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Submitted to
The University of Roehampton
SOFTWARE ENGINEERING GROUP REPORT
CMP020N204S

Introduction

As part of my computer, science software engineering, coursework, I was required to create a website which is able to present cities all around the world including some information about them and a methodology implemented in order to make it simple for the user for example, adding extra features such as a search system,. throughout the coursework, we worked using augite methodology, so we could complete the task quicker and as a group so everyone could contribute towards the final project.

This project was very essential in working as a group as it took us valuable learning experiences for all group members due to the fact that we had to program on a certain particular software which we are not familiar with. as a result of our collaboration of work, there was a significant amount that was given to us as additional task due to the fact that some students did not participate, so this was one of the issues that we faced.
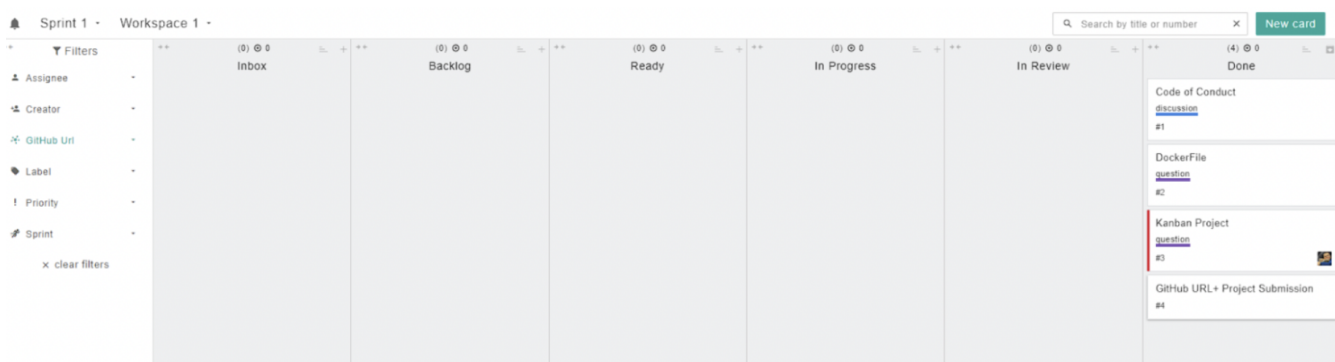
Aim

The aim is to complete the website with a function to display the world dataset by using my SQL. We also developed additional features on the website using the module lessons to support us with processing the website to high standards.

Objectives

Our main objective was to work throughout the sprints (1,2,3,4). we had to develop a template idea in order to know what our final website would look like, and throughout working we had to keep on referring back to our diagrams that we've created in order to meet the standards as much as possible. our main objective is to have a final website that develops the world database without any issues and a login page which could remember the uses.

Another key objective that we had to do as a group was to work together conssistently in order to succeed with the requirement of the sprints. To help us do this we created a code of conduct document where we set rules that all members of the group will follow.

<u>Figure 1- Code of Conduct</u>

After this we created a project backlog where we updated and checked the kanban table and updated each sprint accordingly.

Date: Friday, 3rd Feb 2023 Due Date: 10/02/2023

In Sprint 1, the team will develop a strong development structure and effective communication while building a software project. The team will use GitHub for collaboration (week 2 lab) and create a code of conduct with guidelines. The code of conduct will be stored in Google Docs, while files and progress will be tracked in GitHub. Trust, transparency and accountability are the core values of the team. As part of the code of conduct, all tasks must be assigned reasonably, copying is prohibited, and responsibility must be taken for the work assigned. Violations of the code of conduct may result in warnings from the project manager, termination from the project, and a score of 0. Team members agree not to violate the code of conduct or use ChatGPT for the project.

INTRODUCTION

We are dedicated to providing a harassment free experience for everyone, and we do not tolerate harassment of participants in any form. We ask you to be considerate of others and behave professionally and respectfully to all other participants. This code and related procedures also apply to unacceptable behaviour occurring outside the scope of community activities, in all community venues— online and in-person— as well as in all one-on-one communications, and anywhere such behaviour has the potential to adversely affect the safety and well-being of community members. Exhibitors, speakers, sponsors, staff and all other attendees at events organised by Docker, Inc (DockerCon, meetups, user groups) or held at Docker, Inc facilities are subject to these Community Guidelines and Code of Conduct.

Diversity and inclusion make the Docker community strong. We encourage participation from the most varied and diverse backgrounds possible and want to be very clear about where we stand.

Our goal is to maintain a safe, helpful and friendly Docker community for everyone, regardless of experience, gender identity and expression, sexual orientation, disability, personal appearance, body size, race, ethnicity, age, religion, nationality, or other protected categories under applicable law.

BELOW YOU WILL FIND A FULL BREAKDOWN

As a team we value **Trust** with each other and this means that we will be able to have trust in the assignment due dates and this should be a requirement that is needed to be followed.

