mobile phones is more likely due to their ringing. This is backed by evidence from Amanda Lenhart (2010) “64% of teens with cell phones have texted in class; 25% have made or received a call during class time.”

Teachers also voiced concern that mobile devices would distract from core learning processes and raised questions about how meaningful device integration into teaching would be. In a study by Larry D. Rosen (2011) students were asked to reply to text messages whilst within a lecture to review its effects on student distraction and learning. “While 75% of the participants agreed that receiving and sending texts ruins one’s ability to learn from a lecture” Results showed that texting distracted very few from their 30-minute learning session. “Attending to the text message did impact performance, but the impact was quite small due to the minimal nature of the disruptions”.

With minimal misconduct, some studies found that this was purely educational even if found to be working outside of the learning boundaries. “We have had to pull one or two of them up for not following school policy, but the reasons that they were doing it were for educational reasons.” ICT Coordinator School B (Elizabeth Hartnell-Young, 2008)

(Parfrey, Research Methods A2)

Much of the studies also address the fact that devices are ban for their number of uses such as social media, instant messaging, calling and recording all leading to potential violation of establishment policies and other concerning issues such as cyberbullying, therefore showing a number of reasons for their ban across most educational facilities. (Doward, 2015) (Samuel, 2017)

### Sample groups and type of studies

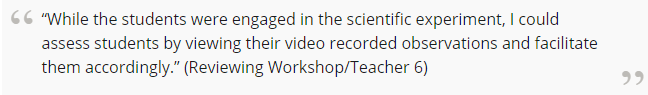
The sample groups for these studies mainly followed the use of a small group of students this being a single or two classes of pupils, collecting data from the students and teachers through interviews and questionnaires after the experiments took place. Analyzing the results against traditional teaching methods used to see the benefits of using a single or multiple devices to improve communication, collaboration and improved practical skills due to the number of capabilities a device has.

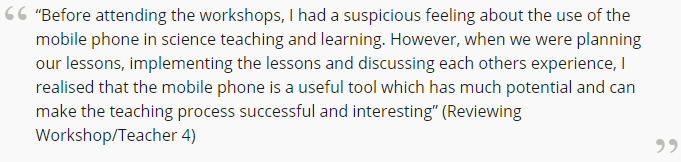
In studies conducted by Sakunthala Y. Ekanayake (2014) and Elizabeth Hartnell-Young (2008) recorded the teaching of Science experiments to a class. Elizabeth’s research focused on three schools which had existing bans on mobile devices, which then permitted the use of mobile phones within classrooms to examine the effects of their use. Students were able to quickly access information surrounding their current lesson from the internet and take photos of science experiments for evidence of their findings. A teacher commented on the experiment: “You always want to do something that you’re not allowed to do and when you’re allowed to do it then the novelty disappears”, showing that in fact due to the nature of their use after the experiment more students thought that mobile devices could be used for learning activities rather than just communication (12% to 43%).

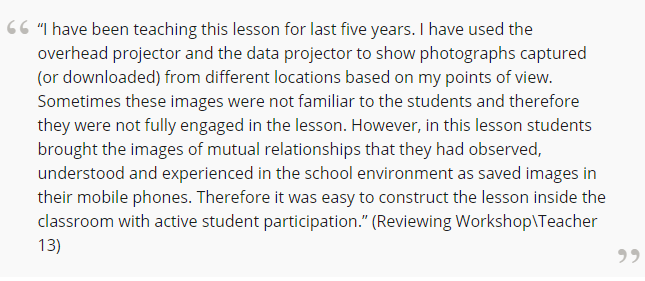
Sakunthala’s recording of the lessons shown in the appendices section 2 saw students using photographs to remember information or identify findings of plants for notes. With evidence from teaching with tablets showing the benefits of student learning as shown in Learning Using Mobile Technologies (2015) showing the reasons for introducing such technologies for fieldwork in appendices section 2. Much of the familiarities for applications and teaching methods can also be used when using personal mobile devices.

(Parfrey, Research Methods A2)

In comparison to my own research conducted for the project using scores and survey data to create a factual view of information, the studies used experiment observations to determine the effectiveness of the new teaching methods followed by interviews with the teachers to determine their view of effectiveness as shown in Sakunthala’s research after interviewing participants. (Sakunthala Y. Ekanayake, 2014)







## Software solutions Used

Different software solutions were used to collect data they are as follows.

* Google Forms (surveys)
* iPhone Recording software (used to record meetings)
* Discussion based notes (with teachers and students)
* Website quiz database information (used to record college emails and quiz scores)

The first being google forms as this allowed seamless collection of information from students with little hassle, providing a class of students with a survey link with well thought out questions designed based on other online research conducted for app creation.

iPhone audio recording software was used to record each of the meeting between myself Chris and Jared. All information on the projects progression and topics discussed at the meetings was then documented and emailed to Chris and then uploaded to the project blog. Audio files were too large to upload to the projects blog however were documented in meeting notes.

Notes from discussions were written in short on our phones notes and then implemented into our product after meetings, writing lists to meet each point before emailing the client with updates and arranging the next meeting time.

The websites quiz was used to collect student scores, each score being stored under the student’s email/id within the database user table enabling us to identify which gender performed better in each of the tasks alongside which device was used to take the quiz.

In contrast to methods of research collection in studies examined within the literature review many of the solutions used are technical, this being similar to the case studies in some aspects such as the use of device video recording as this is comparative to audio recording software used to document meeting notes even if context is different. But also vastly different as many of the scenarios within the studies are years old meaning by this time research collection methods have improved vastly due to the implementation of new and more widely used technical services.

# Software Development

## Requirements Capture

Requirements capture for the project were centered around producing a simple yet fun experience for students whilst learning with the technical aspects required to ensure teachers could use the product with minimal training. The requirements being the fundamental aspects that needed to be implemented to create a solution in which would work for the client and produce research needed for our studies.

Requirements and analysis were conducted in the previous assignment analyzing each of the requirements from the client, stakeholder, project and project resource.

*“No one can afford to wait until the end of the stage of requirements capture and analysis to start planning for the rest of the project. Plans must be drawn well before this point: any well-considered estimate is better than a wild guess or no estimate at all.”* (Prodromos D Chatzoglou, 1997) With requirements being a fundamental mechanism within a project as they determine many other factors such as improved project plans, aims, objectives and deliverables.

### Client/Product Requirements

As the final product for the project changed substantially throughout the requirements changed, however, initial requirements stayed the same ensuring that the client obtained the same outcome although the project changed mediums.

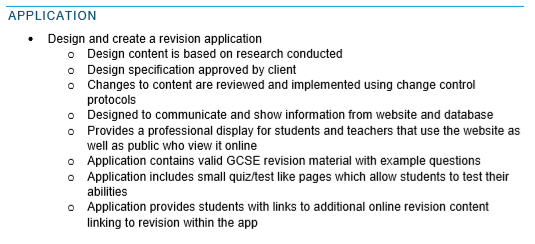
Initial project requirements are taken from the research methods assignment on the different areas of the project. These were required to give an understanding of the aims and objectives of the project:

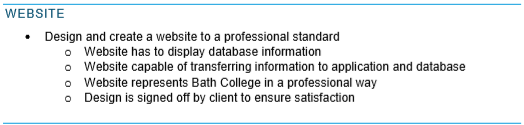
* Client/stakeholder requirements
* Project requirements
* Project resource requirements

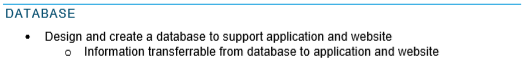
With key project requirements capture being:

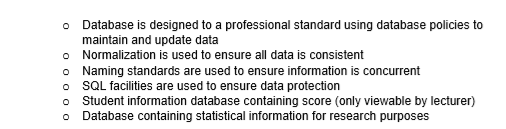
* Meeting notes from meetings conducted with stakeholders such as client, teachers or students.
* Email communications between client and project developers.
* Telephone contact as of when required to discuss meeting times.
* Personal interviews with key stakeholders crucial to the development of the project, feedback will be documented in the discussion of project topics or potential problems.
* Surveys of the stakeholders to better understand the sort of application content they want, along with ideas for the visual appeal of the product.

### Aims, Objectives and deliverables









(Parfrey, Research Project Action Plan - Aims and Objectives, 2018)

### Project Requirements

These requirements were captured following the initial requirements capture through discussion with the client, research conducted shown in the literature review, and surveys taken by the students. Each form of capture allowed us to further our designs and implementation making the process as easy as possible to understand.

Because of changes in the deliverables of the project the requirements were changed to suit the new product being delivered. This being a website capable of each of the points made for the application in a web-based format, changing dynamically to suit the device being displayed on. The requirements for the final solution are the same as initially however in a web format are as follows:

Website:

* Website designed to client specification
  + Secure sign in for students and teachers
  + Customizable GCSE quizzes for students
  + Statistical view of student scores for teachers
  + Question change fields for teachers enabling the quizzes to be updated

Database:

* Database built to support website
  + Tables hold revenant information for students and teachers
    - Login credentials
    - Student scores
  + Designed to a professional standard
    - Normalization
    - Security policies
    - Legal policies
  + Data is secured using data encryption techniques
  + Student scores are only viewable by themselves or their teacher

(Singitam)

The use case diagram shown within the appendices breaks down the fundamental uses of the website, showing the key requirements needed to ensure students can learn from the website whilst teachers have the capabilities to ensure the website can be continually used to revise and learn.

### Research Requirements

The project aimed at gaining considerable research on students, thus making it a requirement that the project collected qualitative and quantitative on students using the revision tool to revise. The requirements capture used for our research were through two main mediums these being:

* Student Surveys
* Database information

Both types of information aided research purposed collecting and using information with the purpose to present ideas against those researched previously to provide a better insight into the research question asked.

## Design Decisions and ImplEmentation

Having signed a project initiation form in coherence with our client the product was designed to follow the Bath College aesthetic with each of the elements for the application and website following their colour scheme, font face and relating images. This ensures that the content built cannot be associated with any other educational establishment whilst following branding guidelines shown in their marketing policy.

Different design decisions were made based on the type of solution, as this was changed during the project the solutions were looked at in terms of feasibility and design choices. Some design decisions were made during the initial design phase, others were implemented whilst creating the project following the agile project methodology. (Thomas Stober, 2010)

### Initial application design

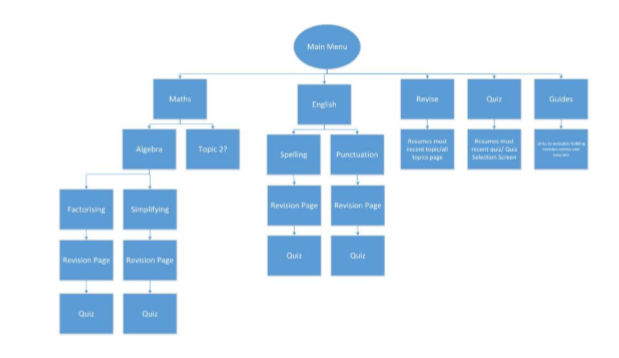
The initial application design was aimed at providing an interactive experience with all revision content within the selected topic being available, following the Bath College colour scheme and brand guidelines policy. They also show how we wanted to learn to be implemented into a fun activity for the user following straightforward video guides and question examples existing on other websites such as YouTube to show guides for the students to increase learning outcomes. (Hokyoung Ryu, 2009) (Bath College, 2015)

As shown in the flow chart below the application was designed to have three key pages.

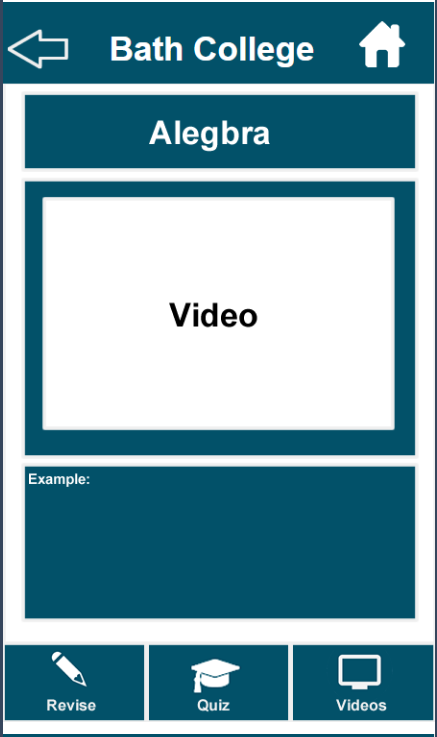
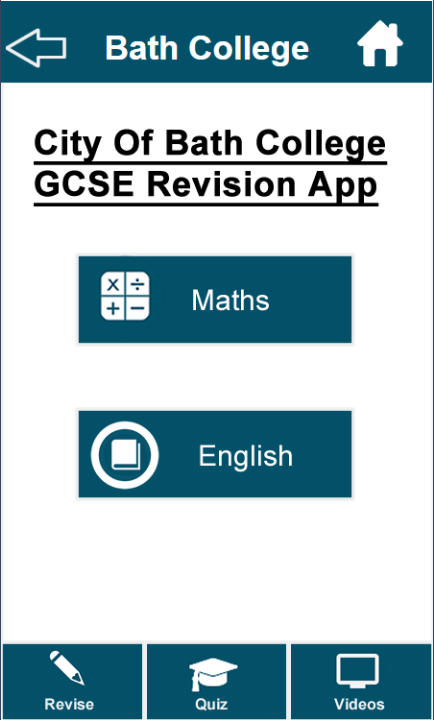
The first being the revision page as shown on the phones screen, designed to show a video demonstration of the question alongside an example question with steps on how to solve the problem.

The second being the quiz pages shown dynamically based on array question content and current topic, with between 5-10 questions for students to revise from.

The final page was the results page showing the questions attempted with each of the correct answers to the questions and a grade based on how well you performed.

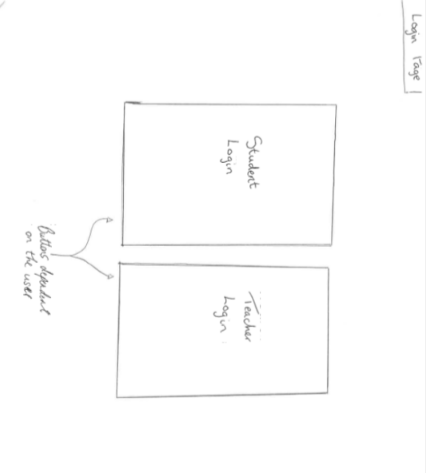


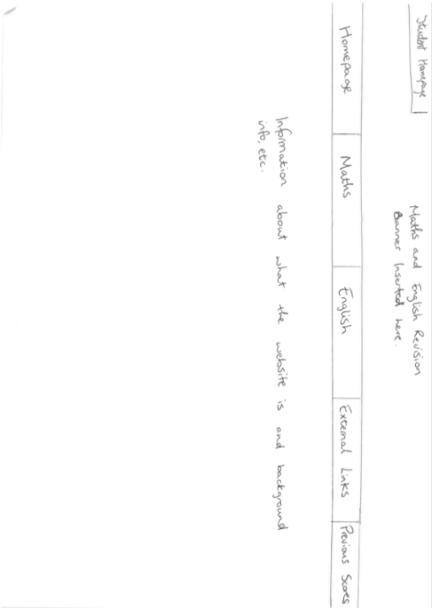
Many of the design decisions also came with additional issues one of the main being the content this being because various legalities meant we couldn’t use outsourced content such as videos, images and questions from other sites. Only permitted content could be used of which is owned by Bath College. And with no specific video or educational content for these topics already owned by the college outside of their online E-learning platform the application had to be designed with questions created by ourselves.

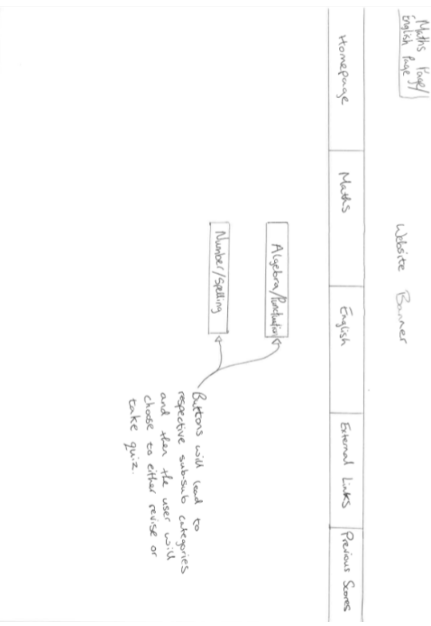


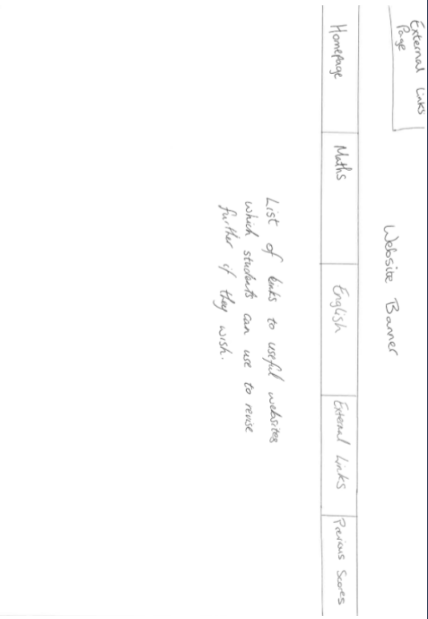
### Website Design

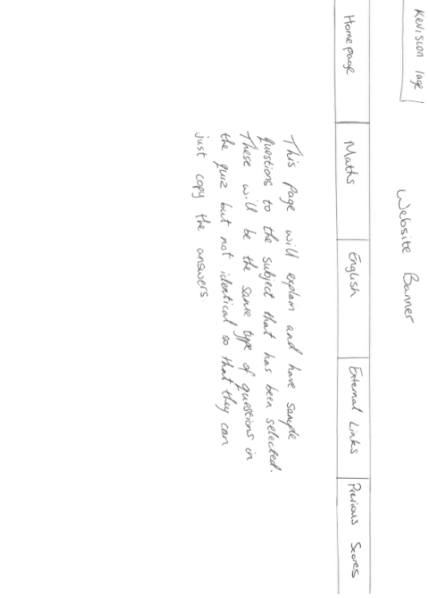
Initial web designs were designed around the purpose of solely viewing and editing questions however after the application was dropped in favor of a web-based solution designs were changed to suit the new pages needed to support the project.

