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8. **DISCUSSION**

**(thematic/concept based analysis)**

1. **EVALUATION**

**(abstraction +1)**

* 1. Technical Difficulties
  2. Teamwork and Management
  3. Aims Reached

1. **CONCLUSION**

**(abstraction +1)**

* 1. Going Forward

1. **USER GUIDE**
2. **INTRODUCTION**

**1.1 Concept**

As per our proposal, our aim is to develop a web application that ranks the universities in London. Unlike other university ranking sites, we will use social aspects such as crime, transportation, and societies in addition to courses and modules, to form of how we rank the universities. The users of this application can use this site to help them decide where they want to study in London.

We will try to use APIs to gather data from external sites to help us build a ranking system as we do not currently have any data of our own to build an accurate list. We will also use a star grading system based off reviews left by users to rank the courses and modules. Users will be required to log in via their university credentials to leave a review.

**1.2 Project Scope**

As a minimum viable product (MVP), we aim to produce a web application that allows the user to view the current rankings (metrics) of universities in the UK. The user should also be able to read reviews left by other users and be able to submit a review if they wish, we will also include a contact page. Below is a detailed breakdown of these features and addition features we would like to include should the initial MVPs be met.

**MAIN MVPS**

**Homepage**

This will be our landing page where the user will see an up-to-date list ranking the universities in the UK. This will be achieved through the use of APIs. Here, they can sort via the 4 subheadings: Overall score, Student Satisfaction, Social and Graduate prospects. By default, the rankings will be sorted by Overall score.

**Reviews Page – Read reviews**

This page will allow the user to read reviews left by other users and see how they have ranked subjects or social aspects.

**Reviews Page – Submit reviews**

Within the read reviews page, there will be an optional text box for users to submit their own rankings, to do this the user will need to create a profile.

**Profile Page**

Users who wish to leave a review can create their profile here, providing a name and surname.

**Contact Page**

Users can contact any of the team members via the details given on the page.

**ADDITIONAL FEATURES**

**Profile Page**

If the initial MVP for this page is met, we aim to **improve** the profile page and include a login system that requires the user to enter their university credentials so that we can verify them. This will help avoid discriminatory reviews being left by the user. Having verified users also protects the integrity of the site and information submitted.

1. **PLANNING**

**2.1 Approach**

The intention was to meet on a weekly basis, this would give us time to work on our individual tasks and the meetings would be an opportunity for troubleshooting and to review if our current plan was working or if any changes needed to be made.

* 1. **Agile Development Techniques**

We looked at agile development techniques to help us plan how we would work on this project. We decided that Kanban’s and Test-driven development (TDD) were important for us to achieve our end goal. Using a kanban, would allow us to visualise how much progress we are making and keep track of work that needs to be done. The TDD is a crucial part of our plan, as this is where we will find and solve issues within the software. Feedback from our users throughout development will also let us know if we are still working in line with our initial proposal and meeting the user requirements that we set out.

[img]

[img tdd]

**2.3 Group Management**

Our first group meeting was to discuss each other’s strengths and weakness, and how we can best utilise our skills to build our web application. As there were 7 members of the group, we decided it best to have 2 groups of 2, and one group of 3 working on separate tasks.

The first group would be working on the rankings page; this would be the landing page for the website and the first page users will see. We considered that the rankings could be linked to student reviews but as there won’t be enough reviews initially to generate accurate rankings, we would need to do some research on APIs and try to work out how to use it within our software so that we can provide accurate rankings.

The second group will be working on the reviews page, this could be split into two separate pages; one for the reviews and another for the user to leave a review. We agreed that we would for now, try and create it as one page to meet our initial MVP.

We **felt** that the forum page required more people working on it as it would be a more complex task than the others; we would need to build a database to hold the information in addition to creating the actual page in html.

**2.4 Technologies Used**

Currently we are using GitHub for version control, with all group members added as collaborators. We created a repository and uploaded our first iteration

1. **RESEARCH & ANALYSIS**

Refer to research in proposal.

1. **APPLICATION REQUIREMENTS**

We are creating a responsive web application that will be accessible to users via a browser on PC or mobile, there are also no hardware requirements. Below is a detailed breakdown of how the user will interact with each page of the web application.

* Homepage
* Review Page
* Contact Page

1. **PROTOTYPING & ITERATION**

After our first iteration of development, we have produced a homepage, forum page and review page. Below are screenshots of the pages produced so far.

Homepage

Graphical user interface, application, Teams

Description automatically generated

Review Page

Graphical user interface, application

Description automatically generated

Forum page

**Graphical user interface, text, application, chat or text message

Description automatically generated**

1. **SYSTEM DEVELOPMENT**
2. **EVALUATION**
3. **CONCLUSION**
4. **USER GUIDE**