Another value within the group would be **Transparency** this means that everybody should always be available for discord meetings and if there is any issue they should have the ability to have strong communication with each other in good timing .

Another value which is required would be having **Accountability** for example if a piece of work is designed and set for an individual within the group they should be fully able to complete the task and if they fail the individual will be accounted for.

CODE OF CONDUCT RULES

As a group we would not allow any form of **Unfairness**: NAS, SAMMY, YOUNIS, and MOHAMED should not be unfair about the tasks by friendship, for example giving easy work to his friend due to personal friendship as this is the code of conduct rules.

Another rule is submitting **Original work** - all work must be the team member's original work, and should not be shared between team members and should have the capacity to explain in good standards.

Another rule would be having **Responsibility**: if NAZ, SAMMY, YOUNIS, and MOHAMED are given work with a due date they should complete it on the given time frame. They should also be reliable when a meeting is in progress to attend on time and be in a quiet study-friendly environment.

FAILING RESULTS IN

The first step if users fail to follow the code of conduct will be having serious conversation with the person involved and this would be a form of warning before getting to the second step.

Naz, Sammy, and Younis agree that they will not violate the Code of Conduct and if so they agree that they would be following the results of misconduct.

The project manager Sammy will give a warning as the first step and then terminate their involvement in the group work and result to 0 .

The use of ChatGPT or any similar software for the project or the code is not allowed and could be taken seriously by the university of Roehampton and will be checked before submission and afterward and if fail the uni will follow the misconduct rules.

Any violations will result in a score of 0 (NAZ, SAMMY, YOUNIS, MOHAMMED)

The code of Conduct covers the problems that can arise and how the team will resolve issues when they arise within the group. This is shown as step 1 and step 2 protocol.

If any of the team members find a problem such as miscommunication they will be requested to follow a Report of complaint to the teacher and be able to describe the problem anonymously if they feel uncomfortable.

Once the teacher is aware and has an understanding about the issue we as a group try to fix the problem directly with whoever is involved and will be getting 0 for the work.
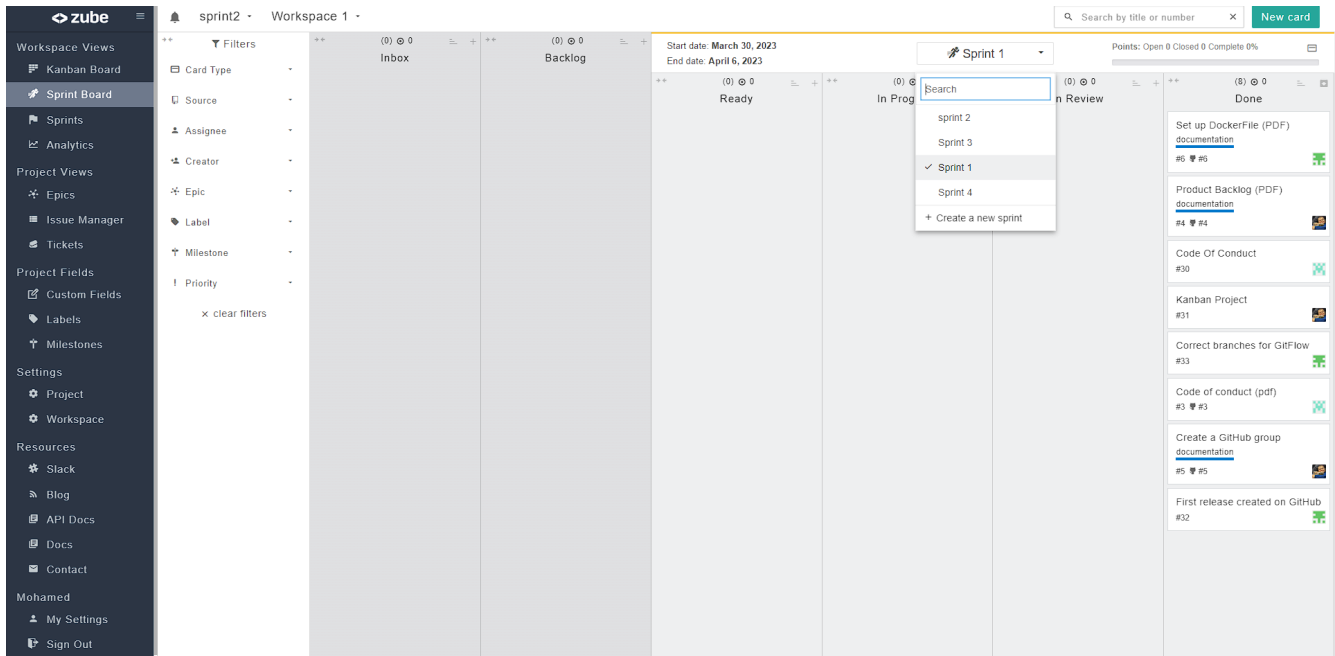
Figure 2- Kanban Table
Background

I personally feel as a second year computer, science student that this coursework was suitable for course Due to the fact that it contains programming, which is part of our key aspects of learning computer science and in addition to this, we've used pug which many students are not comfortable on using as this is our first attempt so for that reason this coursework has taken us out of our regular comfort zone, which would visual studios without any additional links so for that matter, I personally believe that this coursework was suitable for a computer science student.