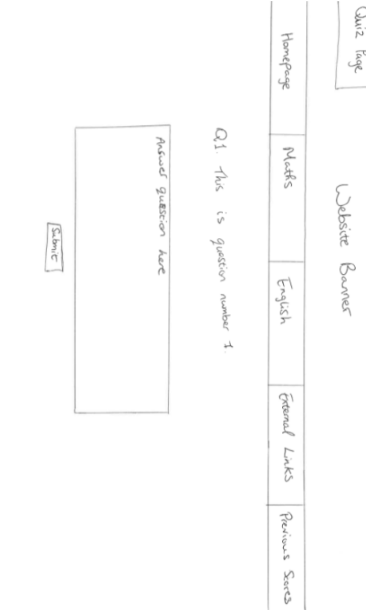


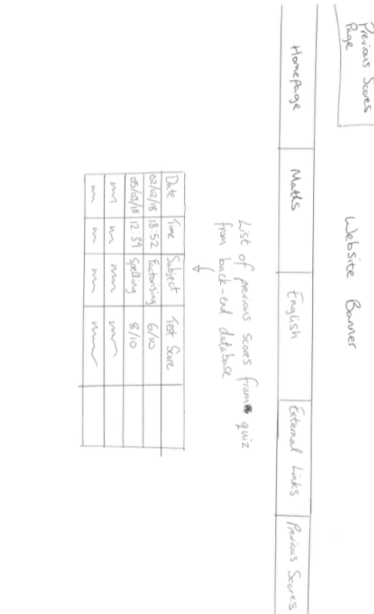


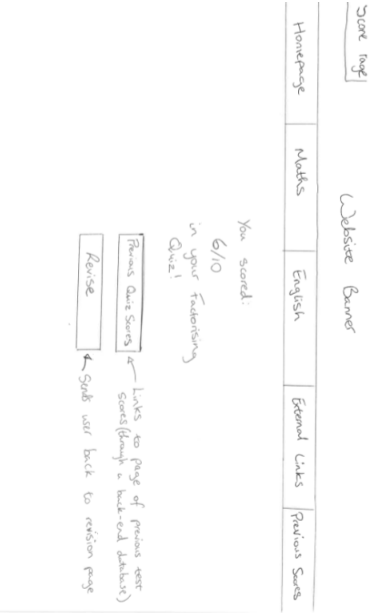


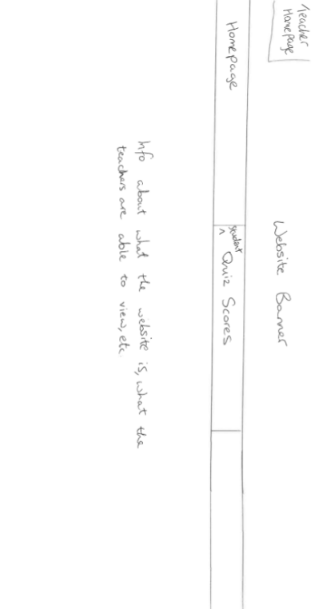


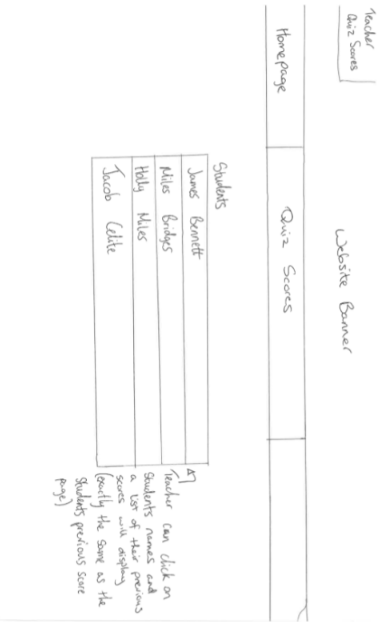












### Database Design

Initial database design was based around using the MySQLite database software creating a database locally on each device's memory to store application information like student scores. Upon receiving a web server with PhpMyAdmin and a MySQL database we created four basic tables.

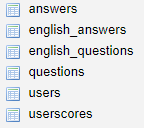
Users: Holds the user login information providing information used to store current session to authenticate logins.

Questions: Holds the questions used to populate the quizzes shown on the website.

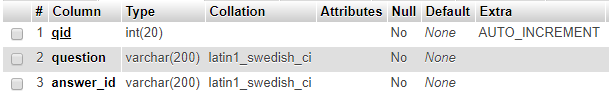
Answers: Holds the answers to the questions alongside the question ID they are related to.

User Scores: Holds the scores for tests along with User ID associated with them.

Final database design includes additional tables which hold question and answers for the English quiz as well as additional fields such as totalques designed to hold the total number of overall questions attempted and profile pic designed to hold a custom user profile picture for use on their profile page showing their scores for quizzes.



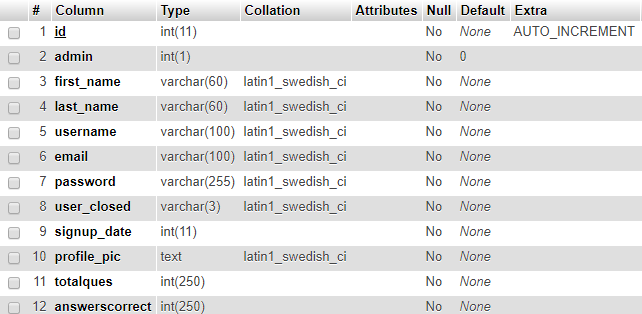
Questions table



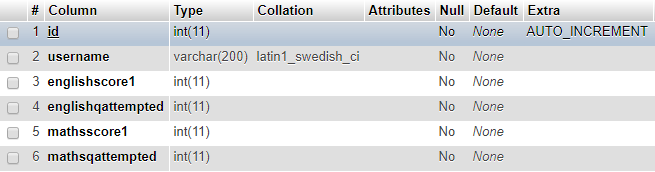
Answers Table



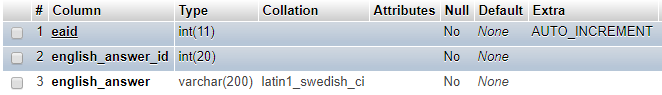
Users table



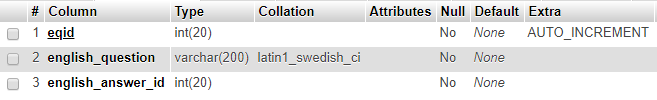
User scores table



English answer table



English questions table

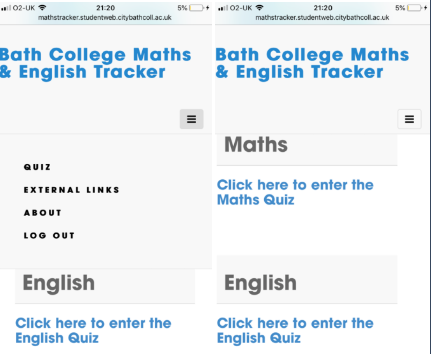


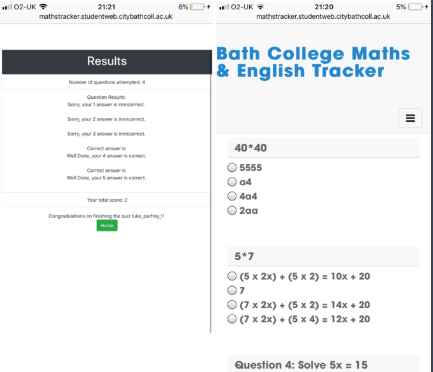
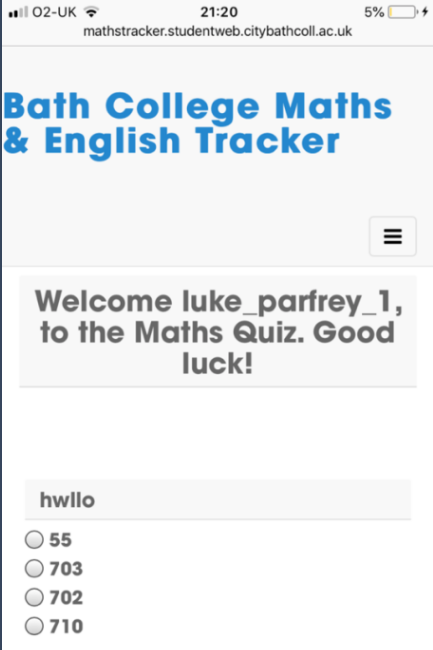
### Final Website Design (Desktop and mobile)

Upon saving the website to your mobile devices home screen the Bath College icon will be displayed for the app image, this was implemented to ensure students recognized the application making its appearance on their phone more welcoming than a website overview image.

The websites navigation bar also is displayed in a drop-down menu so that all pages can be displayed more effectively on different devices.

Each page as shown below changes size to dynamically fit the device the website is being displayed on, this was a key function for our site as much of the research related to the use of mobile device for learning.





## Testing and Validation

Testing and validation cover two of the key areas when designing a website capable of holding large amounts of data, the test table shows all elements of the site that were tested ensuring each passed to a functional level.

|  |  |  |  |
| --- | --- | --- | --- |
| **Website Element Testing** | | | |
| **Element Tested** | **Expected Outcome** | **Actual Outcome** | **Pass/Fail** |
| **Sign In Page (index.php)** | | | |
| Text entry fields | Text can be entered | Text can be entered | Pass |
| Login Button | Loads main page if login info is correct | Loads main page if login info is correct | Pass |
| Register Button | Sends current text box info to database | Sends current text box info to database | Pass |
| Database Connection | All database function work showing new user information upon the register | All database function work showing new user information upon the register | Pass |
| Form display | All information is shown in the form correctly. | All information is shown across the form correctly. | Pass |
| **Home Page (main.php, main2.php)** | | | |
| Math’s and English Links | Links take the user to website clicked | Links take the user to website clicked | Pass |
| Images | Images correctly display based on CSS settings. | Images correctly display based on CSS settings. | Pass |
| **Navigation Bar** | | | |
| Links | Links within navigation bar load page clicked, and have appropriate names for each page. | Links within navigation bar load page clicked, and have appropriate names for each page. | Pass |
| Log Out | Logs user out destroying current session. | Logs user out destroying current session. | Pass |
| Drop down (mobile) | Drop down bar displays on screen that cannot fit all navigation bar content on screen | Drop down bar displays on screen that cannot fit all navigation bar content on screen | Pass |
| Formatting/design | Navigation bar follows Bath College design aesthetic. | Navigation bar follows Bath College design aesthetic. | Pass |
| **Page Footer** | | | |
| Links | Links contained within the page footer link to the appropriate sites. | Links contained within the page footer link to the appropriate sites. | Pass |
| Content format | Content is properly formatted within the footer showing all information within table. | Content is properly formatted within the footer showing all information within table. | Pass |
| **Quiz Page (maths,english.php)** | | | |
| Quiz content/table format | Quiz content taken from database is formatted correctly into tables. | Quiz content taken from database is formatted correctly into tables. | Pass |
| Radio buttons | Radio buttons work across all types of devices and aid calculation of final result**.** | Radio buttons work across all types of devices and aid calculation of final result**.** | Pass |
| Submit button | Submit button query’s database correctly and takes user to results page. | Submit button query’s database correctly and takes user to results page. | Pass |
| **Results Page (check,check2.php)** | | | |
| Username display | Username of the user is correctly displayed at the start of the quiz. | Username of the user is correctly displayed at the start of the quiz. | Pass |
| Table format | Results for each of the questions are shown in a table format. | Results for each of the questions are shown in a table format. | Pass |
| Question answer | Answers to each incorrect question are shown. | Answers to each incorrect question are shown. | Fail |
| Incorrect answer | Incorrect question answers are notified to the user. | Incorrect question answers are notified to the user. | Pass |
| Home button | Home button returns user to the main home screen. | Home button returns user to the main home screen. | Pass |
| **Student Scores Page (student\_results.php)** | | | |
| Table format | All relevant information is called from the database and shown correctly within the table. | All relevant information is called from the database and shown correctly within the table. | Pass |
| Student ID/email | Student email is taken from database and shown alongside scores. | Student email is taken from database and shown alongside scores. | Pass |
| Username | All usernames are taken from database and shown next to correct scores. | All usernames are taken from database and shown next to correct scores. | Pass |
| Scores | All scores are taken from database and shown next to correct username. | All scores are taken from database and shown next to correct username. | Pass |
| **Edit Question Page (edit\_questions.php)** | | | |
| Table format | Table shows all question and answer database information. | Table shows all question and answer database information. | Pass |
| Edit question dropdown | Drop down shows all current questions within database. | Drop down shows all current questions within database. | Pass |
| Edit question text field | Text fields allow input which is then sent to database. | Text fields allow input which is then sent to database. | Pass |
| Update button | Updates database information with current text field input and reloads page. | Updates database information with current text field input and reloads page. | Pass |

One element failed upon testing this was the question answer field, only currently being able to edit one of the four answers for each question of the quiz. This is fixable through a change in answer id field creating an additional drop-down menu to edit each of the currently selected questions answers.

## Project management

The projects management was vital to ensure success with the number of changes made to the product throughout the projects lifecycle, following project management guidelines like PRINCE2 to ensure the project is delivered in a timely manner.

“*The phenomenon of systems still being delivered behind schedule, costing far more to produce than original budget estimates and failing to meet user requirements can be attributed not only to the non-application of principles and methods but also to inadequate project management*” (Prodromos D Chatzoglou, 1997)

Prince2 methodology framework implies that all projects need the following:

* An organised and controlled start, i.e. plan project and organise resources.
* An organised and controlled middle, i.e. keeping projects organised and controlled throughout the project.
* An organised and controlled end, i.e. once the final product is created and the project has finished, ensure client contentment and project closure.

(PRINCE2, 2018)

With 32% of projects overrun due to schedule and/or cost, 76.2% of projects complete, 23.8% projects are cancelled mostly due to issues caused within the design, development, testing and implementation stages planning is essential and should be conducted alongside requirements analysis to ensure the effectiveness of the project. (Dr John McManus)

(Parfrey, Research Methods A2)

# Data collection and Collation

Data collection played a key role in aiding the fundamental research needed to back the projects implementation for students and teachers.

## Data Types

Two main data types were collected each collected through different methods.

Text answers were collected using two surveys, one at the start of development for the project gaining the information needed to create the questions and content needed.

Quiz scores and associated user information were collected and stored within the database for statistical use.

## Collection Methods

To collect the two data types two data collection methods were used.

* Surveys were used to collect text answers from text answer questions and multiple choice inputs.
* Quiz scores were collected using the websites quiz.

Using two different types of data enabled us to use the scores and answers to calculate statistical information like how many users took the test using a mobile device and how this affected their performance.

In relation to the studies researched within the literature review much of the data collected was through interviews with the students and teachers after experiments were conducted as detailed within the research collected by Sakunthala and Elizabeth Hartnell with statistical information relating to the students’ performance, this is much like the experiments this project used however using surveys as the medium for data collection rather than interviews. This can be seen as a disadvantage because we won’t necessarily know the true thoughts or feelings of the stakeholders towards the project but will prove an advantage statistically as information collected will be purely based on their own experience with answers being more truthful.

## Verification of data

Data input into the database was verified through PHP validation function strings ensuring that no data was lost/changed upon calling a update/insert query to the database.

Each of the surveys taken was overseen by a teacher ensuring that the questions were answered sensibly and correctly with myself and Jared being present when the second survey was taken ensuring each of the students signed up for the website and then took the survey after receiving their results for each test.

Data inconsistencies were found as the number of user information in the database did not match the number of students whom took the survey, this was due to some of the student not signing up to the website but using a test account set up in the case they could not use their own login information. Another reason for their inconsistencies was that some of the students could not have signed up but just answered the survey, this was taken into account after we averaged the number of users who used our test login information to sign in.

# Data analysis

Data analysis section discusses the methods of data analysis used on the data collected for project use, using different methods to analyse the data sources based on their data type and collection method.

## Analysis Procedures

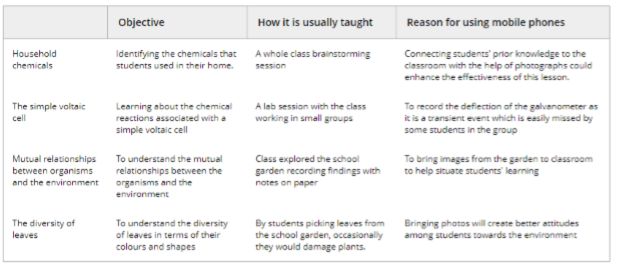
Surveys results allowed us to collect both quantitative and qualitative as some of the questions within the database were multiple choice whilst others were text answer responses.

