# HWA project

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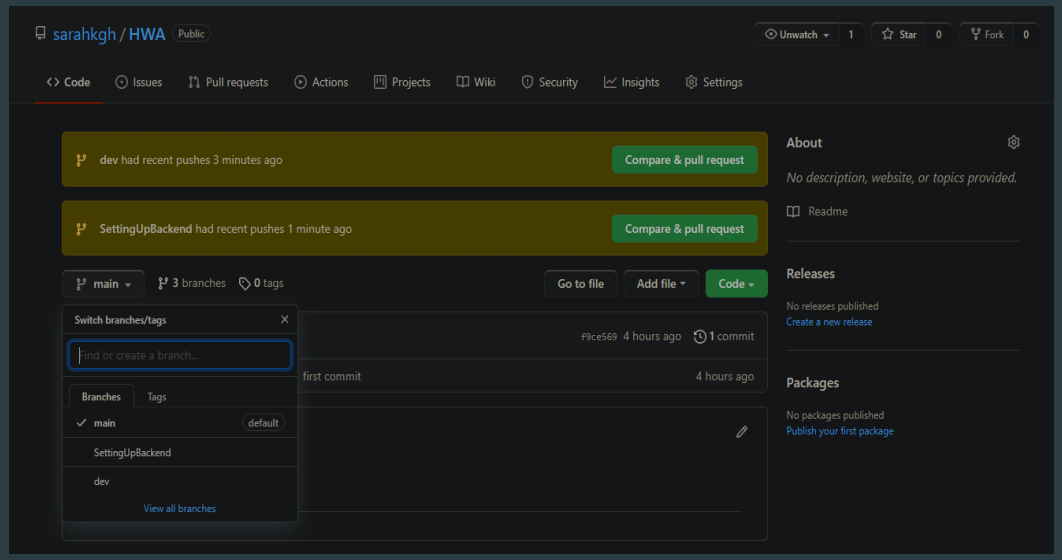