Another reason why I would say that this coursework was very suitable for a computer science student is the fact that we had to develop complex diagrams which is something that we do on a regular basis throughout coding and development stages, so this has really taught us how to implement it in the real world.
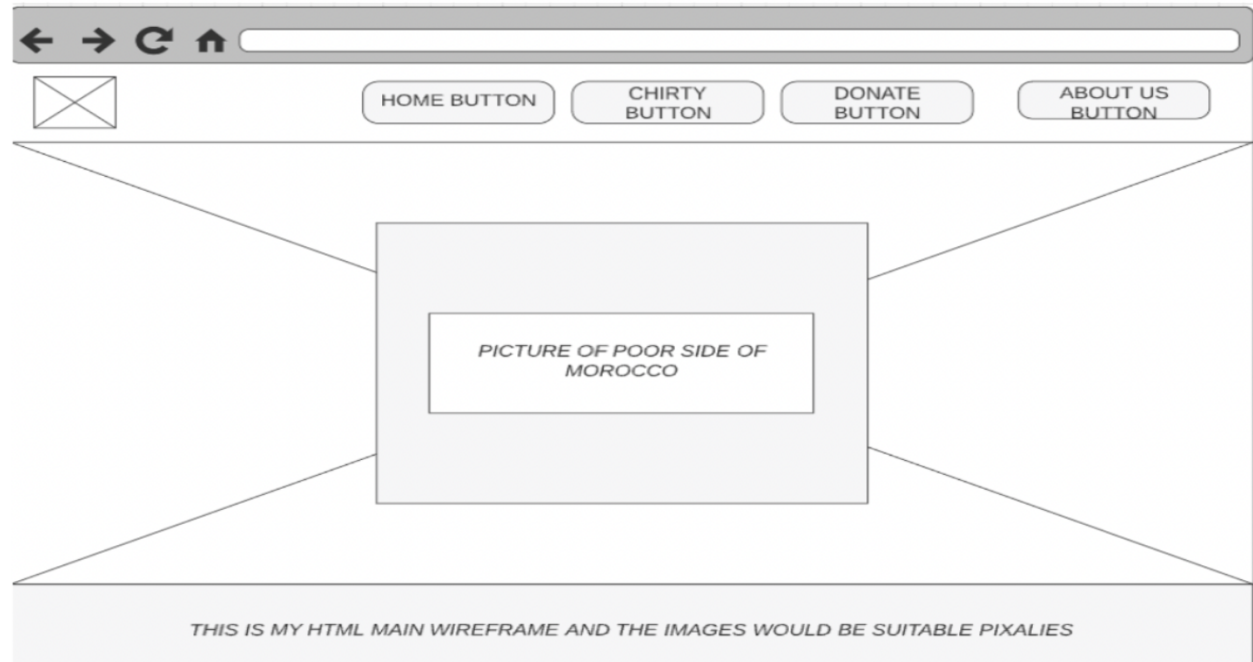
Another reason why this was applicable is due to the fact that we had to work together as a group so that means that we have to be acceptable with people with different knowledge of the coursework and work with different type of people overall so this could have been a little bit of a challenge. However, with determination it has came with ease.