Google forms allowed us to analyse the results from a statistical standpoint showing graphical charts with the most commonly picked answers, in which we would use to determine any common patterns relating to the responses given mainly based around the device the user used to take the quizzes.

Quantitative data analysis involved the interpretation of the scores within the database aiming to find any recognizable patterns creating a rational finding for the data stored within the database.

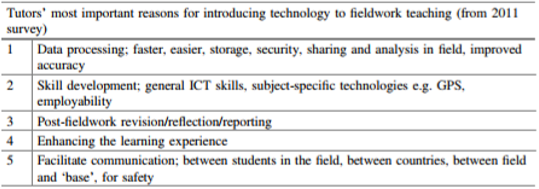
Upon comparing scores to the survey information data could be linked to show a better analysis of the findings allowing critical analysis of the results against those found within the literature review to categorize which device was the preferred choice to learn on, how each device used affected their scores and which device produced the highest average score. (Research Methodology, 2018)

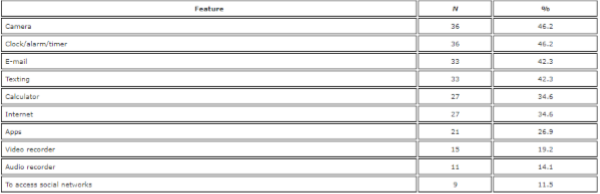
Analysis procedures found within studies examined in the literature review use a number of procedures to analyse results. Sakunthala organized each lesson planned to use mobile devices into a table format comparing the normal teaching methods to how the lesson was taught using a mobile device alongside the reasons for using the device and the technologies used on the device.



This allowed specific questions to be asked in interviews conducted afterwards aimed towards the different uses of the mobile device and how it affected certain areas of the students learning.

Katharine Welsh and Kevin Thomas also used a similar analysis technique using table formats to display information taken from the use of the devices. Katharine determining the reasons behind their use and Kevin identifying which of the features of the mobile device were most commonly used to benefit learning.

  
(Katharine E.Welsh, 2013)



(Kevin M. Thomas, 2013)

Based on the type of use the website created designated time or lesson to use mobile devices for this could be applicable as discussed in the further improvements

would have assigned a use for the device within lessons would be meaningless

as it has already been identified as a revision tool for use inside and outside of the college meaning results analyzed were

## Results

Three results were collected from two different methods:

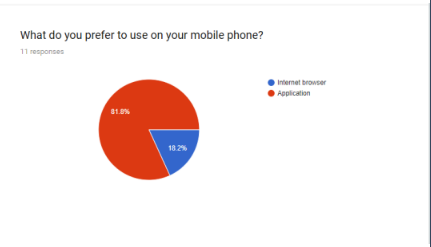
* Initial design survey
* Product feedback survey
* Quiz scores

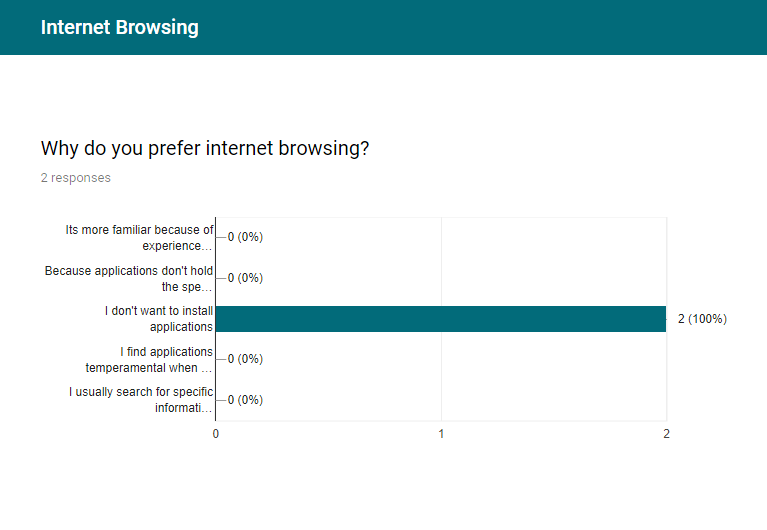
### Initial design survey Results

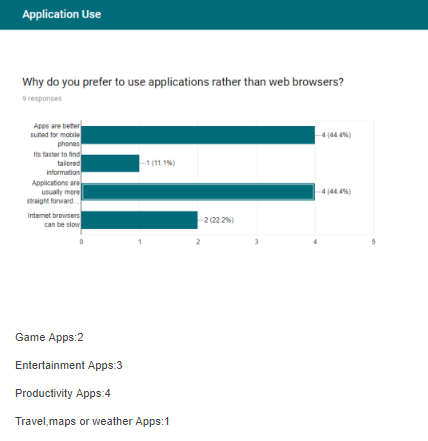
The initial survey was designed to collect information relating to the design of an application, what current apps they use, how they use their mobile device and how they view their device in terms of a learning tool.

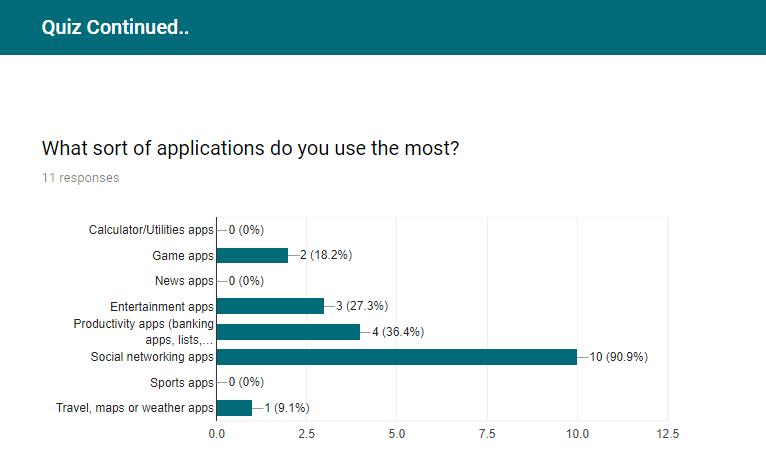
Key information collected from initial survey results:

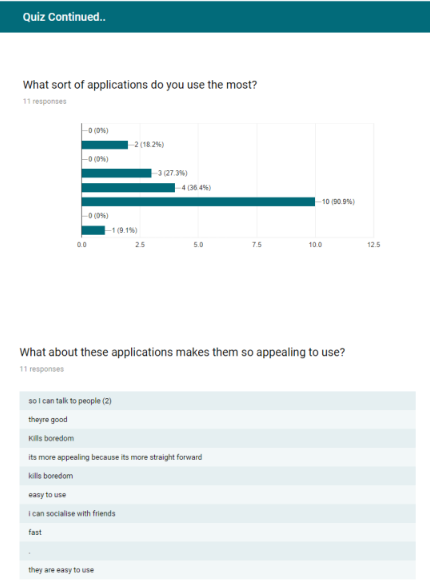
* 5 of the 11 were unsure of if their device was a learning tool
* 3 of the 11 said their device was not viewed as a learning tool
* 3 of the 11 said their device was viewed as a learning tool
* Applications were preferred to internet browsers because they were specifically designed for mobile device use
* Some students didn’t like the idea of an app because they didn’t want to download anything
* Apps were preferred because of their nature of use and specific categories of information
* Most apps used were personal apps
* Most preferred to learn using a computer

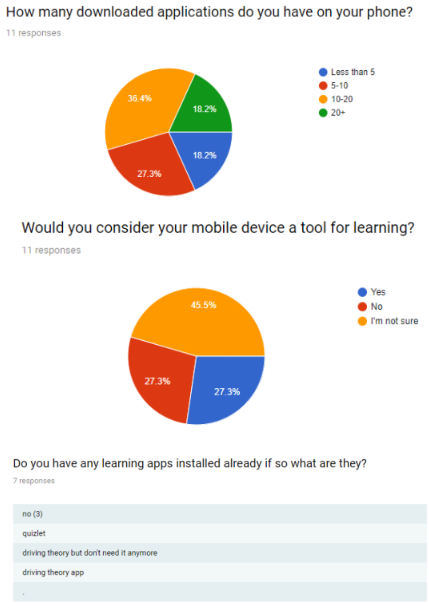


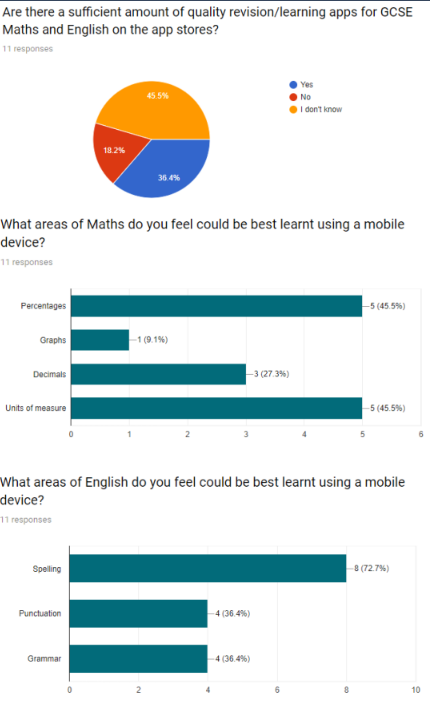


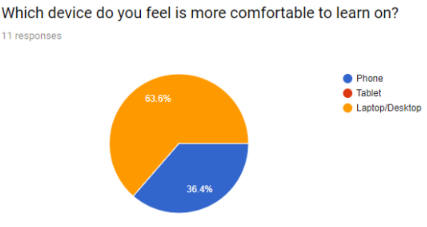










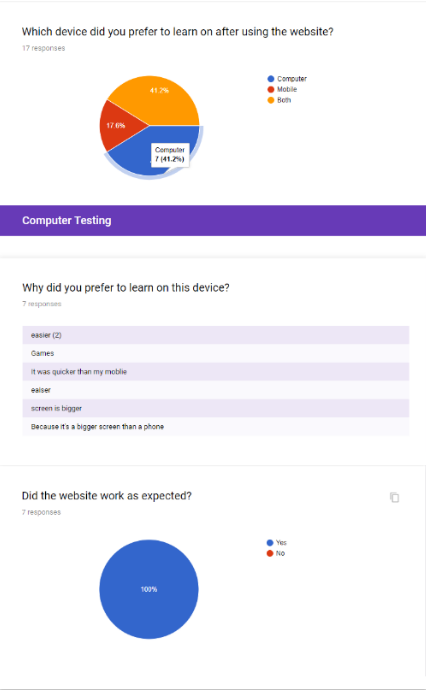


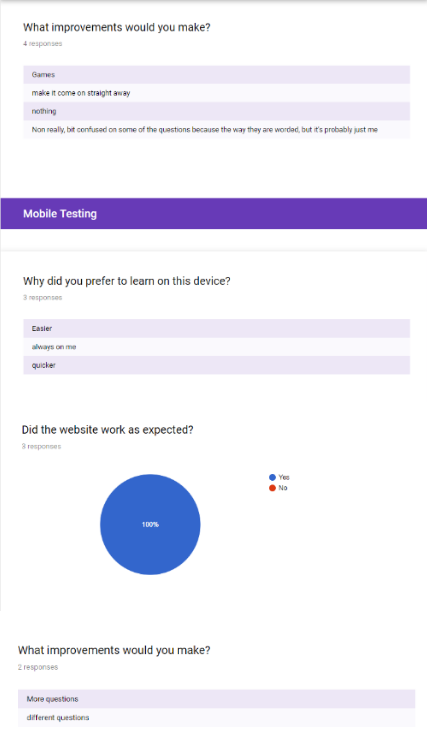
### Final product survey Results

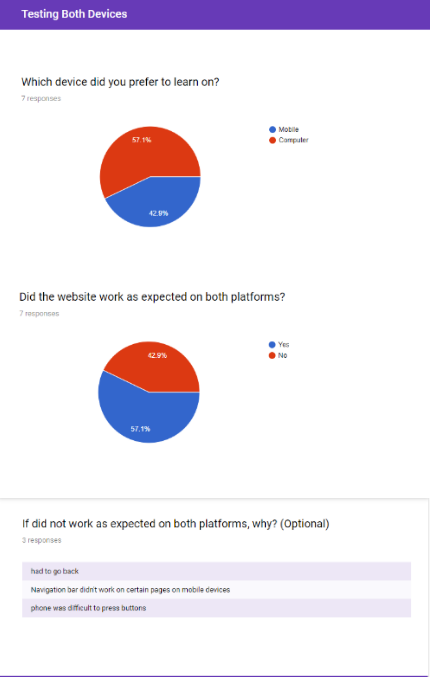
The final survey was taken after students used the website to answer both English and Math’s quizzes and then viewing all the sites content and links to additional learning resources.

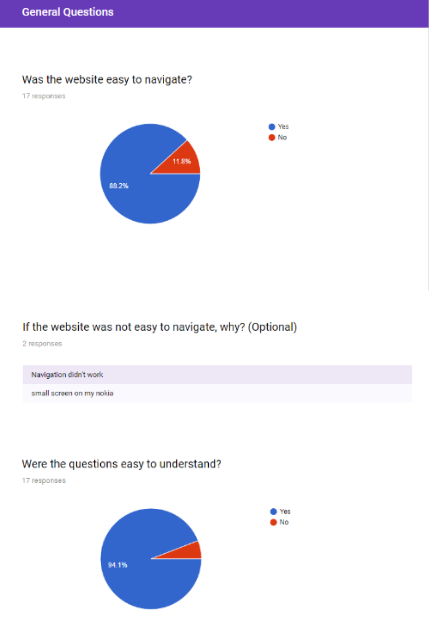
Key information collected from analyzing survey results:

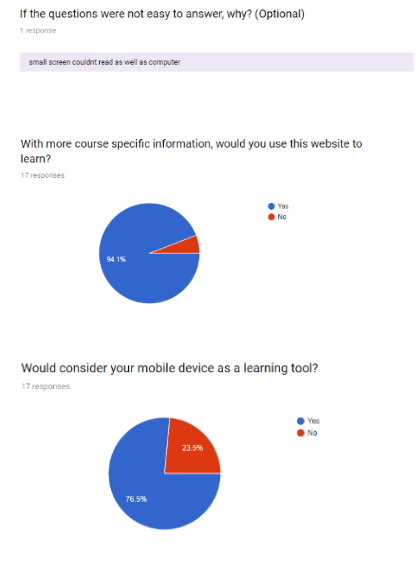
* Most students prefer to use a desktop computer to learn
  + Improved multitasking
  + Bigger screen
* Those who used mobile devices used them because it as more easily accessible
  + Smaller screen made it more difficult to use/read.
* 13 of the 17 students (76.5%) now consider their mobile device as a tool for learning not accounting for the 6 that were initially absent.









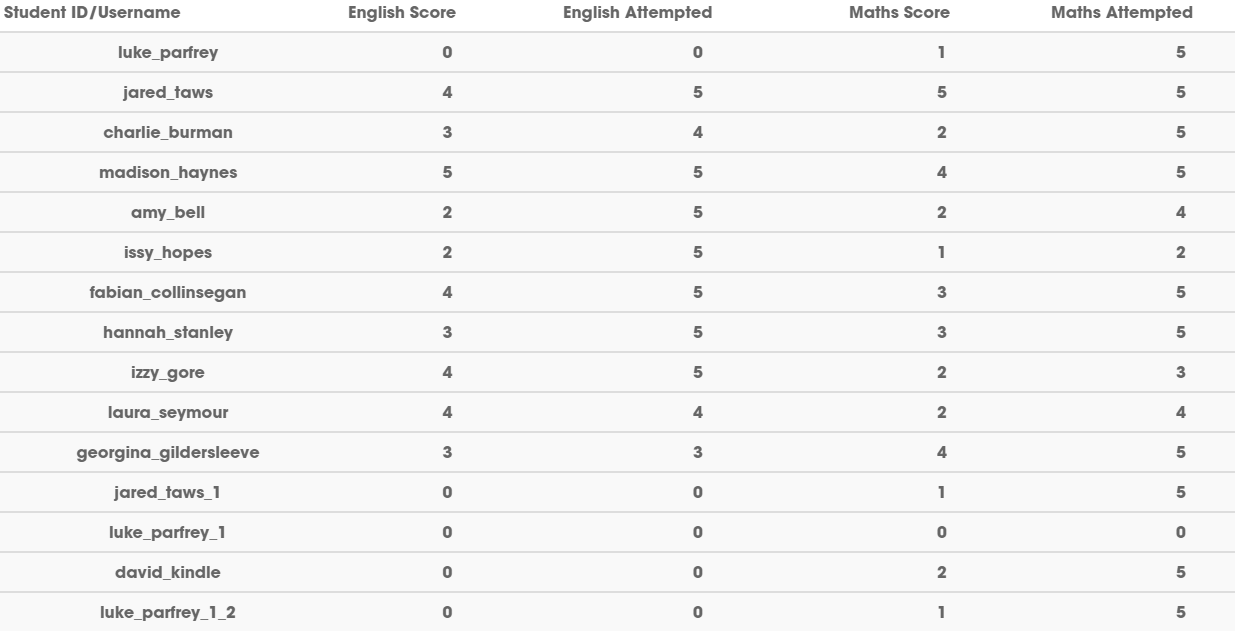


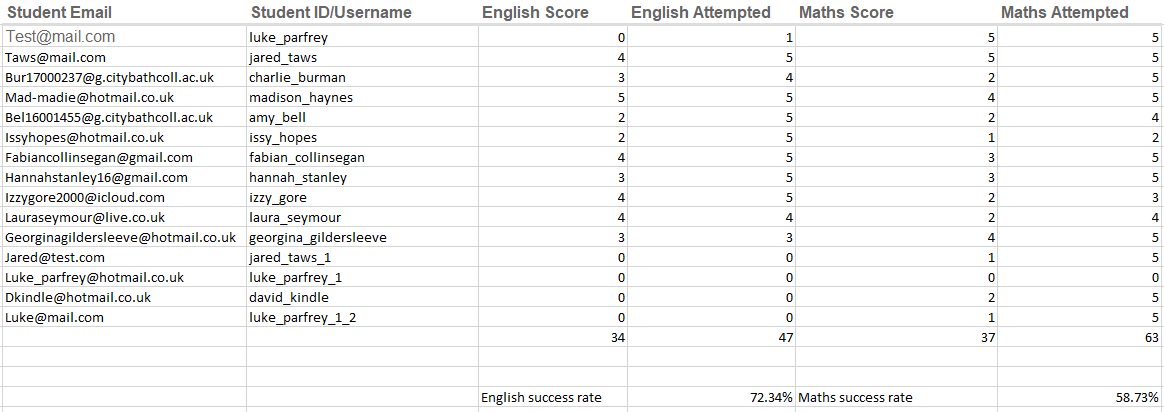
### Database Score Results

Database score results show that 10 of the 17 student participants created their own accounts with others using either my own or Jared’s account to access the websites quizzes. Based on data collected 7 of the 17 participants were female as the majority of male users needed help logging in.