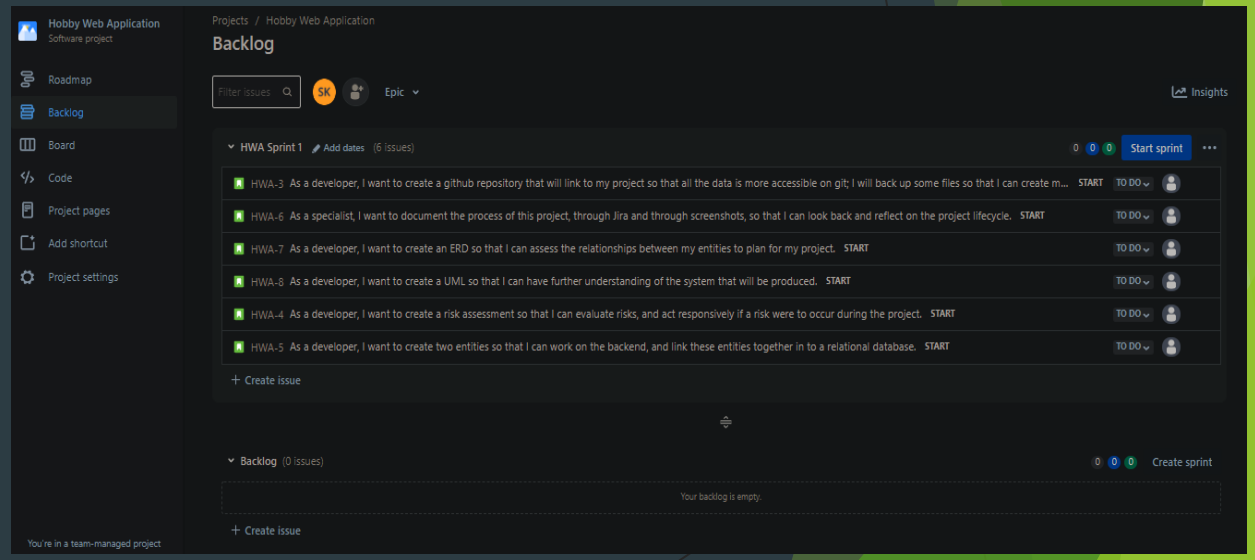
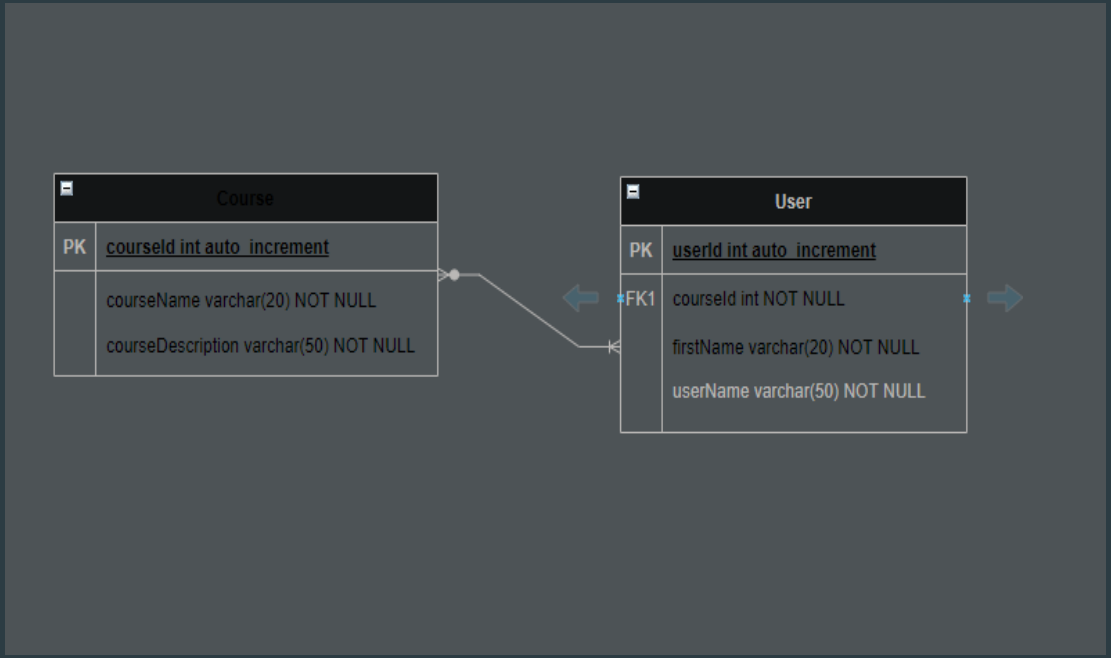
# Introduction