As you may or may not be aware regarding our group many students have not participated due to the fact of leaving the University during the sprints so this was a very difficult situation for me and Sammy, as we was requested to do every single task in order to gain success within the units such as passing so for that matter this has added extra pressure on the team members. However, in order to complete this, without any issues we had to stick to a very strict schedule and had to complete all task on time.
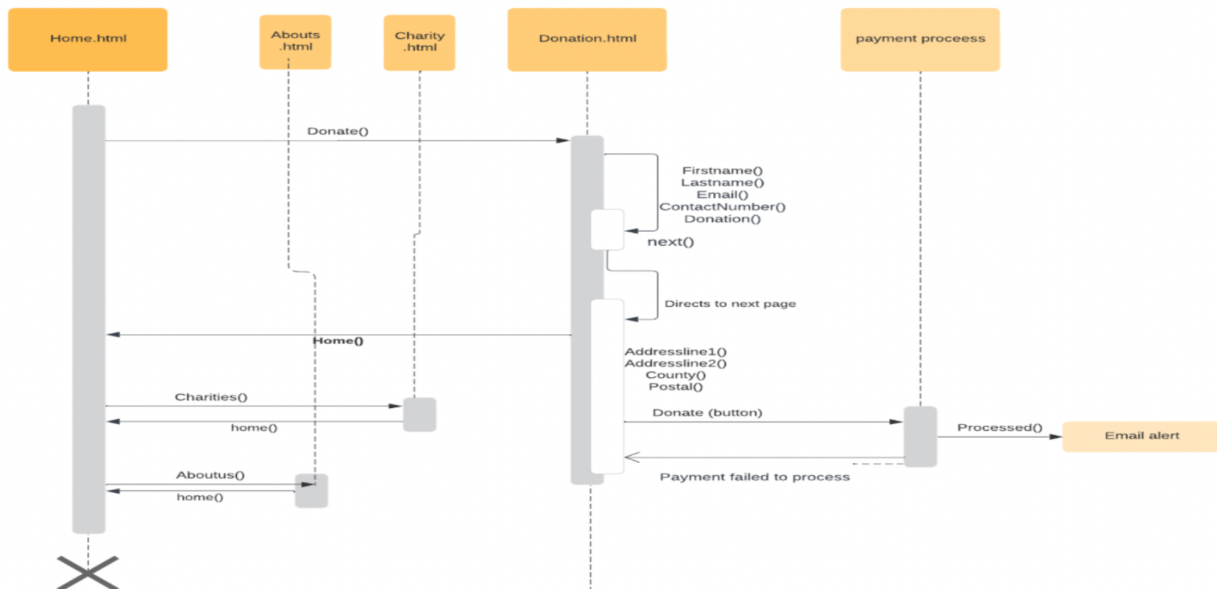
Design

As part of our design and methodology during sprint two, we have carried out multiple diagrams in order to support us, and we've also create a template on how our website page would look like which would be provided below

HOMEPAGE WIREFRAME

THIS IS MY HTML MAIN WIREFRAME AND THE IMAGES WOULD BE SUITABLE PIXALIES

One of the issues that we

had while designing our website was that during our sprint too, we kind of got carried away with the task and we designed a website which is not irrelevant and in line with the coursework because we wanted to be different by using Morocco instead of the entire world however, when

we got reviewed this was told that this wasn't the requirement and we would had to change it in spring three which we done. I would personally say that the feedback that was given was very helpful as it kept us in line with the requirements, and that's the reason why we prefer to work in sprints because it gives us the time to go back on our work and change any feedback that was given to us. So in my perspective, this is a very good topic to mention about our design.

Methodology

As part of our methodology, we had to carry out a research in order to gain data about the world and given that I was sprints, I was able to create a my SQL database with implementation of data which would be provided below
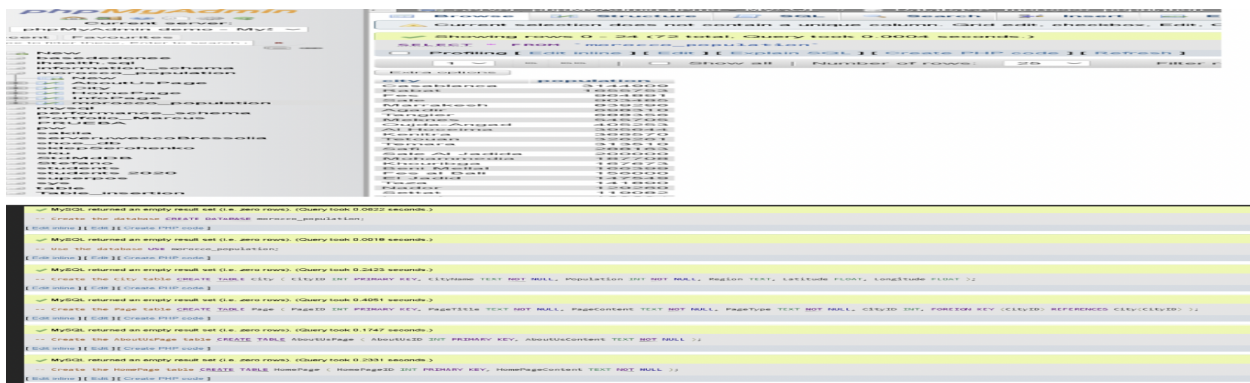
Implementation Or results

Our website works as we was expecting it to due to the fact that it presents a table with world information as well as having extra features on the website, such as the login page which is part of our design and we have implemented it on the final website itself.

In my perspective, the outcome of the coursework implementation has been very successful and looks fantastic in my perspective and also follows the requirements for software engineering.

Related work

During our first year of university, we have participated on PHPmyadmin so I was already aware of some of the key features of this application. This was very helpful due to the fact that we had previously knew how to connect the SQL to the website.

We had created diagrams previously, so this wasn't an issue within the group, as we have previous experience of advanced diagrams when designing.