Key information collected from analyzing quiz results:

* 41.17% of the class was female
* 46.66% of students registered and tested were female
* Meaning 53.34% of students tested were male
* English overall success rate: 72.34%
* Math’s overall success rate: 58.73%





# Interpretation of analysed results

Data interpretation covers the analyzed results collected for the project in comparison to the evidence found within the literature review conducted previously evaluating the findings of other research against my own to give a comparative analyzation of the results and how the results affect the question asked.

***“Are personal smart devices a viable tool for learning and should they be used within classrooms to better teach students?”***

## Survey Results

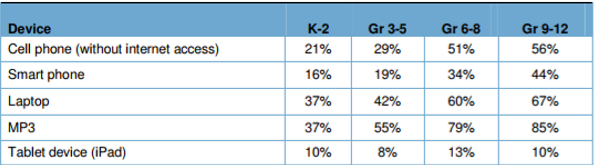
Eleven students took the initial survey giving an insight into how to design the application and what sort of content they wanted to learn, it also revealed what students really thought about using their devices to learn with many being unsure of if they’d use the device to learn. Most students having a number of various informational apps on their phone some of which whom said they already had educational apps on their phones much like the one we designed initially.

With many preferring to use applications over their web browser alternative this being because applications are a tailored experience to the device meaning all content is designed for use on a mobile device. Upon changing the solution to a web browser based product this made mobile device functionality a key aspect of design as ensuring students felt the design was suitable for mobile use as an application would.

Seventeen students took the second survey which showed promising results as many of the participants chose to use their mobile devices to access the website and take the quiz showing enthusiasm towards mobile learning with many of the results based on those who took the mobile section of the quiz saying that they preferred the use of a mobile device due to its accessibility.

However, based on all results many still sided with the traditional computer-based learning approach as it provided a larger screen to read from and also allowed other programs to be used simultaneously which the mobile device could do but not as successfully. Both mobile devices and computers hold the same capabilities being able to make notes or internet search for help but using the computer was preferred due to its size and ease of use. Research from Norman Vaughan’s study concluding that mobile devices were effective for learning, however, less so when used in a classroom environment, this being evident in research conducted for the project as when computers were available they are shown to be a more capable learning tool. (Norman Vaughan, 2015) (Ai-zhen Xie Q. Z.-w., 2011)

Results also showed that many preferred to learn using a computer because of the potential for multitasking using paper-based work located on their desk, or additional programs to make notes on the task. This is useful information as it suggests that many of the students prefer this type of learning because they are used to using the computer to access information as they have grown up using desktops/laptops to learn, with statistics taken from the SPEAK UP research showing most younger students have access to a laptop than a cell phone or smartphone. (SPEAK UP, 2010)



Overall after taking both surveys into account results show that initially 27.2% of students either through their mobile device was not a learning tool or were unsure if it was which improved to 76.5% of students who thought it was after using the website and taking the final survey. This shows a significant increase, however, is likely due to the difference in a number of participants who took the survey and small number of students who took the surveys overall meaning a smaller change could affect the data collected in a larger way.

## Quiz Scores

Quiz scores showed a number of substantial evidence in combination with survey results. English and Math’s scores were calculated using the number of correct questions against those attempted to get an average of the success rate for both Math’s and English.

* English overall success rate: 72.34%
* Math’s overall success rate: 58.73%

The results show that overall the websites quiz section performed as necessary collecting the results of the students as planned, enabling a percentage mark to be made against both types of the quiz.

## Significant issues with results

Three significant issues with the results were identified creating potential flaws within information collected as a result.

**Change in number of survey participants due to class absences**

This changed the overall averages as the number of results for both tests was different meaning information cannot be fully factual based on the difference in answers from those who were absent when the first survey was taken.

**Number of students registered**

Issues with some students logging in meant that many took the tests using accounts created by myself and Jared, this meant not all data was consistent and didn’t show appropriate results for the user logged in.

**No mobile/computer identification for scores**

To effectively compare and analyse results from both computer-based answers and mobile device answers the platform the quiz was taken on must have been recorded alongside the user's scores. This information was taken from the survey but without matching information from the database scores were unable to be associated with success rates based on which platform was used, meaning that no conclusive results can be given to the difference in success to either of the platforms the quiz was taken on.

## Results comparison

When comparing, the results found with those determined within the literature review, it is shown that with the correct implementation of a website/application with educational establishment backing and teacher training it is possible to use mobile technologies as a method of learning for students. With results from this projects research displaying that the use of mobile devices is appropriate for learning as many enjoyed using their devices to learn, however, students ultimately preferred to use the computers to learn whilst they were present.

The question: “Are personal smart devices a viable tool for learning and should they be used within classrooms to better teach students?” was answered with students showing positive views towards mobile acceptance and learning, however when a more traditional or capable piece of technology to available mobile devices are quickly forgotten in favor of these technologies such as computers due to their ease of use, input methods, larger screen, easier functionality and types of software available.

# Conclusion

The project encountered many changes throughout its Lifecycle however following the agile project methodology the project was able to continue with little influence on the research outcomes. The design phase was a success following the College’s brand guidelines and designing a number of potential pages for the application and website.

The implementation stage began smoothly creating a basic application however after issues with the development of the app it was deemed necessary to drop in favour of the website and database combination. This hindered the development of the project considerably setting the project back, but with careful planning and discussion with the client, we proceeded to develop the existing content for the website and database successfully following project management procedures such as PRINCE2 methodologies and planning for the delivery of the product.

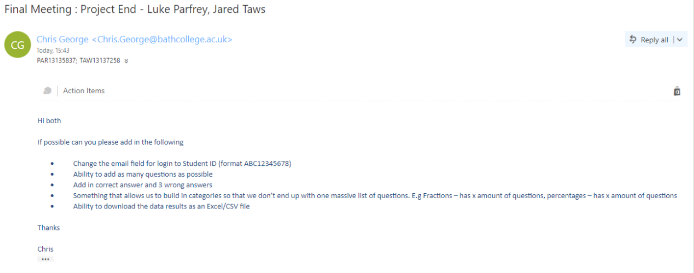
The methods used to collect data for the project were successful having researched potential questions online and reviewing other studies previously shown in the literature review, quiz information was collected effectively however did not gain all information required to properly evaluate the difference in learning potential for both mobile devices and computers therefore only partially being a success due to its inherent flaws.

To improve current results database information on the current type of platform being used must be collected in order to properly associate user scores with the device the quiz was taken on.

The overall product based on current functionality the website met many of the requirements and more even though restricted by time because of previous failures with application development, after final review with our client/sponsor a number of points were outlined as potential improvements to the product so its use could be effectively used within the College curriculum.

## Further Improvements

As outlined in the email from our client Chris George the website requires a number of changes specified to make it a fully functioning site capable for use within the College’s learning environment.



The changes to the email field upon login to the student’s ID would be made as many of the student do not currently know/use their College email making the site easier to use and improving the data collection functionality as many of the current College systems use data relating to student ID rather than email.

The ability to add additional topics and questions to each quiz would be implemented to ensure further use of the website meaning the site could be continually updated from the websites front-end making the ease of use for teachers as simple as possible. This could be implemented by changing current database structure and creating new pages to show current database table topics, with each topic table containing its own questions called upon each page load.

The final improvement of editing questions is straightforward as the question answers need to be called and updated based on the question-answer id from the database, meaning with current setup a new drop-down could be created to edit all potential answers or a new layout could be created to show all information within a table updating the selected data with various buttons.

## Personal Evaluation

I believe the project to be a success however failure to complete the application hindered much of the products potential development. The methods used to collect research were adequate however interviews could have been also used to determine potential design ideas and possible research.

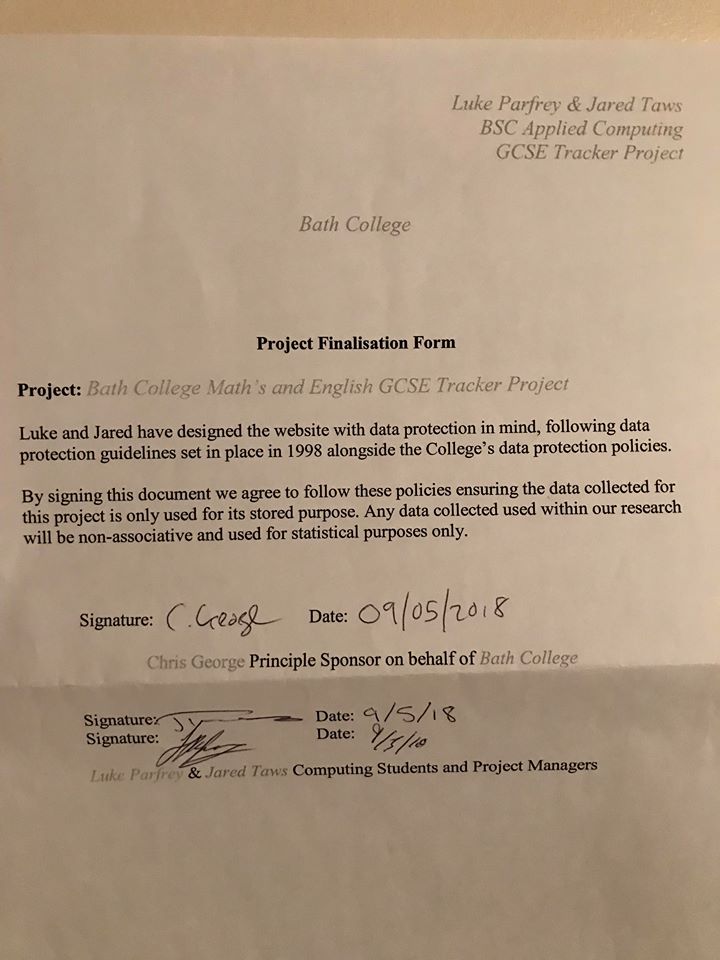
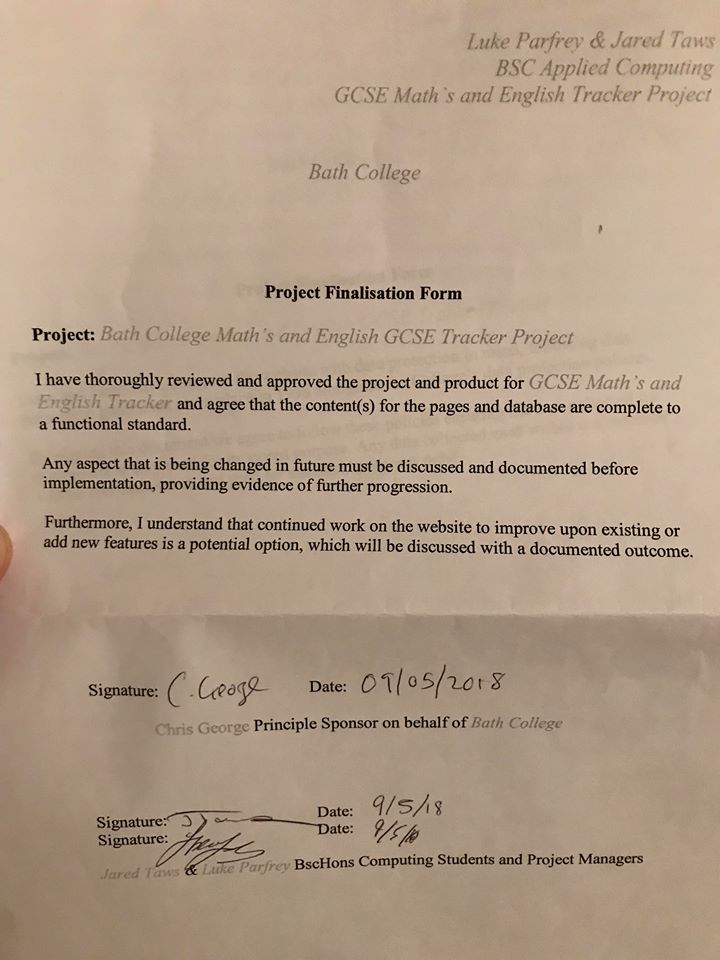
If I was to re-run the project once again I would spend less time developing the failing aspects and more quickly pursue those that are succeeding or have a higher chance of succeeding. Adding more extensive methods of research in which could be of more value when comparing to studies examined within the literature review, improving the data collection aspects ensuring that more specific quantitative data could be collected to better show the difference in achievement. To produce a better array of results a larger number of data could be collected in future to better show outcomes of different methods of teaching and learning using a mobile device.

I learned that to successfully run a project the potential for failure has to be evaluated extensively setting guidelines in place to ensure contingency procedures are followed in the case of a project set back.

## Sponsor EVALUATION OF Project

After the final meeting with our client they were happy with the product and willing to let us continue work improving the potential of the current website. Giving a positive response for the current state of the site and possible for improvements working with myself and Jared in future.

Documents shown below were signed to show client content alongside our correspondence to follow data protection guidelines.



As added by our client the website also has a potential to be used for much more than a revision tool but also a testing platform for new and old students to ensure their Math’s and English skills are to standard. Meaning they can progress to jobs showing they currently still have the knowledge from their Math’s and English GCSE’s.

# References

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workfront. (2016, June 2). *The 6 Project Constraints*. Retrieved February 18, 2018, from https://resources.workfront.com/: https://resources.workfront.com/project-management-blog/the-6-project-constraints

Xristine Faulkner, ,. F. (2005, March). When fingers do the talking: a study of text messaging. *Interacting with Computers, 17*(2), Pages 167–185. Retrieved from http://www.sciencedirect.com/science/article/pii/S0953543804001468

Zahorsky, D. (2017, June 28). *5 Elements of a SMART Business Goal*. (the balance) Retrieved December 7, 2017, from https://www.thebalance.com/: https://www.thebalance.com/elements-of-a-smart-business-goal-2951530

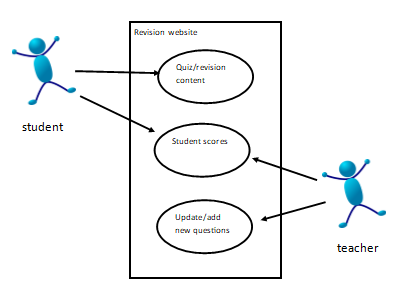
# Appendices

# Section 1

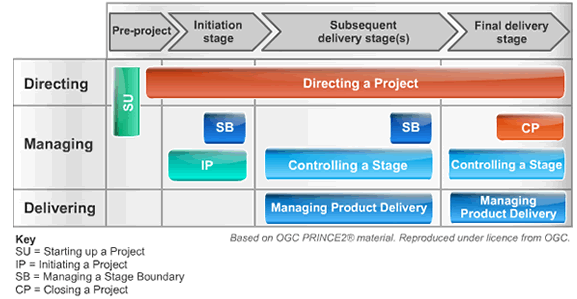
## Use Case Diagram

Successful completion:

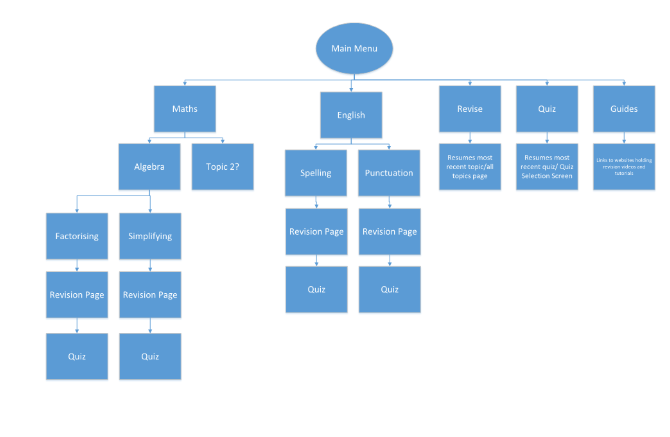
* User signs in and completes quiz material
* Scores are posted to database
* Student can view personal scores
* Teacher can view all student scores
* Teacher can change/add new questions