- For this project, I approached the specification by:
- Setting user stories for all tasks within Jira.
- Preparing the GitHub repository so all the code can be kept together.
- Reading through and understanding the scope and MVP.



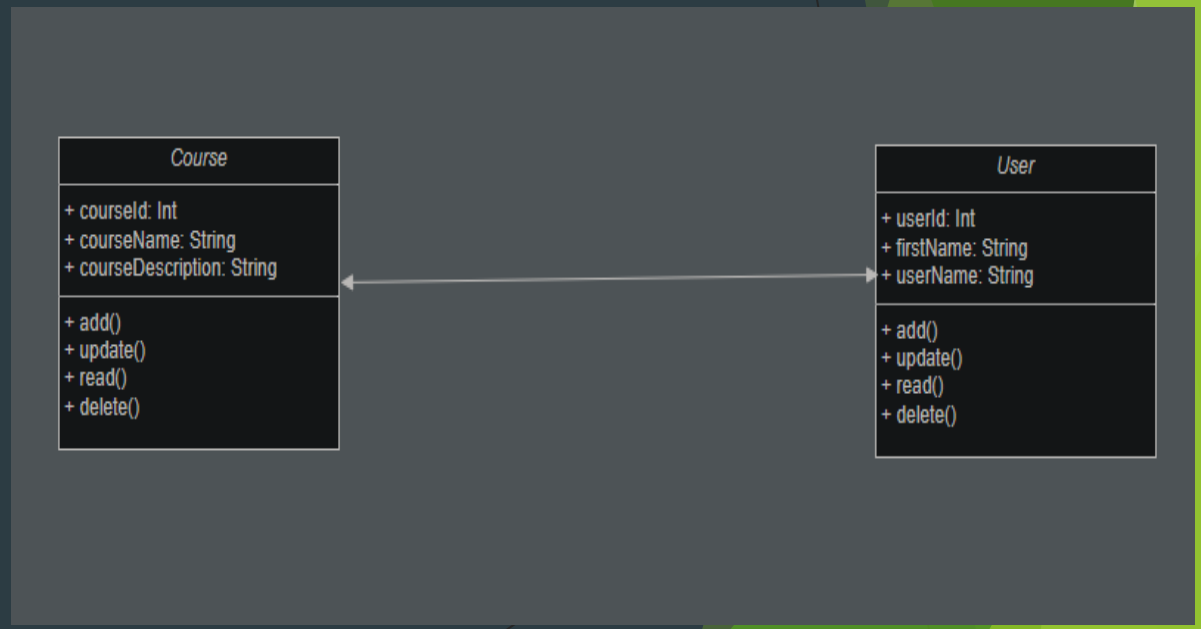



- I prepared ERD and UML diagrams for the project so that I was able to visual the application.




ERD Diagram

UML Diagram



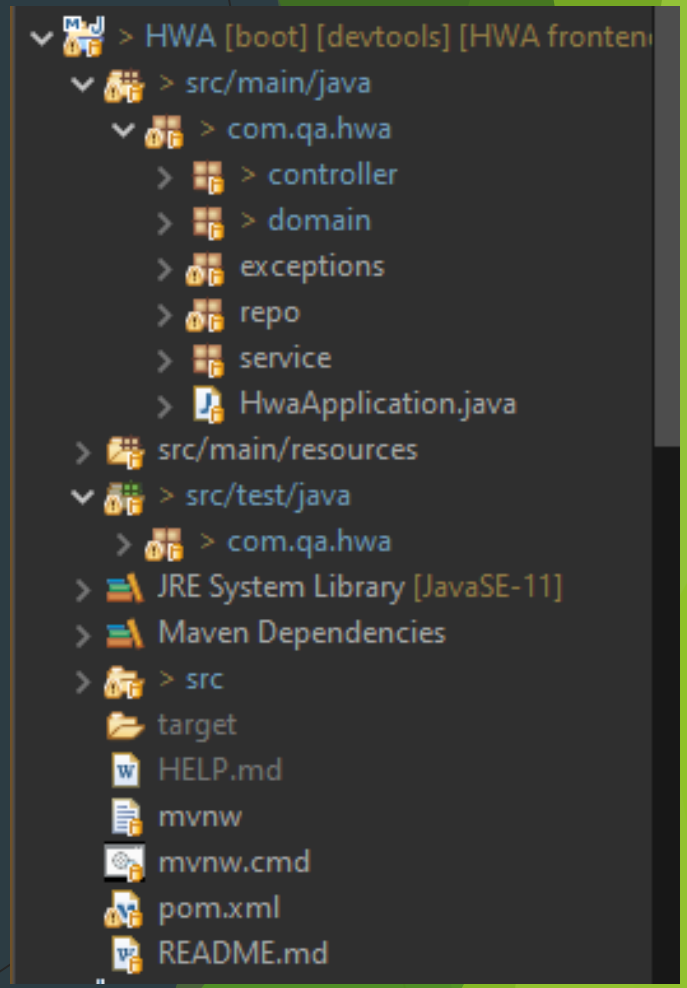
- I first decided to work on the backend of the application so that I would have some code I could base from. First I created the domain then the repo, service and controller classes.