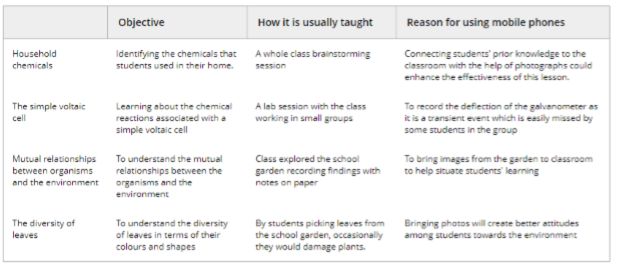
## Prince2 Project Processes



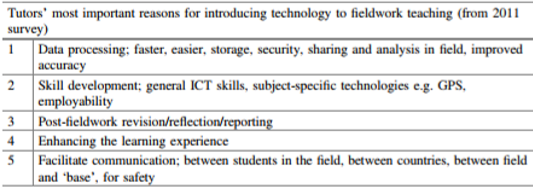
## Application Flow Chart/Site Map



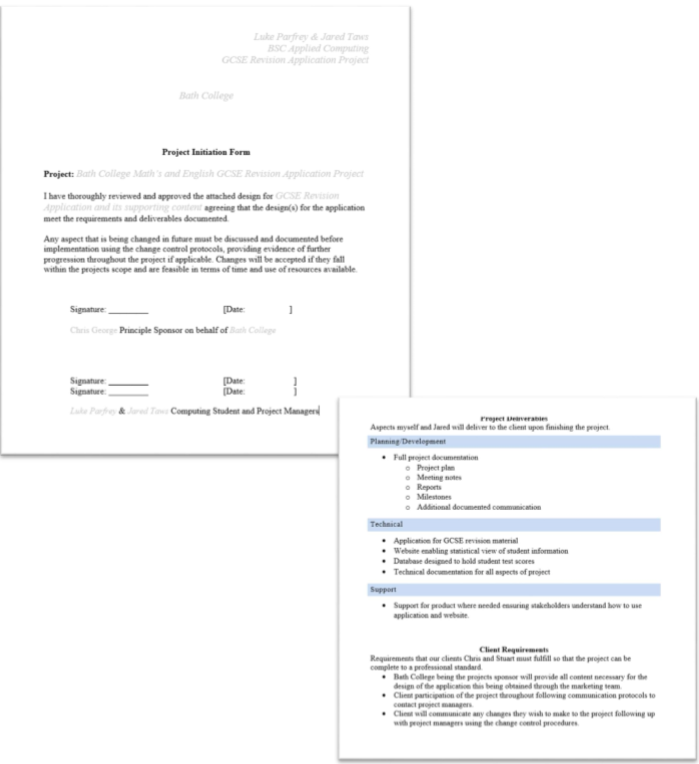
## Lesson Plan Mobile Phone Use (Sakunthala Y. Ekanayake, 2014)



## Reasons for introducing mobile technology to fieldwork teaching (Katharine E.Welsh, 2013)



## Project Initiation Form



# Section 2.

## User Manual

### Student User Manual

1. Open a web browser of your choice (Internet Explorer, Google Chrome, etc.)
2. Enter the following URL into the web browser: <http://mathstracker.studentweb.citybathcoll.ac.uk/>
3. Register your new account by scrolling down to the section named ‘Register’ and entering the relevant information into each field.
4. Once registered, sign in at the top by entering the same email and password that you just used when registering.

### Quiz Guide

1. Once on the main page you will be given the option to either take the Maths or English quiz.
2. Once you have selected the quiz you want to take, read the questions and answer them by clicking on the circle that is next to the answer you think is correct.
3. When all the questions are answered, hit the ‘Submit’ button at the bottom of the page and your results of that quiz will appear. Once you are done looking at them, hit the’ Home’ button to go back to the main page.

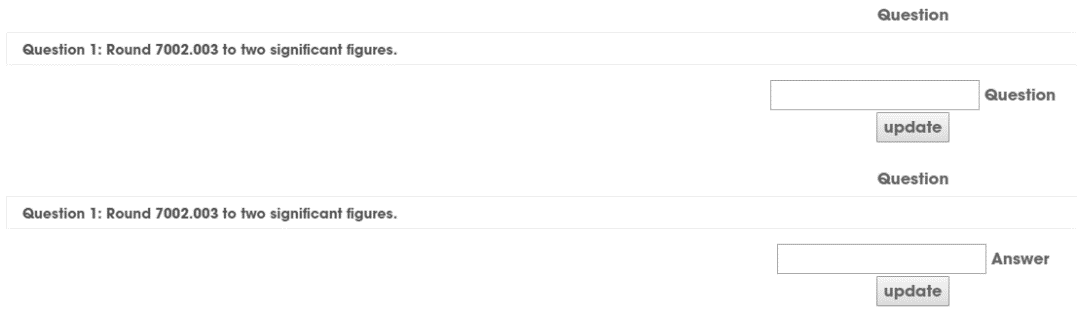
### Navigation Guide

1. Navigating the site is easy, the External Links button will take you to a series of links that you can click on to enter the selected website.
2. The About section details what the website is about and why it was created.
3. To log out just click on the Log Out button in the top right hand corner of the website.

### Teacher User Manual

1. Open a web browser of your choice (Internet Explorer, Google Chrome, etc.)
2. Enter the following URL into the web browser: <http://mathstracker.studentweb.citybathcoll.ac.uk/>
3. Register your new account by scrolling down to the section named ‘Register’ and entering the relevant information into each field.
4. Once registered, sign in at the top by entering the same email and password that you just used when registering.
5. Once on the main page you will be given the option to either check student scores or edit the quiz questions.
6. If the ‘Student Scores’ section is clicked then you will be able to view all student scores on the database.

### Edit Questions Guide



1. If you select ‘Edit Questions’ you will be able to edit all question within both the Maths and English Quizzes.
2. The current questions will be displayed already on the screen and listed which are in the Maths Quiz and which are in the English Quiz.
3. To change the questions, click on the dropdown bar above the current questions and select the one you wish to change. Then type the new question and answer into the respective fields and click the update button below
4. You will then be able to see the new question and answer on the screen along with all the others in that quiz.

### Navigation Guide

1. Navigating the site is easy, the External Links button will take you to a series of links that you can click on to enter the selected website.
2. The About section details what the website is about and why it was created.
3. To log out just click on the Log Out button in the top right hand corner of the website.

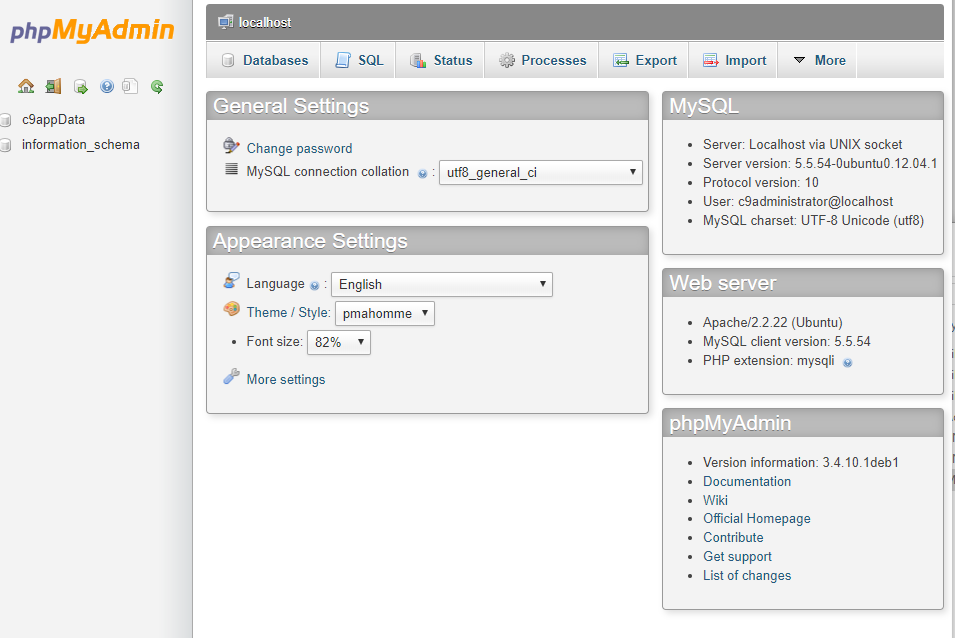
### Database User Manual

1. Open a web browser of your choice (Internet Explorer, Google Chrome, etc.)
2. Enter the following URL into the web browser: <http://mathstracker.studentweb.citybathcoll.ac.uk/phpmyadmin/>
3. Enter the following username and password into the respective fields:

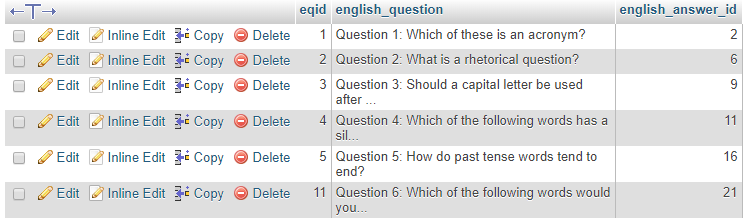
Username: c9administrator

Password: 1want1n

1. Select the ‘c9appData’ database on the top left hand side of the screen, a list of tables should then appear underneath it.



1. The following screenshot shows what the English\_questions table looks like. Click the ‘edit’ button in the top left hand side of the screen to edit the field how you would like.



## Program Code

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bath College Maths & English Tracker - About</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- The above 3 meta tags \*must\* come first in the head; any other head content must come \*after\* these tags -->

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.min.css">

<link href="assets/css/animate.min.css" rel="stylesheet">

<link href="assets/css/animate.css" rel="stylesheet" />

<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

<!-- =======================================================

Theme Name: OnePage

Theme URL: https://bootstrapmade.com/onepage-multipurpose-bootstrap-template/

Author: BootstrapMade

Author URL: https://bootstrapmade.com

======================================================= -->

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main.php">Quiz</a></li>

<li><a href="links.html">External Links</a></li>

<li><a href="about.html">About</a></li>

<li><a href="index.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div id="home">

<div class="slider">

<div id="about-slider">

<div id="carousel-slider" class="carousel slide" data-ride="carousel">

<!-- Indicators -->

<ol class="carousel-indicators visible-xs">

<li data-target="#carousel-slider" data-slide-to="assets/images/icons/navbarlogo.png" class="active"></li>

</ol>

<!-- Image carousel for banner at the top of each page -->

<div class="carousel-inner">

<div class="item active">

<img src="assets/images/icons/navbarlogo.png" class="img-responsive" alt="Bath College Maths and English Tracker">

</div>

</div>

<!--/#carousel-slider-->

</div>

<!--/#slider-->

</div>

</div>

</div>

<section id="about">

<div class="container">

<div class="center">

<div class="col-md-6 col-md-offset-3">

<h2>About Us</h2>

<hr>

<h3>Why did we create this product?</h3>

<p>We are passionate about helping our fellow students to learn and progress and felt a new learning website like this would aid with revision for exams.</p>

<br>

<h3>What does our product aim to do?</h3>

<p>Based on initial research conducted we wanted to give studesnts a College specific resource to learn. Aiming to offer numerous resources to help aid your learning by inlcuding the following:</p>

<p>Links to external websites</p>

<p>Profiles to allow you to monitor your progress</p>

<p>Lecturer Quizes for different topics</p>

<br>

<h3>Creators</h3>

<p>Jared &, undergraduate students who are studying a degree in Applied Computing at Bath College in conjunction with Universtiy of Bath.</p>

<p class="lead"></p>

</div>

</div>

</div>

<!-- Contents of 'About' section -->

<!--/.container-->

</section>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

</div>

<p>Developed by Jared Taws & Parfrey Work-Based Research Project 2017/18</p>

&copy; OnePage Theme. All Rights Reserved.

<div class="credits">

<!--

All the links in the footer should remain intact.

You can delete the links only if you purchased the pro version.

Licensing information: https://bootstrapmade.com/license/

Purchase the pro version with working PHP/AJAX contact form: https://bootstrapmade.com/buy/?theme=OnePage

-->

<a href="https://bootstrapmade.com/">Bootstrap Templates</a> by <a href="https://bootstrapmade.com/">BootstrapMade</a>

</div>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

<li><a href="https://www.facebook.com/BathCollege/"><i class="fa fa-facebook"></i></a></li>

<li><a href="https://twitter.com/BathCollege"><i class="fa fa-twitter"></i></a></li>

<li><a href="https://www.instagram.com/bathcollege/?hl=en"><i class="fa fa-instagram"></i></a></li>

<!-- Social media links to Bath College social media pages 'fa fa-' is in reference to externally stored images of social media icons that have been styled accordingly -->

<table style="width:100%">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

<th>Blog Links</th>

</tr>

<tr>

<td align="left" >Luke</td>

<td align="left" >Parfrey</td>

<td align="left" >PAR13135837@student.citybathcoll.ac.uk</td>

<td align="left" ><a href="https://lukeparfrey.tumblr.com/">Luke Parfrey tumblr</a></td>

</tr>

<tr>

<td align="left" >Jared</td>

<td align="left" >Taws</td>

<td align="left" >TAW13137258@student.citybathcoll.ac.uk</td>

<td align="left" ><a href="https://jaredtaws.tumblr.com/">Jared Taws tumblr</a></td>

</tr>

</table>

<!-- All contents of the footer within this section -->

</ul>

</div>

</div>

</div>

</div>

</div>

</footer>

<!--/#footer-->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->

<script src="assets/js/jquery.js"></script>

<!-- Include all compiled plugins (below), or include individual files as needed -->

<script src="assets/js/bootstrap.min.js"></script>

<script src="assets/js/jquery.prettyPhoto.js"></script>

<script src="assets/js/jquery.isotope.min.js"></script>

<script src="assets/js/wow.min.js"></script>

<script src="assets/js/jquery.easing.min.js"></script>

<script src="https://maps.googleapis.com/maps/api/js?key=AIzaSyD8HeI8o-c1NppZA-92oYlXakhDPYR7XMY"></script>

<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html>

<head>

<title></title>

<!-- Latest compiled and minified CSS -->

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">

<!-- jQuery library -->

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<!-- Popper JS -->

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>

<!-- Latest compiled JavaScript -->

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>

<style type="text/css">

</style>

</head>

<body>

<div class="container text-center" >

<br><br>

<br><br><br><br>

<table class="table text-center table-bordered table-hover">

<tr>

<th colspan="2" class="bg-dark"> <h1 class="text-white"> Results </h1></th>

</tr>

<tr>

<?php

$counter = 0;

$Resultans = 0;

if(isset($\_POST['submit'])){

if(!empty($\_POST['quizcheck'])) {

// Counting number of checked checkboxes.

$checked\_count = count($\_POST['quizcheck']);

//print\_r($\_POST);

?>

<tr>

<td>

<?php

echo "Number of questions attempted: ".$checked\_count;

?>

</td>

</tr>

<td>

Question Results:

<br>

<?php

// Loop to store and display values of individual checked checkbox.

$selected = $\_POST['quizcheck'];

$q1= "select \* from questions";

$ansresults = mysqli\_query($con,$q1);

$i = 1;

while($rows = mysqli\_fetch\_array($ansresults)) {

$flag = $rows['answer\_id'] == $selected[$i];

if($flag){

$counter++;

$Resultans++;

echo "Well Done, question ". $counter ." answer is correct.<br><br>";

}else{

$counter++;

echo "Sorry, your ". $counter ." answer is innncorrect.<br>";

//echo "Correct answer is ".$rows['answer']."<br><br>";

}

$i++;

}

?>

</td>

<tr>

<td>

Your total score:

<?php

echo $Resultans;

}

else{

echo "<b>Please attempt a question.</b>";

}

}

?>

</td>

</tr>

</table>

<?php

$userLoggedIn= $\_SESSION['username'];

$finalresult = "INSERT INTO userscores(username,mathsscore1, mathsqattempted) values ('$userLoggedIn','$Resultans','$checked\_count') ";

$queryresult= mysqli\_query($con,$finalresult);

if($queryresult){

echo "Congratulations on finishing the quiz ".$userLoggedIn."!";

}

?>

<br>

<a href="main.php" class="btn btn-success"> Home </a>

</div>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html>

<head>

<title></title>

<!-- Latest compiled and minified CSS -->

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">

<!-- jQuery library -->

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<!-- Popper JS -->

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>

<!-- Latest compiled JavaScript -->

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>

<style type="text/css">

</style>

</head>

<body>

<div class="container text-center" >

<br><br>

<br><br><br><br>

<table class="table text-center table-bordered table-hover">

<tr>

<th colspan="2" class="bg-dark"> <h1 class="text-white"> Results </h1></th>

</tr>

<tr>

<?php

$counter = 0;

$Resultans = 0;

if(isset($\_POST['submit'])){

if(!empty($\_POST['quizcheck'])) {

// Counting number of checked checkboxes.

$checked\_count = count($\_POST['quizcheck']);

//print\_r($\_POST);

?>

<tr>

<td>

<?php

echo "Number of questions attempted: ".$checked\_count;

?>

</td>

</tr>

<td>

Question Results:

<br>

<?php

// Loop to store and display values of individual checked checkbox.

$selected = $\_POST['quizcheck'];

$q1= "select \* from english\_questions";

$ansresults = mysqli\_query($con,$q1);

$i = 1;

while($rows = mysqli\_fetch\_array($ansresults)) {

$flag = $rows['english\_answer\_id'] == $selected[$i];

if($flag){

$counter++;

$Resultans++;

echo "Well Done, question ". $counter ." answer is correct.<br><br>";

}else{

$counter++;

echo "Sorry, your ". $counter ." answer is innncorrect.<br><br>";

//echo "Correct answer is ".$rows['english\_answer']."<br><br>";

}

$i++;

}

?>

</td>

<tr>

<td>

Your total score:

<?php

echo $Resultans;

}

else{

echo "<b>Please attempt a question.</b>";

}

}

?>

</td>

</tr>

</table>

<?php

$userLoggedIn= $\_SESSION['username'];

$finalresult = "INSERT INTO userscores(username,englishscore1, englishqattempted) values ('$userLoggedIn','$Resultans','$checked\_count') ";

$queryresult= mysqli\_query($con,$finalresult);

if($queryresult){

echo "Congratulations on finishing the quiz ".$userLoggedIn."!";

}

?>

<br>

<a href="main.php" class="btn btn-success"> Home </a>

</div>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

//english questions

$sql= "SELECT english\_questions.eqid, english\_questions.english\_question, english\_answers.eaid, english\_answers.english\_answer FROM english\_questions, english\_answers WHERE english\_questions.english\_answer\_id = english\_answers.eaid";

$result = mysqli\_query($con,$sql);

//maths questions

$sql2= "SELECT questions.qid, questions.question, answers.aid, answers.answer FROM questions, answers WHERE questions.answer\_id = answers.aid";

$result2 = mysqli\_query($con,$sql2);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bath College Maths & English Tracker - Quiz Page</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- The above 3 meta tags \*must\* come first in the head; any other head content must come \*after\* these tags -->

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.min.css">

<link href="assets/css/animate.min.css" rel="stylesheet">

<link href="assets/css/animate.css" rel="stylesheet" />

<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main2.php">Home</a></li>

<li><a href="includes/handlers/logout.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div id="home">

<div class="slider">

<div id="about-slider">

<div id="carousel-slider" class="carousel slide" data-ride="carousel">

<!-- Indicators -->

<ol class="carousel-indicators visible-xs">

<li data-target="#carousel-slider" data-slide-to="assets/images/icons/navbarlogo.png" class="active"></li>

</ol>

<!-- Image carousel for banner at the top of each page -->

<div class="carousel-inner">

<div class="item active">

<img src="assets/images/icons/navbarlogo.png" class="img-responsive" alt="Bath College Maths and English Tracker">

</div>

</div>

<!--/#carousel-slider-->

</div>

</div>

</div>

</div>

<section id="about">

<div class="container text-center" >

<br><br>

<br><br><br><br>

<table class="table table-striped">

<thead>

<tr>

<th>English Questions</th>

<th>English Answers</th>

</tr>

</thead>

<?php

//var\_dump(mysqli\_fetch\_array($result));

if(mysqli\_num\_rows($result) > 0)

{

while($row = mysqli\_fetch\_array($result))

{

?>

<tbody>

<td align="left"><?php echo $row ["english\_question"]; ?> </td>

<td align="left"><?php echo $row ["english\_answer"]; ?> </td>

<?php

}

}

?>

</tbody>

</table>

<br>

<br>

<!-- English SECTION -->

<form method="post" name="update" action="" enctype="multipart/form-data"/>

<div class = "form-group">

<label for= "user\_role">English Question and Answer Change Form</label><br>

<select name = "id" id="id" class="form-control">

<?php

//Find all the users from database

$stmt = mysqli\_prepare($con,"SELECT eqid, english\_question, english\_answer\_id FROM english\_questions");

$stmt->bind\_result($eid, $equestion, $eanswerid);

if($stmt->execute()){

while($stmt->fetch()){

echo "<option value='$eid'>{$equestion}</option>";

echo" <span style='visibility: hidden' id='$eanswerid'><span>";

}

}

?>

</select>

</div>

<input type="text"id="english\_question" name="english\_question" />

<label for= "user\_role">Question</label><br>

<input type="submit" name="Submit" value="update" />

<div class = "form-group">

</div>

</form>

<form method="post" name="update" action="" enctype="multipart/form-data"/>

<div class = "form-group">

<label for= "user\_role">Question</label><br>

<select name = "id" id="id" class="form-control">

<?php

//Find all the users from database

$stmt = mysqli\_prepare($con,"SELECT eqid, english\_question, english\_answer\_id FROM english\_questions");

$stmt->bind\_result($eid, $equestion, $eanswerid);

if($stmt->execute()){

while($stmt->fetch()){

echo "<option value='$eanswerid'>{$equestion}</option>";

}

}

?>

</select>

</div>

<input type="text"id="english\_answer" name="english\_answer" />

<label for= "user\_role">Answer</label><br>

<input type="submit" name="Submit" value="update" />

</form>

<!-- MATHS SECTION -->

<table class="table table-striped">

<thead>

<tr>

<th>Maths Questions</th>

<th>Maths Answers</th>

</tr>

</thead>

<?php

//var\_dump(mysqli\_fetch\_array($result));

if(mysqli\_num\_rows($result2) > 0)

{

while($row = mysqli\_fetch\_array($result2))

{

?>

<tbody>

<td align="left"><?php echo $row ["question"]; ?> </td>

<td align="left"><?php echo $row ["answer"]; ?> </td>

<?php

}

}

?>

</tbody>

</table>

<form method="post" name="update" action="" enctype="multipart/form-data"/>

<div class = "form-group">

<label for= "user\_role">Maths Question and Answer Change Form</label><br>

<select name = "id" id="id" class="form-control">

<?php

//Find all the users from database

$stmt = mysqli\_prepare($con,"SELECT qid, question, answer\_id FROM questions");

$stmt->bind\_result($id, $question, $answerid);

if($stmt->execute()){

while($stmt->fetch()){

echo "<option value='$id'>{$question}</option>";

echo" <span style='visibility: hidden' id='$answerid'><span>";

}

}

?>

</select>

</div>

<input type="text"id="question" name="question" />

<label for= "user\_role">Question</label><br>

<input type="submit" name="Submit" value="update" />

<div class = "form-group">

</div>

</form>

<form method="post" name="update" action="" enctype="multipart/form-data"/>

<div class = "form-group">

<select name = "id" id="id" class="form-control">

<?php

//Find all the questions from database

$stmt = mysqli\_prepare($con,"SELECT qid, question, answer\_id FROM questions");

$stmt->bind\_result($id, $question, $answerid);

if($stmt->execute()){

while($stmt->fetch()){

echo "<option value='$answerid'>{$question}</option>";

}

}

?>

</select>

</div>

<input type="text"id="answer" name="answer" />

<label for= "user\_role">Answer</label><br>

<input type="submit" name="Submit" value="update" />

</div>

</section>

<?php

//MATHS Q/A UPDATE

if(isset($\_POST['answer'])){

$stmt2 = mysqli\_prepare($con,"UPDATE answers SET answer = ? WHERE aid = ? ");

//Query to update database users

mysqli\_stmt\_bind\_param($stmt2,'si', $\_POST['answer'], $\_POST['id'] );

mysqli\_stmt\_execute($stmt2);

mysqli\_stmt\_close($stmt2);//Close statment

header("Location:../edit\_questions.php");

}

if(isset($\_POST['question'])){

$stmt = mysqli\_prepare($con,"UPDATE questions SET question = ? WHERE qid = ?");

//Query to update database users

mysqli\_stmt\_bind\_param($stmt,'si',$\_POST['question'], $\_POST['id']);

mysqli\_stmt\_execute($stmt);

mysqli\_stmt\_close($stmt);//Close statment

header("Location:../edit\_questions.php");

}

//ENGLISH Q/A UPDATE

if(isset($\_POST['english\_answer'])){

$stmt3 = mysqli\_prepare($con,"UPDATE english\_answers SET english\_answer = ? WHERE eaid = ? ");

//Query to update database users

mysqli\_stmt\_bind\_param($stmt3,'si', $\_POST['english\_answer'], $\_POST['id'] );

mysqli\_stmt\_execute($stmt3);

mysqli\_stmt\_close($stmt3);//Close statment

header("Location:../edit\_questions.php");

}

if(isset($\_POST['english\_question'])){

$stmt4 = mysqli\_prepare($con,"UPDATE english\_questions SET english\_question = ? WHERE eqid = ?");

//Query to update database users

mysqli\_stmt\_bind\_param($stmt4,'si',$\_POST['english\_question'], $\_POST['id']);

mysqli\_stmt\_execute($stmt4);

mysqli\_stmt\_close($stmt4);//Close statment

header("Location:../edit\_questions.php");

}

?>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

</div>

<p>Developed by Jared Taws & Luke Parfrey Work-Based Research Project 2017/18</p>

&copy; OnePage Theme. All Rights Reserved.

<div class="credits">

<!--

All the links in the footer should remain intact.

You can delete the links only if you purchased the pro version.

Licensing information: https://bootstrapmade.com/license/

Purchase the pro version with working PHP/AJAX contact form: https://bootstrapmade.com/buy/?theme=OnePage

-->

<a href="https://bootstrapmade.com/">Bootstrap Templates</a> by <a href="https://bootstrapmade.com/">BootstrapMade</a>

</div>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

<li><a href="https://www.facebook.com/BathCollege/"><i class="fa fa-facebook"></i></a></li>

<li><a href="https://twitter.com/BathCollege"><i class="fa fa-twitter"></i></a></li>

<li><a href="https://www.instagram.com/bathcollege/?hl=en"><i class="fa fa-instagram"></i></a></li>

<!-- Social media links to Bath College social media pages 'fa fa-' is in reference to externally stored images of social media icons that have been styled accordingly -->

<table style="width:100%">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

<th>Blog Links</th>

</tr>

<tr>

<td align="left" >Luke</td>

<td align="left" >Parfrey</td>

<td align="left" >PAR13135837@student.citybathcoll.ac.uk</td>

<td align="left" ><a href="https://lukeparfrey.tumblr.com/">Luke Parfrey tumblr</a></td>

</tr>

<tr>

<td align="left" >Jared</td>

<td align="left" >Taws</td>

<td align="left" >TAW13137258@student.citybathcoll.ac.uk</td>

<td align="left" ><a href="https://jaredtaws.tumblr.com/">Jared Taws tumblr</a></td>

</tr>

</table>

<!-- All contents of the footer within this section -->

</ul>

</div>

</div>

</div>

</div>

</div>

</footer>

<!--/#footer-->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->

<script src="assets/js/jquery.js"></script>

<!-- Include all compiled plugins (below), or include individual files as needed -->

<script src="assets/js/bootstrap.min.js"></script>

<script src="assets/js/jquery.prettyPhoto.js"></script>

<script src="assets/js/jquery.isotope.min.js"></script>

<script src="assets/js/wow.min.js"></script>

<script src="assets/js/jquery.easing.min.js"></script>

<script src="https://maps.googleapis.com/maps/api/js?key=AIzaSyD8HeI8o-c1NppZA-92oYlXakhDPYR7XMY"></script>

<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Quiz</title>

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.min.css">

<link href="assets/css/animate.min.css" rel="stylesheet">

<link href="assets/css/animate.css" rel="stylesheet" />

<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main.php">Quiz</a></li>

<li><a href="links.html">External Links</a></li>

<li><a href="about.html">About</a></li>

<li><a href="includes/handlers/logout.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div class="container">

<br><br>

<br><br>

<br><br>

<h2 class="text-center text-success"> Welcome <?php echo $\_SESSION['username']; ?> </h2> <br>

<div>

<div class="card" >

<h3 class="text-center card-header"> Welcome <?php echo $\_SESSION['username']; ?>, to the English Quiz. Good luck! </h3>

</div><br>

<form action="check2.php" method="post">

<?php

for($i=1 ; $i < 6 ; $i++){

$q = " select \* from english\_questions where eqid = $i";

$query = mysqli\_query($con, $q);

while ($rows = mysqli\_fetch\_array($query) ) {

?>

<div class="card">

<h4 class="card-header"> <?php echo $rows['english\_question'] ?> </h4>

<?php

$q = " select \* from english\_answers where english\_answer\_id = $i";

$query = mysqli\_query($con, $q);

while ($rows = mysqli\_fetch\_array($query) ) {

?>

<div class="card-body">

<input type="radio" name="quizcheck[<?php echo $rows['english\_answer\_id']; ?>]" value="<?php echo $rows['eaid']; ?>">

<?php echo $rows['english\_answer']; ?>

</div>

<?php

}

}

}

?>

<input type="submit" name="submit" value="Submit" class="btn btn-success m-auto d-block">

</form>

</div>

</div><br><br>

<div class="m-auto d-block">

</div><br>

<div>

</div>

</div>

<br><br><br><br>

</div>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<p>Developed by Jared Taws & Luke Parfrey Work-Based Research Project 2017/18</p>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

<li><a href="https://www.facebook.com/BathCollege/"><i class="fa fa-facebook"></i></a></li>

<li><a href="https://twitter.com/BathCollege"><i class="fa fa-twitter"></i></a></li>

<li><a href="https://www.instagram.com/bathcollege/?hl=en"><i class="fa fa-instagram"></i></a></li>

<!-- Social media links to Bath College social media pages 'fa fa-' is in reference to externally stored images of social media icons that have been styled accordingly -->

<table style="width:100%">

<tr>

<th>First Name</th>

<th>Last Name</th>

<th>Email</th>

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<td align="left" ><a href="https://jaredtaws.tumblr.com/">Jared Taws tumblr</a></td>

</tr>

</table>

<!-- All contents of the footer within this section -->

</ul>

<div class="credits">

&copy; Bootstrap OnePage Theme. All Rights Reserved.

</div>

</div>

</div>

</div>

</div>

</div>

</footer>

<!--/#footer-->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->

<script src="assets/js/jquery.js"></script>

<!-- Include all compiled plugins (below), or include individual files as needed -->

<script src="assets/js/bootstrap.min.js"></script>

<script src="assets/js/jquery.prettyPhoto.js"></script>

<script src="assets/js/jquery.isotope.min.js"></script>

<script src="assets/js/wow.min.js"></script>

<script src="assets/js/jquery.easing.min.js"></script>

<script src="https://maps.googleapis.com/maps/api/js?key=AIzaSyD8HeI8o-c1NppZA-92oYlXakhDPYR7XMY"></script>

<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

require 'includes/form\_handlers/register\_handler.php';

require 'includes/form\_handlers/login\_handler.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

header("Location: main.php");

}

else {

?>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" type="text/css" href="assets/css/style.css">

<link rel="stylesheet" type="text/css" href="assets/css/signin.css">

<link rel="stylesheet" type="text/css" href="assets/css/signin2.css">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

</head>

<body>

<div class="limiter">

<div class="container-login100">

<div class="wrap-login100">

<div class="login100-form-title" style="background-image: url(assets/images/backgrounds/bathcolllogin.jpg);">

<span class="login100-form-title-1">

</span>

</div>

<!--Image and sign in title-->

<?php

if(isset($\_POST['register\_button'])) {

echo '

<script>

$(document).ready(function() {

$("#first").hide();

$("#second").show();

});

</script>

';

}

?>

<h2> Sign In </h2>

<div id="first">

<!--Email is inserted here-->

<form class="login100-form validate-form" action="index.php" method="POST">

<div class="wrap-input100 validate-input m-b-26" data-validate="Username is required">

<span class="label-input100">Email</span>

<input class="input100" type="email" name="log\_email" placeholder="Enter Email Address" <?php

if(isset($\_SESSION['log\_email'])) {

echo $\_SESSION['log\_email'];

}

?>" required>

<span class="focus-input100"></span>

</div>

<!--Password is inserted here-->

<div class="wrap-input100 validate-input m-b-18" data-validate = "Password is required">

<span class="label-input100">Password</span>

<input class="input100" type="password" name="log\_password" placeholder="Enter password">

<?php if(in\_array("Email or password was incorrect<br>", $error\_array)) echo "Email or password was incorrect<br>"; ?>

<span class="focus-input100"></span>

</div>

<div class="container-login100-form-btn">

<button class="login100-form-btn" type="submit" name="login\_button" value="Login">

Login

</button>

</div>

<a href="#" id="signup" class="signup">Need and account? Register below!</a>

<!--Login button-->

</form>

</div> <!-- end of first div -->

<h2> Register </h2>

<div id="second">

<!--FIRST NAME-->

<form class="login100-form validate-form" action="index.php" method="POST">

<div class="wrap-input100 validate-input m-b-26" data-validate="First Name is required">

<span class="label-input100">First Name</span>

<input class="input100" type="text" name="reg\_fname" placeholder="First Name" <?php

if(isset($\_SESSION['reg\_fname'])) {

echo $\_SESSION['reg\_fname'];

}

?>" required>

<?php if(in\_array("Your first name must be between 2 and 25 characters<br>", $error\_array)) echo "Your first name must be between 2 and 25 characters<br>"; ?>

<span class="focus-input100"></span>

</div>

<!--LAST NAME-->

<div class="wrap-input100 validate-input m-b-26" data-validate="Last Name is Required">

<span class="label-input100">Last Name</span>

<input class="input100" type="text" name="reg\_lname" placeholder="Last Name" <?php

if(isset($\_SESSION['reg\_lname'])) {

echo $\_SESSION['reg\_lname'];

}

?>" required>

<?php if(in\_array("Your last name must be between 2 and 25 characters<br>", $error\_array)) echo "Your last name must be between 2 and 25 characters<br>"; ?>