User.java

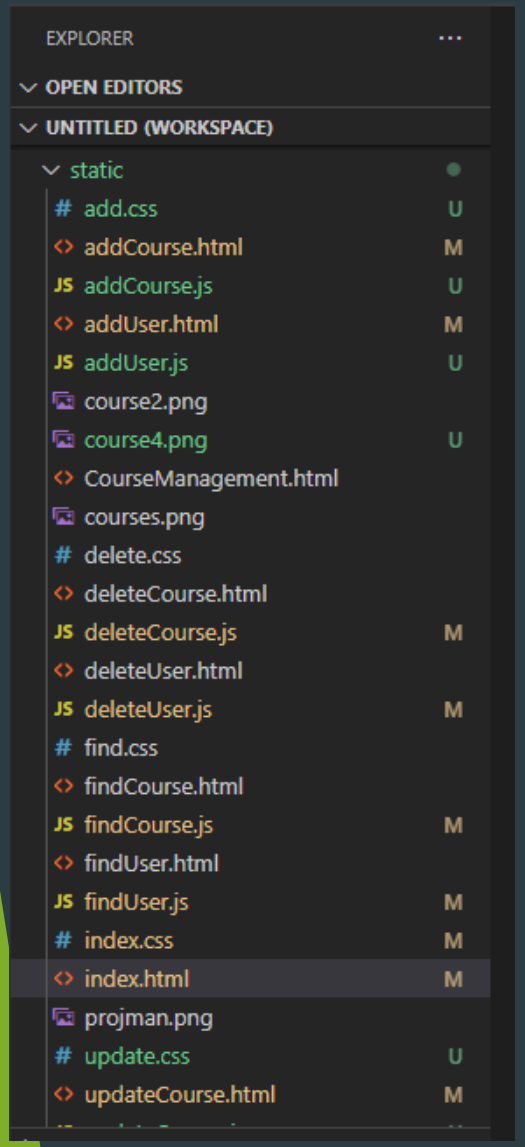
```java
package com.qa.hwa.domain;

import javax.persistence.Column;

@Data
@Entity
public class User {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int userId;

    @Column(name = "firstName", nullable = false)
    private String firstName;

    @Column(nullable = false, unique = true)
    private String userName;

    public User(String firstName, String userName) {
        this.firstName = firstName;
        this.userName = userName;

    }

}
```