<span class="focus-input100"></span>

</div>

<!--EMAIL-->

<div class="wrap-input100 validate-input m-b-26" data-validate="Last Name is Required">

<span class="label-input100">Email</span>

<input class="input100" type="email" name="reg\_email" placeholder="Email" <?php

if(isset($\_SESSION['reg\_email'])) {

echo $\_SESSION['reg\_email'];

}

?>" required>

<span class="focus-input100"></span>

</div>

<!--EMAIL Confirmation-->

<div class="wrap-input100 validate-input m-b-26" data-validate="Last Name is Required">

<span class="label-input100">Email Confirmation</span>

<input class="input100" type="email" name="reg\_email2" placeholder="Email" <?php

if(isset($\_SESSION['reg\_email2'])) {

echo $\_SESSION['reg\_email2'];

}

?>" required>

<?php if(in\_array("Email already in use<br>", $error\_array)) echo "Email already in use<br>";

else if(in\_array("Invalid email format<br>", $error\_array)) echo "Invalid email format<br>";

else if(in\_array("Emails don't match<br>", $error\_array)) echo "Emails don't match<br>"; ?>

<span class="focus-input100"></span>

</div>

<!--Password-->

<div class="wrap-input100 validate-input m-b-18" data-validate = "Password is required">

<span class="label-input100">Password</span>

<input class="input100" type="password" name="reg\_password" placeholder="Enter password" required>

<?php if(in\_array("Email or password was incorrect<br>", $error\_array)) echo "Email or password was incorrect<br>"; ?>

<span class="focus-input100"></span>

</div>

<!--Password Confirmation-->

<div class="wrap-input100 validate-input m-b-18" data-validate = "Password is required">

<span class="label-input100">Password Confirmation</span>

<input class="input100" type="password" name="reg\_password2" placeholder="Confirm password" required>

<?php if(in\_array("Email already in use<br>", $error\_array)) echo "Email already in use<br>";

else if(in\_array("Invalid email format<br>", $error\_array)) echo "Invalid email format<br>";

else if(in\_array("Emails don't match<br>", $error\_array)) echo "Emails don't match<br>"; ?>

<span class="focus-input100"></span>

</div>

<div class="container-login100-form-btn">

<button class="login100-form-btn" type="submit" name="register\_button" value="Register">

Register

</button>

</div>

<?php if(in\_array("<span style='color: #14C800;'>You're all set! Go ahead and login!</span><br>", $error\_array)) echo "<span style='color: #14C800;'>You're all set! Go ahead and login!</span><br>"; ?>

<a href="#" id="signin" class="signin">Already have an account? Sign in here!</a>

<!--Login button-->

</form>

</div> <!-- end of second div -->

</div>

</div>

</div>

</body>

</html>

<?php

}

?>

<?php

include("includes/header.php");

include("includes/classes/User.php");

include("includes/classes/Post.php");

if(isset($\_POST['post'])){

$post = new Post($con, $userLoggedIn);

$post->submitPost($\_POST['post\_text'], 'none');

}

?>

<div class="user\_details column">

<a href="<?php echo $userLoggedIn; ?>"></a>

<div class="user\_details\_left\_right">

<a href="<?php echo $userLoggedIn; ?>">

<?php

echo $user['first\_name'] . " " . $user['last\_name']. "<br><br>" ;

?>

</a>

<?php echo "Maths Score: " . $user['num\_posts']. "<br><br>";

echo "English Score: " . $user['num\_likes'];

?>

</div>

</div>

<div class="main\_column column">

<form class="post\_form" action="index.php" method="POST">

<textarea name="post\_text" id="post\_text" placeholder="Make a post here."></textarea>

<input type="submit" name="post" id="post\_button" value="Post">

<hr>

</form>

<div class="posts\_area"></div>

<img id="loading" src="assets/images/icons/loading.gif">

</div>

<section>

</section>

<script>

var userLoggedIn = '<?php echo $userLoggedIn; ?>';

$(document).ready(function() {

$('#loading').show();

//Original ajax request for loading first posts

$.ajax({

url: "includes/handlers/ajax\_load\_posts.php",

type: "POST",

data: "page=1&userLoggedIn=" + userLoggedIn,

cache:false,

success: function(data) {

$('#loading').hide();

$('.posts\_area').html(data);

}

});

$(window).scroll(function() {

var height = $('.posts\_area').height(); //Div containing posts

var scroll\_top = $(this).scrollTop();

var page = $('.posts\_area').find('.nextPage').val();

var noMorePosts = $('.posts\_area').find('.noMorePosts').val();

if ((document.body.scrollHeight == document.body.scrollTop + window.innerHeight) && noMorePosts == 'false') {

$('#loading').show();

var ajaxReq = $.ajax({

url: "includes/handlers/ajax\_load\_posts.php",

type: "POST",

data: "page=" + page + "&userLoggedIn=" + userLoggedIn,

cache:false,

success: function(response) {

$('.posts\_area').find('.nextPage').remove(); //Removes current .nextpage

$('.posts\_area').find('.noMorePosts').remove(); //Removes current .nextpage

$('#loading').hide();

$('.posts\_area').append(response);

}

});

} //End if

return false;

}); //End (window).scroll(function())

});

</script>

</div>

</body>

</html>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bath College Maths & English Tracker - Links</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- The above 3 meta tags \*must\* come first in the head; any other head content must come \*after\* these tags -->

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.min.css">

<link href="assets/css/animate.min.css" rel="stylesheet">

<link href="assets/css/animate.css" rel="stylesheet" />

<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

<!-- =======================================================

Theme Name: OnePage

Theme URL: https://bootstrapmade.com/onepage-multipurpose-bootstrap-template/

Author: BootstrapMade

Author URL: https://bootstrapmade.com

======================================================= -->

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main.php">Quiz</a></li>

<li><a href="links.html">External Links</a></li>

<li><a href="about.html">About</a></li>

<li><a href="index.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div id="home">

<div class="slider">

<div id="about-slider">

<div id="carousel-slider" class="carousel slide" data-ride="carousel">

<!-- Indicators -->

<ol class="carousel-indicators visible-xs">

<li data-target="#carousel-slider" data-slide-to="assets/images/icons/navbarlogo.png" class="active"></li>

</ol>

<!-- Image carousel for banner at the top of each page -->

<div class="carousel-inner">

<div class="item active">

<img src="assets/images/icons/navbarlogo.png" class="img-responsive" alt="Bath College Maths and English Tracker">

</div>

</div>

<!--/#carousel-slider-->

</div>

</div>

</div>

</div>

<section id="about">

<div class="container">

<div class="center">

<div class="col-md-6 col-md-offset-3">

<br>

<br>

<h2>Additional Revision Websites</h2>

<hr>

<br>

<br>

<p><a href="https://corbettmaths.com/">Corbett Maths</a></p>

<p><a href="https://www.mymaths.co.uk/">My Maths</a></p>

<p><a href="http://www.math-aids.com/">Math Aids</a></p>

<p><a href="https://www.mathsnetalevel.com/">Maths Net</a></p>

<p><a href="https://www.cut-the-knot.org/">Cut the Knot</a></p>

<p><a href="https://www.thestudentroom.co.uk/">The Student Room</a></p>

<p><a href="http://mathforum.org/dr.math/">Math Forum</a></p>

<p><a href="https://hegartymaths.com/">Hegarty Maths</a></p>

<p><a href="https://www.mathtv.com/">Math TV</a></p>

<p><a href="https://www.khanacademy.org/">Khan Academy</a></p>

<p><a href="http://www.englishbiz.co.uk/">English Biz</a></p>

<p><a href="https://revisionworld.com/">Revision World</a></p>

<p><a href="https://getrevising.co.uk/">Get Revising</a></p>

<p><a href="https://www.s-cool.co.uk/gcse/english">S-Cool</a></p>

<p><a href="https://studywise.co.uk/gcse-revision/english-language/">Study Wise</a></p>

<p><a href="https://www.bbc.com/education/subjects/zr9d7ty">BBC Bitesize - English Language</a></p>

<p class="lead"></p>

</div>

</div>

</div>

<!-- Contents of 'About' section -->

<div class="container">

</div>

<!--/.container-->

</section>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

</div>

<p>Developed by Jared Taws & Luke Parfrey Work-Based Research Project 2017/18</p>

&copy; OnePage Theme. All Rights Reserved.

<div class="credits">

<!--

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Purchase the pro version with working PHP/AJAX contact form: https://bootstrapmade.com/buy/?theme=OnePage

-->

<a href="https://bootstrapmade.com/">Bootstrap Templates</a> by <a href="https://bootstrapmade.com/">BootstrapMade</a>

</div>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

<li><a href="https://www.facebook.com/BathCollege/"><i class="fa fa-facebook"></i></a></li>

<li><a href="https://twitter.com/BathCollege"><i class="fa fa-twitter"></i></a></li>

<li><a href="https://www.instagram.com/bathcollege/?hl=en"><i class="fa fa-instagram"></i></a></li>

<!-- Social media links to Bath College social media pages 'fa fa-' is in reference to externally stored images of social media icons that have been styled accordingly -->

<table style="width:100%">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Email</th>

<th>Blog Links</th>

</tr>

<tr>

<td align="left" >Luke</td>

<td align="left" >Parfrey</td>

<td align="left" >PAR13135837@student.citybathcoll.ac.uk</td>

<td align="left" ><a href="https://lukeparfrey.tumblr.com/">Luke Parfrey tumblr</a></td>

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<tr>

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<td align="left" >TAW13137258@student.citybathcoll.ac.uk</td>

<td align="left" ><a href="https://jaredtaws.tumblr.com/">Jared Taws tumblr</a></td>

</tr>

</table>

<!-- All contents of the footer within this section -->

</ul>

</div>

</div>

</div>

</div>

</div>

</footer>

<!--/#footer-->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->

<script src="assets/js/jquery.js"></script>

<!-- Include all compiled plugins (below), or include individual files as needed -->

<script src="assets/js/bootstrap.min.js"></script>

<script src="assets/js/jquery.prettyPhoto.js"></script>

<script src="assets/js/jquery.isotope.min.js"></script>

<script src="assets/js/wow.min.js"></script>

<script src="assets/js/jquery.easing.min.js"></script>

<script src="https://maps.googleapis.com/maps/api/js?key=AIzaSyD8HeI8o-c1NppZA-92oYlXakhDPYR7XMY"></script>

<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bath College Maths & English Tracker - Quiz Page</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- The above 3 meta tags \*must\* come first in the head; any other head content must come \*after\* these tags -->

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.min.css">

<link href="assets/css/animate.min.css" rel="stylesheet">

<link href="assets/css/animate.css" rel="stylesheet" />

<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main.php">Quiz</a></li>

<li><a href="links.html">External Links</a></li>

<li><a href="about.html">About</a></li>

<li><a href="includes/handlers/logout.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div id="home">

<div class="slider">

<div id="about-slider">

<div id="carousel-slider" class="carousel slide" data-ride="carousel">

<!-- Indicators -->

<ol class="carousel-indicators visible-xs">

<li data-target="#carousel-slider" data-slide-to="assets/images/icons/navbarlogo.png" class="active"></li>

</ol>

<!-- Image carousel for banner at the top of each page -->

<div class="carousel-inner">

<div class="item active">

<img src="assets/images/icons/navbarlogo.png" class="img-responsive" alt="Bath College Maths and English Tracker">

</div>

</div>

<!--/#carousel-slider-->

</div>

</div>

</div>

</div>

<section id="about">

<div class="container">

<div class="center">

<div class="col-md-6 col-md-offset-3">

<h2>Quiz Page</h2>

<hr>

<br>

<br>

<div class="card mb-4 box-shadow">

<div class="card-header">

<h1 class="my-0 font-weight-normal">Maths</h1>

</div>

<div class="card-body">

<h3><a href="maths.php">Click here to enter the Maths Quiz</a></h3>

</div>

</div>

<br>

<br>

<br>

<div class="card mb-4 box-shadow">

<div class="card-header">

<h1 class="my-0 font-weight-normal">English</h1>

</div>

<div class="card-body">

<h3><a href="english.php">Click here to enter the English Quiz</a></h3>

</div>

</div>

<br>

<br>

</div>

<p class="lead"></p>

</div>

</div>

<!-- Contents of 'About' section -->

<div class="container">

</div>

<!--/.container-->

</section>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

</div>

<p>Developed by Jared Taws & Luke Parfrey Work-Based Research Project 2017/18</p>

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<div class="credits">

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-->

<a href="https://bootstrapmade.com/">Bootstrap Templates</a> by <a href="https://bootstrapmade.com/">BootstrapMade</a>

</div>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

<li><a href="https://www.facebook.com/BathCollege/"><i class="fa fa-facebook"></i></a></li>

<li><a href="https://twitter.com/BathCollege"><i class="fa fa-twitter"></i></a></li>

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<!-- Social media links to Bath College social media pages 'fa fa-' is in reference to externally stored images of social media icons that have been styled accordingly -->

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</tr>

</table>

<!-- All contents of the footer within this section -->

</ul>

</div>

</div>

</div>

</div>

</div>

</footer>

<!--/#footer-->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->

<script src="assets/js/jquery.js"></script>

<!-- Include all compiled plugins (below), or include individual files as needed -->

<script src="assets/js/bootstrap.min.js"></script>

<script src="assets/js/jquery.prettyPhoto.js"></script>

<script src="assets/js/jquery.isotope.min.js"></script>

<script src="assets/js/wow.min.js"></script>

<script src="assets/js/jquery.easing.min.js"></script>

<script src="https://maps.googleapis.com/maps/api/js?key=AIzaSyD8HeI8o-c1NppZA-92oYlXakhDPYR7XMY"></script>

<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

function admin ($id){

$id = (int)$id;

return(mysqli\_result(mysqli\_query("SELECT COUNT('id') FROM 'users' WHERE 'id' = $id AND 'type' = 1"), "0") == "1") ? true : false;

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bath College Maths & English Support - Quiz Page</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- The above 3 meta tags \*must\* come first in the head; any other head content must come \*after\* these tags -->

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.min.css">

<link href="assets/css/animate.min.css" rel="stylesheet">

<link href="assets/css/animate.css" rel="stylesheet" />

<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Support</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main2.php">Home</a></li>

<li><a href="includes/handlers/logout.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div id="home">

<div class="slider">

<div id="about-slider">

<div id="carousel-slider" class="carousel slide" data-ride="carousel">

<!-- Indicators -->

<ol class="carousel-indicators visible-xs">

<li data-target="#carousel-slider" data-slide-to="assets/images/icons/navbarlogo.png" class="active"></li>

</ol>

<!-- Image carousel for banner at the top of each page -->

<div class="carousel-inner">

<div class="item active">

<img src="assets/images/icons/navbarlogo.png" class="img-responsive" alt="Bath College Maths and English Tracker">

</div>

</div>

<!--/#carousel-slider-->

</div>

</div>

</div>

</div>

<section id="about">

<div class="container">

<div class="center">

<div class="col-md-6 col-md-offset-3">

<h2>Admin Page</h2>

<hr>

<br>

<br>

<div class="card mb-4 box-shadow">

<div class="card-header">

<h1 class="my-0 font-weight-normal">Student Scores</h1>

</div>

<div class="card-body">

<h3><a href="student\_results.php">Click here to view the Student Scores</a></h3>

</div>

</div>

<br>

<br>

<br>

<div class="card mb-4 box-shadow">

<div class="card-header">

<h1 class="my-0 font-weight-normal">Edit Questions</h1>

</div>

<div class="card-body">

<h3><a href="edit\_questions.php">Click here to edit the Quiz Questions</a></h3>

</div>

</div>

<br>

<br>

</div>

<p class="lead"></p>

</div>

</div>

<!-- Contents of 'About' section -->

<div class="container">

</div>

<!--/.container-->

</section>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

</div>

<p>Developed by Jared Taws & Luke Parfrey Work-Based Research Project 2017/18</p>

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<div class="credits">

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-->

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</div>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

<li><a href="https://www.facebook.com/BathCollege/"><i class="fa fa-facebook"></i></a></li>

<li><a href="https://twitter.com/BathCollege"><i class="fa fa-twitter"></i></a></li>

<li><a href="https://www.instagram.com/bathcollege/?hl=en"><i class="fa fa-instagram"></i></a></li>

<!-- Social media links to Bath College social media pages 'fa fa-' is in reference to externally stored images of social media icons that have been styled accordingly -->

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<td align="left" >https://jaredtaws.tumblr.com/</td>

</tr>

</table>

<!-- All contents of the footer within this section -->

</ul>

</div>

</div>

</div>

</div>

</div>

</footer>

<!--/#footer-->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->

<script src="js/jquery.js"></script>

<!-- Include all compiled plugins (below), or include individual files as needed -->

<script src="js/bootstrap.min.js"></script>

<script src="js/jquery.prettyPhoto.js"></script>

<script src="js/jquery.isotope.min.js"></script>

<script src="js/wow.min.js"></script>

<script src="js/jquery.easing.min.js"></script>

<script src="https://maps.googleapis.com/maps/api/js?key=AIzaSyD8HeI8o-c1NppZA-92oYlXakhDPYR7XMY"></script>

<script src="js/main.js"></script>

<script src="contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Quiz</title>

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.min.css">

<link href="assets/css/animate.min.css" rel="stylesheet">

<link href="assets/css/animate.css" rel="stylesheet" />

<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main.php">Quiz</a></li>

<li><a href="links.html">External Links</a></li>

<li><a href="about.html">About</a></li>

<li><a href="includes/handlers/logout.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div class="container">

<br><br>

<br><br>

<br><br>

<h2 class="text-center text-success"> Welcome <?php echo $\_SESSION['username']; ?> </h2> <br>

<div>

<div class="card" >

<h3 class="text-center card-header"> Welcome <?php echo $\_SESSION['username']; ?>, to the Maths Quiz. Good luck! </h3>

</div><br>

<form action="check.php" method="post">

<?php

for($i=1 ; $i < 6 ; $i++){

$q = " select \* from questions where qid = $i";

$query = mysqli\_query($con, $q);

while ($rows = mysqli\_fetch\_array($query) ) {

?>

<div class="card">

<h4 class="card-header"> <?php echo $rows['question'] ?> </h4>

<?php

$q = " select \* from answers where answer\_id = $i";

$query = mysqli\_query($con, $q);

while ($rows = mysqli\_fetch\_array($query) ) {

?>

<div class="card-body">

<input type="radio" name="quizcheck[<?php echo $rows['answer\_id']; ?>]" value="<?php echo $rows['aid']; ?>">

<?php echo $rows['answer']; ?>

</div>

<?php

}

}

}

?>

<input type="submit" name="submit" value="Submit" class="btn btn-success m-auto d-block">

</div>

</form>

</div>

</div><br><br>

<div class="m-auto d-block">

</div><br>

<div>

</div>

<br><br><br><br>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<p>Developed by Jared Taws & Luke Parfrey Work-Based Research Project 2017/18</p>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

<li><a href="https://www.facebook.com/BathCollege/"><i class="fa fa-facebook"></i></a></li>

<li><a href="https://twitter.com/BathCollege"><i class="fa fa-twitter"></i></a></li>

<li><a href="https://www.instagram.com/bathcollege/?hl=en"><i class="fa fa-instagram"></i></a></li>

<!-- Social media links to Bath College social media pages 'fa fa-' is in reference to externally stored images of social media icons that have been styled accordingly -->

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<th>Email</th>

<th>Blog Links</th>

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</tr>

</table>

<!-- All contents of the footer within this section -->

</ul>

<div class="credits">

&copy; Bootstrap OnePage Theme. All Rights Reserved.