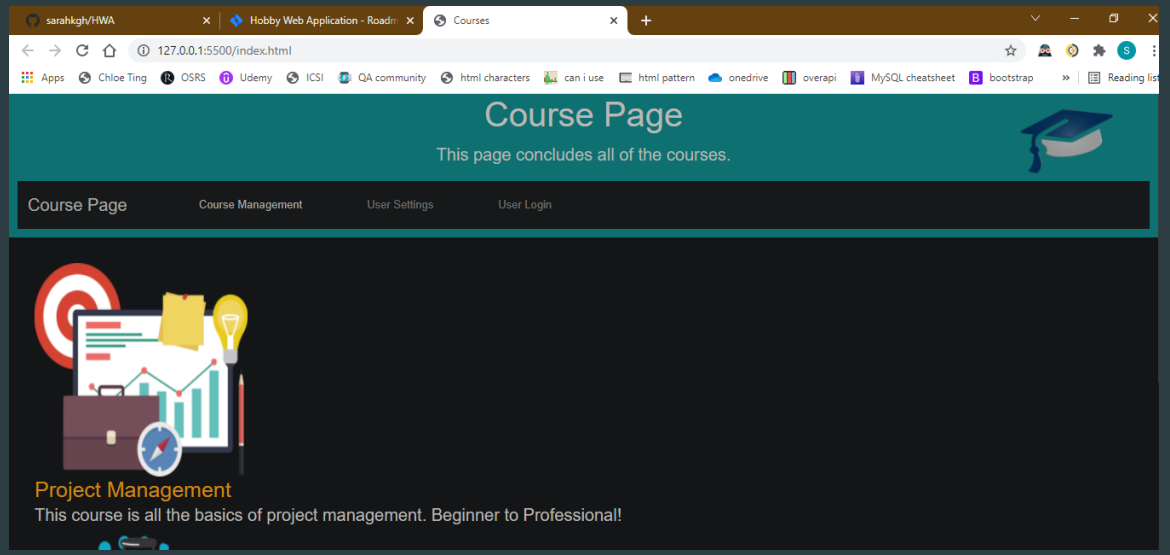
Course.java

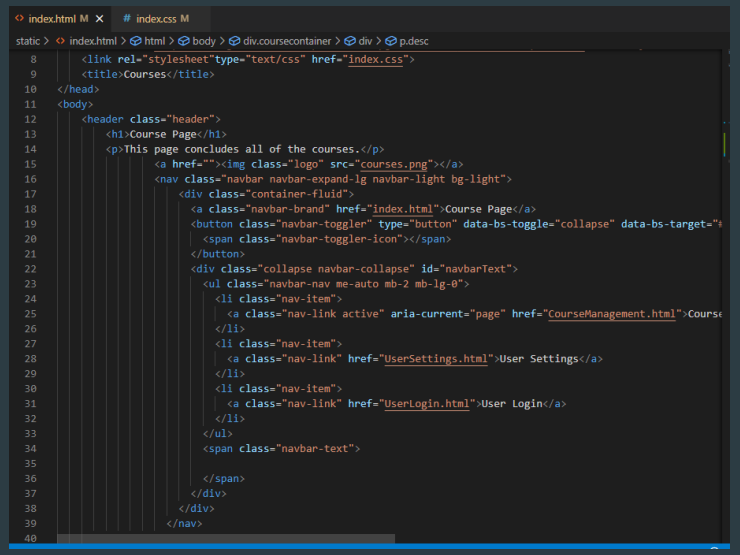
```java
package com.qa.hwa.domain;

import javax.persistence.Column;

@Data
@Entity
public class Course {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private int courseId;

    @Column(name = "courseName", nullable = false, unique = true)
    private String courseName;

    @Column(nullable = false)
    private String courseDescription;

    public Course(String courseName, String courseDescription) {
        this.courseName = courseName;
        this.courseDescription = courseDescription;
    }

}
```

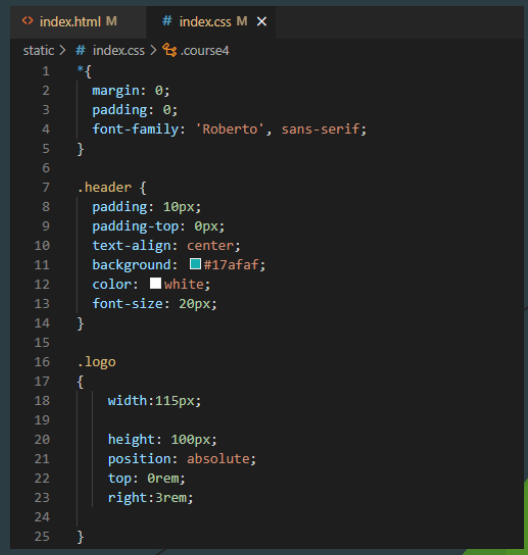


- I then worked on the front end of my application, first designing a main (index) html page then many pages branching from. There is consistency within all pages of the website. Css and Js pages were created for the html pages.



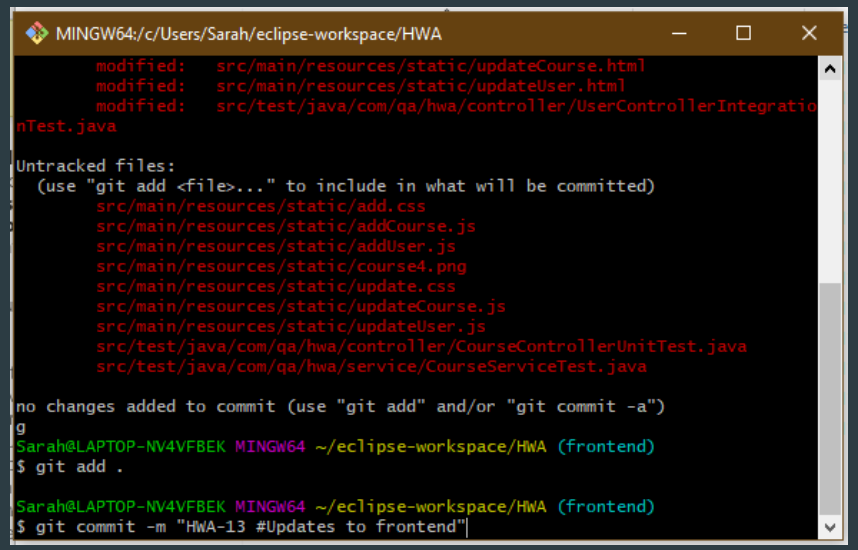



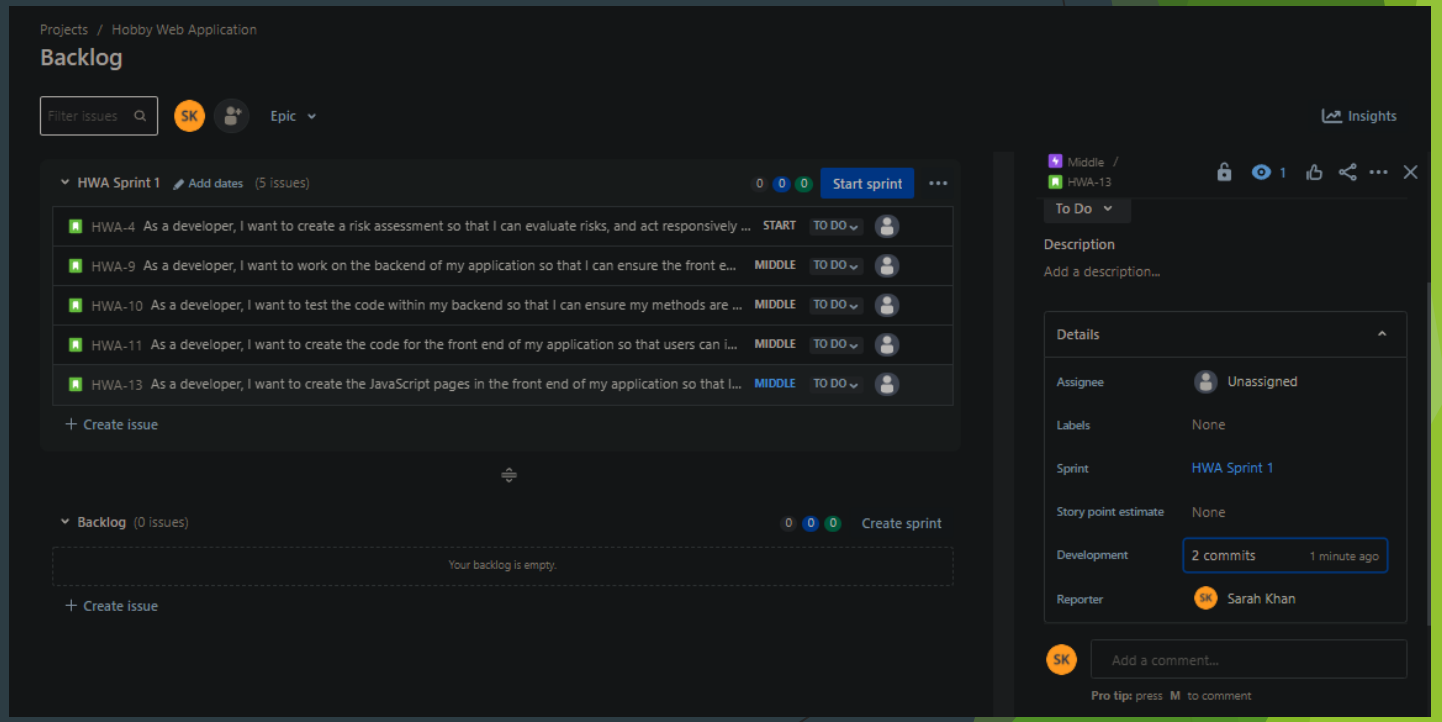




As I was less confident with front end coding, I found help online and from my tutor to create some of the elements.