</div>

</div>

</div>

</div>

</div>

</div>

</footer>

<!--/#footer-->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->

<script src="assets/js/jquery.js"></script>

<!-- Include all compiled plugins (below), or include individual files as needed -->

<script src="assets/js/bootstrap.min.js"></script>

<script src="assets/js/jquery.prettyPhoto.js"></script>

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<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<?php include("includes/fusioncharts.php"); ?>

<head>

<title>Bath College Maths & English Tracker - Profile</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- The above 3 meta tags \*must\* come first in the head; any other head content must come \*after\* these tags -->

<!-- Bootstrap -->

<link href="assets/css/bootstrap.min.css" rel="stylesheet">

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<link href="assets/css/style.css" rel="stylesheet">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

<!-- =======================================================

Theme Name: OnePage

Theme URL: https://bootstrapmade.com/onepage-multipurpose-bootstrap-template/

Author: BootstrapMade

Author URL: https://bootstrapmade.com

======================================================= -->

<script src="assets/js/fusioncharts.js"></script>

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main.php">Quiz</a></li>

<li><a href="links.html">External Links</a></li>

<li><a href="about.html">About</a></li>

<li><a href="index.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div id="home">

<div class="slider">

<div id="about-slider">

</div>

</div>

</div>

<section id="about">

<div class="container">

<div class="center">

<div class="col-md-6 col-md-offset-3">

<br>

<h2>Your Recent Quiz Results</h2>

<hr>

<?php

$strQuery = "SELECT username, answerscorrect FROM users ORDER BY answerscorrect DESC LIMIT 10";

// Execute the query, or else return the error message.

$result = $dbhandle->query($strQuery) or exit("Error code ({$dbhandle->errno}): {$dbhandle->error}");

// If the query returns a valid response, prepare the JSON string

if ($result) {

// The `$arrData` array holds the chart attributes and data

$arrData = array(

"chart" => array(

"caption" => "Maths Quiz Scores",

"showValues" => "0",

"theme" => "zune"

)

);

$arrData["data"] = array();

// Push the data into the array

while($row = mysqli\_fetch\_array($result)) {

array\_push($arrData["data"], array(

"label" => $row["username"],

"value" => $row["answerscorrect"]

)

);

}

/\*JSON Encode the data to retrieve the string containing the JSON representation of the data in the array. \*/

$jsonEncodedData = json\_encode($arrData);

/\*Create an object for the column chart using the FusionCharts PHP class constructor. Syntax for the constructor is ` FusionCharts("type of chart", "unique chart id", width of the chart, height of the chart, "div id to render the chart", "data format", "data source")`. Because we are using JSON data to render the chart, the data format will be `json`. The variable `$jsonEncodeData` holds all the JSON data for the chart, and will be passed as the value for the data source parameter of the constructor.\*/

$columnChart = new FusionCharts("column2D", "chartID" , 600, 300, "chart-1", "json", $jsonEncodedData);

// Render the chart

$columnChart->render();

// Close the database connection

$dbhandle->close();

}

<div id="chart-1"><!-- Fusion Charts will render here--></div>

?>

<p class="lead"></p>

</div>

</div>

</div>

<!-- Contents of 'About' section -->

<div class="container">

</div>

<!--/.container-->

</section>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

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</div>

</div>

<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

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<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bath College Maths & English Tracker</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

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<link href="assets/css/style.css" rel="stylesheet">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main.php">Quiz</a></li>

<li><a href="links.html">External Links</a></li>

<li><a href="about.html">About</a></li>

<li><a href="includes/handlers/logout.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<section id="about">

<div class="container">

<div class="center">

<div class="col-md-6 col-md-offset-3">

<h2>Student Results Page</h2>

<p class="lead"></p>

</div>

</div>

<!-- Contents of 'About' section -->

<div class="container">

</div>

<!--/.container-->

</section>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

</div>

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<div class="top-bar">

<div class="col-lg-12">

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<ul class="social-share">

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<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

require 'config/config.php';

include("includes/classes/User.php");

if (isset($\_SESSION['username'])) {

$userLoggedIn = $\_SESSION['username'];

$user\_details\_query = mysqli\_query($con, "SELECT \* FROM users WHERE username='$userLoggedIn'");

$user = mysqli\_fetch\_array($user\_details\_query);

$sql= "SELECT users.id, users.username, users.email, userscores.mathsscore1, userscores.mathsqattempted, userscores.englishscore1, userscores.englishqattempted FROM users, userscores WHERE userscores.username = users.username";

$result = mysqli\_query($con,$sql);

}

else {

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>Bath College Maths & English Tracker - Quiz Page</title>

<meta charset="utf-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- The above 3 meta tags \*must\* come first in the head; any other head content must come \*after\* these tags -->

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<link href="assets/css/prettyPhoto.css" rel="stylesheet">

<link href="assets/css/style.css" rel="stylesheet">

<link rel="apple-touch-icon-precomposed" sizes="114x114" href="assets/images/icons/icon.png" />

</head>

<body>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="row">

<div class="site-logo">

<a href="main.php" class="brand">Bath College Maths & English Tracker</a>

</div>

<!-- Title of website also used as button to link back to homepage -->

<!-- Brand and toggle get grouped for better mobile display -->

<div class="navbar-header">

<button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#menu">

<i class="fa fa-bars"></i>

</button>

</div>

<!-- Collect the nav links, forms, and other content for toggling -->

<div class="collapse navbar-collapse" id="menu">

<ul class="nav navbar-nav navbar-right">

<li><a href="main2.php">Home</a></li>

<li><a href="includes/handlers/logout.php">Log Out</a></li>

</ul>

</div>

<!-- Setting destinations for nav buttons, if naming of buttons want to be changed do that above -->

<!-- /.Navbar-collapse -->

</div>

</div>

</nav>

<div id="home">

<div class="slider">

<div id="about-slider">

<div id="carousel-slider" class="carousel slide" data-ride="carousel">

<!-- Indicators -->

<ol class="carousel-indicators visible-xs">

<li data-target="#carousel-slider" data-slide-to="assets/images/icons/navbarlogo.png" class="active"></li>

</ol>

<!-- Image carousel for banner at the top of each page -->

<div class="carousel-inner">

<div class="item active">

<img src="assets/images/icons/navbarlogo.png" class="img-responsive" alt="Bath College Maths and English Tracker">

</div>

</div>

<!--/#carousel-slider-->

</div>

</div>

</div>

</div>

<section id="about">

<div class="container text-center" >

<br><br>

<br><br><br><br>

<table class="table table-striped">

<thead>

<tr>

<th>Student Email</th>

<th>Student ID/Username</th>

<th>English Score</th>

<th>English Attempted</th>

<th>Maths Score</th>

<th>Maths Attempted</th>

</tr>

</thead>

<?php

//var\_dump(mysqli\_fetch\_array($result));

if(mysqli\_num\_rows($result) > 0)

{

while($row = mysqli\_fetch\_array($result))

{

?>

<tbody>

<td><?php echo $row ["email"]; ?> </td>

<td><?php echo $row ["username"]; ?> </td>

<td><?php echo (int)$row ["englishscore1"]; ?> </td>

<td><?php echo (int)$row ["englishqattempted"]; ?> </td>

<td><?php echo (int)$row ["mathsscore1"]; ?> </td>

<td><?php echo (int)$row ["mathsqattempted"]; ?> </td>

<?php

}

}

?>

</tbody>

</table>

<br>

<br>

</div>

</section>

<footer id="footer" class="midnight-blue">

<div class="container">

<div class="row">

<div class="col-md-6 col-md-offset-3">

<div class="text-center">

<a href="#home" class="scrollup"><i class="fa fa-angle-up fa-3x"></i></a>

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<div class="top-bar">

<div class="col-lg-12">

<div class="social">

<ul class="social-share">

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<script src="assets/js/main.js"></script>

<script src="assets/contactform/contactform.js"></script>

</body>

</html>

<?php

include("includes/header.php");

?>

<div class="main\_column column" id="main\_column">

<h4>User Closed</h4>

This account is closed.

<a href="index.php"> Click here to go back.</a>

</div>

$(document).ready(function() {

//On click signup, hide login and show registration form

$("#signup").click(function() {

$("#first").slideUp("slow", function(){

$("#second").slideDown("slow");

});

});

//On click signup, hide registration and show login form

$("#signin").click(function() {

$("#second").slideUp("slow", function(){

$("#first").slideDown("slow");

});

});

});

<?php

ob\_start(); //Turns on output buffering

session\_start();

$timezone = date\_default\_timezone\_set("Europe/London");

$con = mysqli\_connect("localhost", "c9administrator", "1want1n", "c9appData"); //Connection variable

if(mysqli\_connect\_errno())

{

echo "Failed to connect: " . mysqli\_connect\_errno();

}

?>

<?php

require 'config/config.php';

$question = $\_POST['question'];

$answer = $\_POST['answer'];

$questionid = $\_POST['aid'];

$query = "UPDATE questions SET question = '$question'";

$query2 = "UPDATE answers SET answer = '$answer' WHERE answer\_id = '$questionid'";

if(mysql\_query($query)){

echo "updated";}

else{

echo "fail";}

?>

<?php

require 'config/config.php';

if(isset($\_GET['question'])){

echo $users\_id = $\_GET['user\_id'];//Put sent value in varable

}

/\*

$question = $\_POST['question'];

$answer = $\_POST['answer'];

$questionid = $\_POST['aid'];

$query = "UPDATE questions SET question = '$question' WHERE qid = '$qid'";

$query2 = "UPDATE answers SET answer = '$answer' WHERE answer\_id = '$questionid'";

if(mysql\_query($query)){

echo "updated";}

else{

echo "failed";}

\*/

?>

<?php

session\_start();

session\_destroy();

header("Location: ../../index.php");

?>

<?php

if(isset($\_POST['login\_button'])) {

$email = filter\_var($\_POST['log\_email'], FILTER\_SANITIZE\_EMAIL); //sanitize email

$\_SESSION['log\_email'] = $email; //Store email into session variable

$password = md5($\_POST['log\_password']); //Get password

$check\_database\_query = mysqli\_query($con, "SELECT \* FROM users WHERE email='$email' AND password='$password'");

$check\_login\_query = mysqli\_num\_rows($check\_database\_query);

if($check\_login\_query == 1) {

$row = mysqli\_fetch\_array($check\_database\_query);

$username = $row['username'];

$user\_closed\_query = mysqli\_query($con, "SELECT \* FROM users WHERE email='$email' AND user\_closed='yes'");

if(mysqli\_num\_rows($user\_closed\_query) == 1) {

$reopen\_account = mysqli\_query($con, "UPDATE users SET user\_closed='no' WHERE email='$email'");

}

$user\_admin\_query = mysqli\_query($con, "SELECT \* FROM users WHERE email='$email' AND admin='1'");

if(mysqli\_num\_rows($user\_admin\_query ) == 1) {

$\_SESSION['username'] = $username;

$\_SESSION['admin'] = $userAdmin;

header("Location: main2.php");

exit();

}

$\_SESSION['username'] = $username;

header("Location: main.php");

exit();

}

else {

array\_push($error\_array, "Email or password was incorrect<br>");

}

}

?>

<?php

//Declaring variables to prevent errors

$fname = ""; //First name

$lname = ""; //Last name

$em = ""; //email

$em2 = ""; //email 2

$password = ""; //password

$password2 = ""; //password 2

$date = ""; //Sign up date

$error\_array = array(); //Holds error messages

if(isset($\_POST['register\_button'])){

//Registration form values

//First name

$fname = strip\_tags($\_POST['reg\_fname']); //Remove html tags

$fname = str\_replace(' ', '', $fname); //remove spaces

$fname = ucfirst(strtolower($fname)); //Uppercase first letter

$\_SESSION['reg\_fname'] = $fname; //Stores first name into session variable

//Last name

$lname = strip\_tags($\_POST['reg\_lname']); //Remove html tags

$lname = str\_replace(' ', '', $lname); //remove spaces

$lname = ucfirst(strtolower($lname)); //Uppercase first letter

$\_SESSION['reg\_lname'] = $lname; //Stores last name into session variable

//email

$em = strip\_tags($\_POST['reg\_email']); //Remove html tags

$em = str\_replace(' ', '', $em); //remove spaces

$em = ucfirst(strtolower($em)); //Uppercase first letter

$\_SESSION['reg\_email'] = $em; //Stores email into session variable

//email 2

$em2 = strip\_tags($\_POST['reg\_email2']); //Remove html tags

$em2 = str\_replace(' ', '', $em2); //remove spaces

$em2 = ucfirst(strtolower($em2)); //Uppercase first letter

$\_SESSION['reg\_email2'] = $em2; //Stores email2 into session variable

//Password

$password = strip\_tags($\_POST['reg\_password']); //Remove html tags

$password2 = strip\_tags($\_POST['reg\_password2']); //Remove html tags

$date = date("Y-m-d"); //Current date

if($em == $em2) {

//Check if email is in valid format

if(filter\_var($em, FILTER\_VALIDATE\_EMAIL)) {

$em = filter\_var($em, FILTER\_VALIDATE\_EMAIL);

//Check if email already exists

$e\_check = mysqli\_query($con, "SELECT email FROM users WHERE email='$em'");

//Count the number of rows returned

$num\_rows = mysqli\_num\_rows($e\_check);

if($num\_rows > 0) {

array\_push($error\_array, "Email already in use<br>");

}

}

else {

array\_push($error\_array, "Invalid email format<br>");

}

}

else {

array\_push($error\_array, "Emails don't match<br>");

}

if(strlen($fname) > 25 || strlen($fname) < 2) {

array\_push($error\_array, "Your first name must be between 2 and 25 characters<br>");

}

if(strlen($lname) > 25 || strlen($lname) < 2) {

array\_push($error\_array, "Your last name must be between 2 and 25 characters<br>");

}

if($password != $password2) {

array\_push($error\_array, "Your passwords do not match<br>");

}

else {

if(preg\_match('/[^A-Za-z0-9]/', $password)) {

array\_push($error\_array, "Your password can only contain english characters or numbers<br>");

}

}

if(strlen($password > 30 || strlen($password) < 5)) {

array\_push($error\_array, "Your password must be betwen 5 and 30 characters<br>");

}

if(empty($error\_array)) {

$password = md5($password); //Encrypt password before sending to database

//Generate username by concatenating first name and last name

$username = strtolower($fname . "\_" . $lname);

$check\_username\_query = mysqli\_query($con, "SELECT username FROM users WHERE username='$username'");

$i = 0;

//if username exists add number to username

while(mysqli\_num\_rows($check\_username\_query) != 0) {

$i++; //Add 1 to i

$username = $username . "\_" . $i;

$check\_username\_query = mysqli\_query($con, "SELECT username FROM users WHERE username='$username'");

}

$query = mysqli\_query($con, "INSERT INTO users (id, first\_name, last\_name, username, email, password, signup\_date) VALUES ('', '$fname', '$lname', '$username', '$em', '$password', '$date')");

array\_push($error\_array, "<span style='color: #14C800;'>You're all set! Go ahead and login!</span><br>");

//Clear session variables

$\_SESSION['reg\_fname'] = "";

$\_SESSION['reg\_lname'] = "";

$\_SESSION['reg\_email'] = "";

$\_SESSION['reg\_email2'] = "";

}

}

?>

## Project Plan