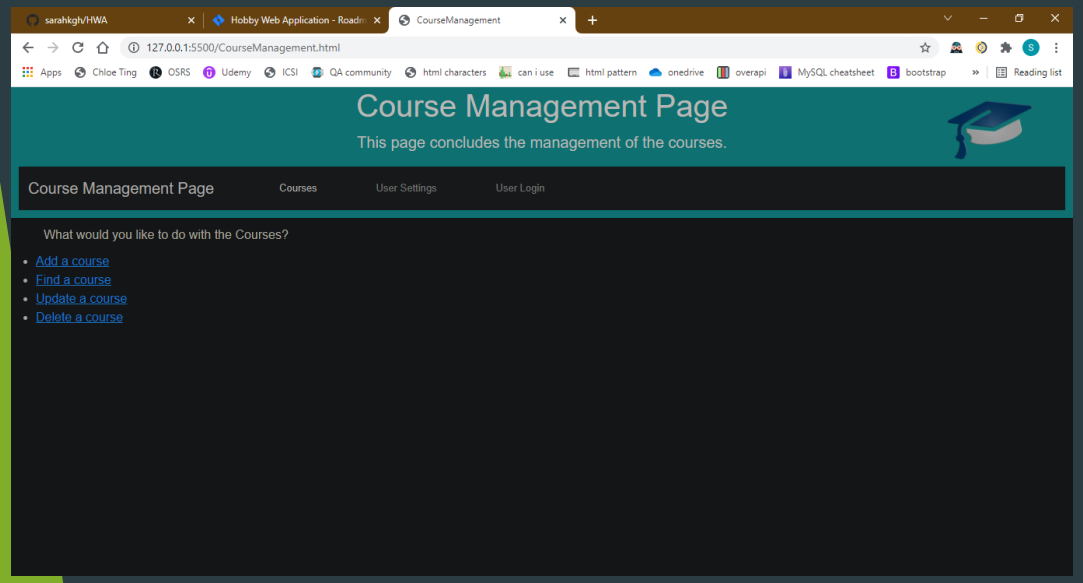
- Using GitHub, I could continuously back up all the changes I made to any code and these could be accessed at any time. I used the same commands on GitBash to regularly back up.

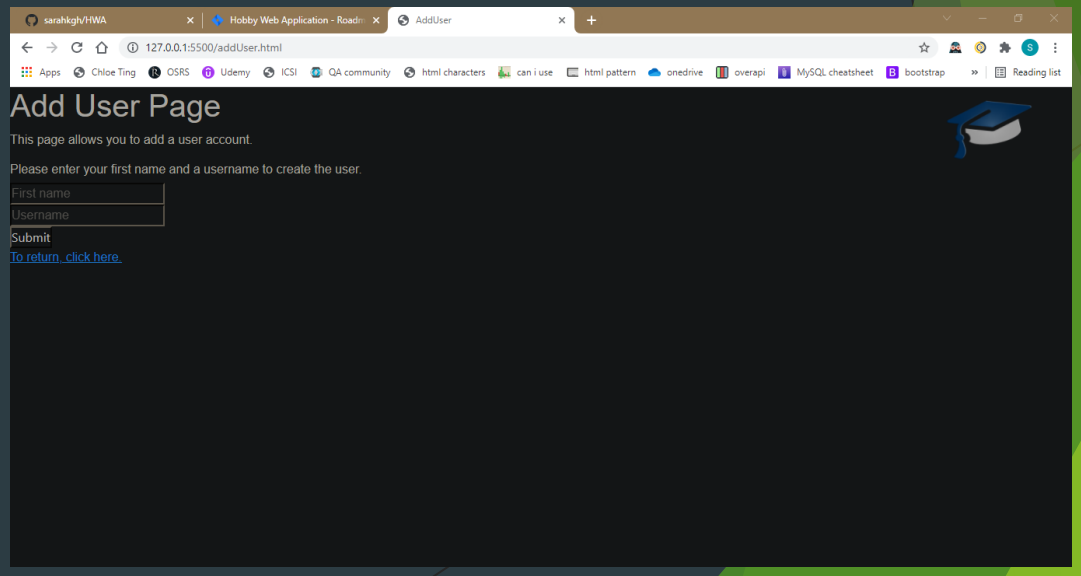


# Lessons learnt

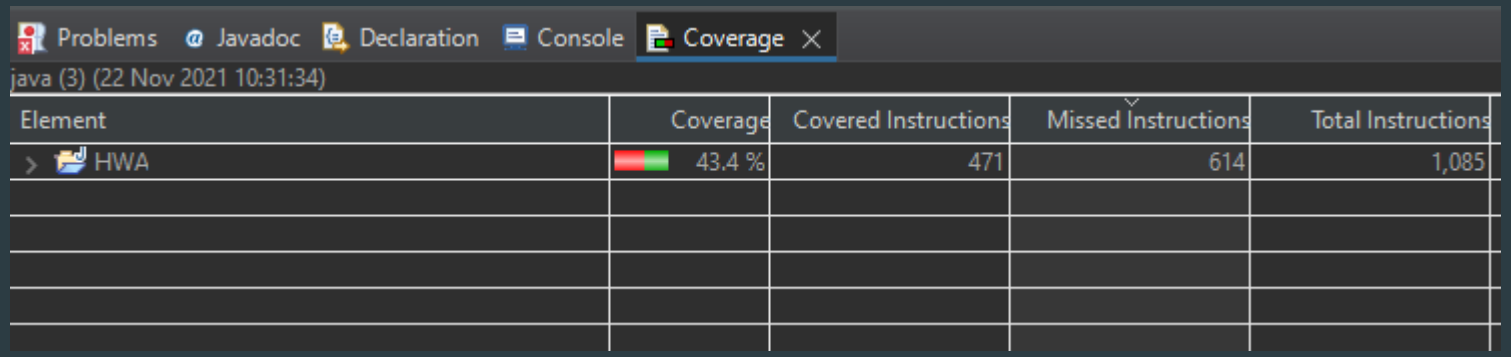
- During my consultant journey, I learnt to:
- Become more confident with the frontend (html, css, js) of the application.
- More familiarity with service, controller and repo classes.
- More understanding of tests.
- Being able to use postman.
- Work on a Spring Application.

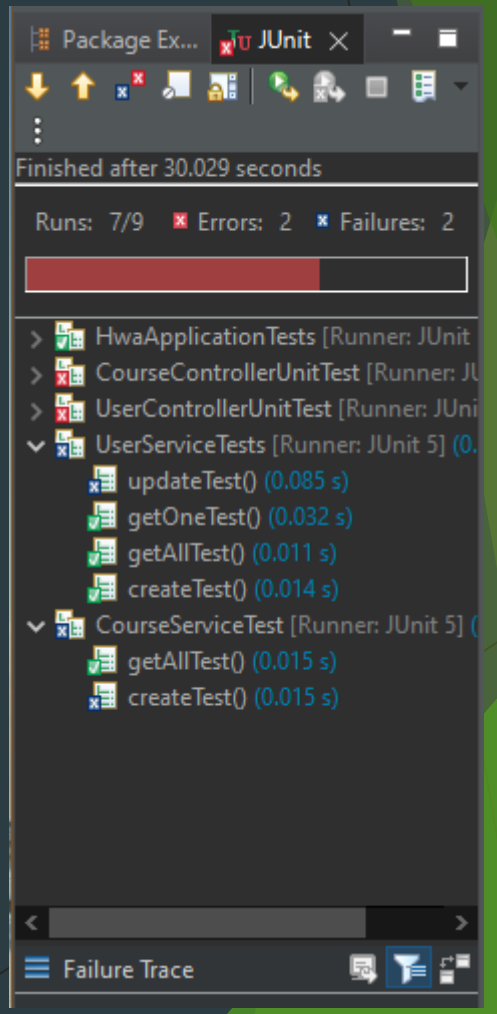


# Testing

- Methods within the service and controller classes were run and tested to ensure that they are functioning.



# Sprint review

- What went well: created two entities and their methods, created a consistent front end for the application, regularly used github to backup, a Jira storyboard to keep up with user stories.
- What could be improved: integration testing, a more professional frontend.
- The HWA has no errors and the application layers all relate to each other. It could be improved with refinement to the Junit testing, extra loggers to the console and further HTML elements  to improve the frontend.