HOBBY WEB APPLICATION

BY SAYED SAKKAF

INTRODUCTION

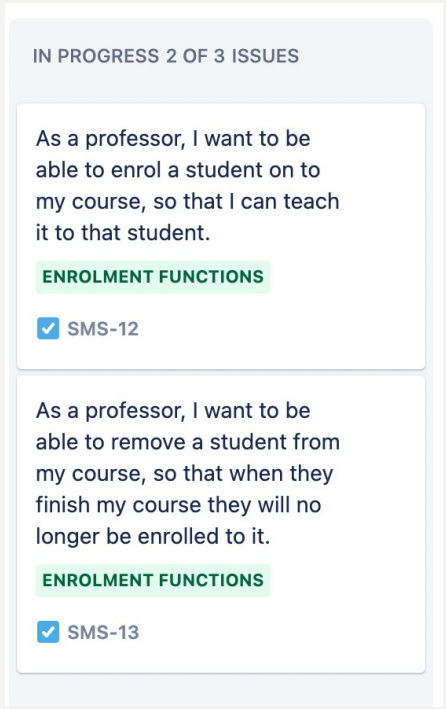
- My name is Sayed Sakkaf and welcome to my Hobby Web Application project presentation!
- My initial approach for completing this application was to first thoroughly read through the project brief to understand what would be expected of in in terms of a Minimum Viable Product.
- Having been given the creative freedom to choose what to do in terms of creation of our project, I began to conceptualize ideas that I would enjoy working towards and completing for this project.

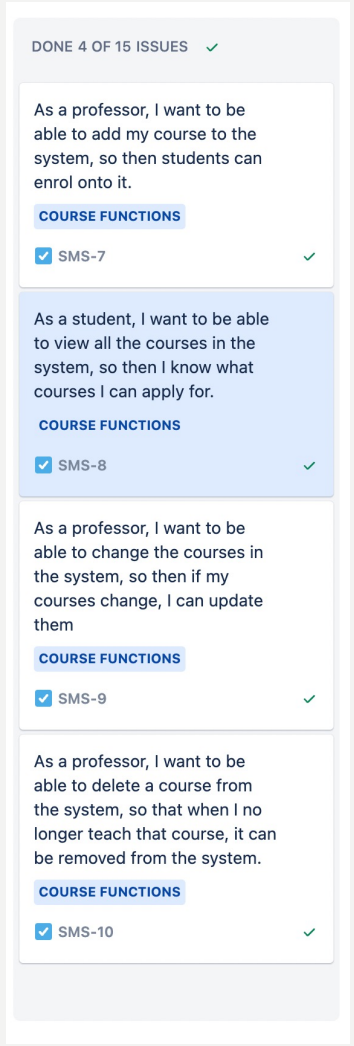
CONCEPT

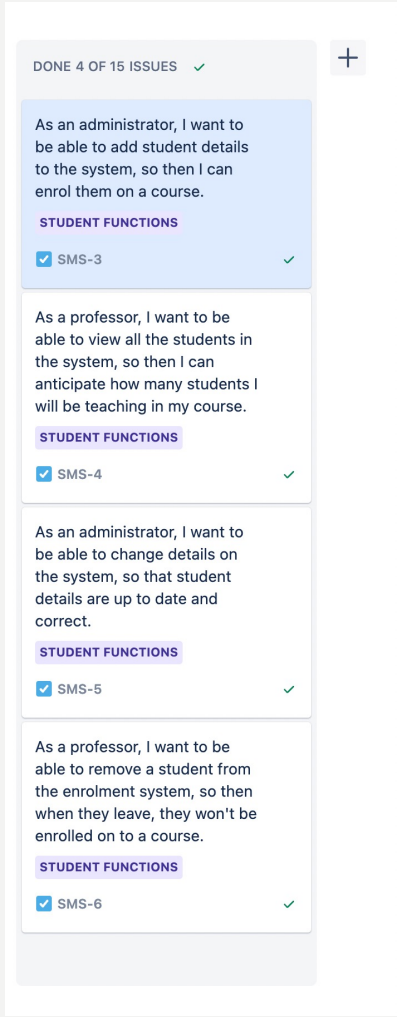
- The approach I took to conceptualizing this project was to understand both where and what I enjoy doing. I have been in education for all my life, and I enjoy learning so I decided to make a student management system where course administrators can use CRUD (Create, Read, Update, Delete) functionality with the entities Student and Course.

SPRINT PLANNING (KANBAN BOARD)

- For planning, I utilized Jira's Kanban Board.
- This allowed me to add different user stories under different epics, shown below:







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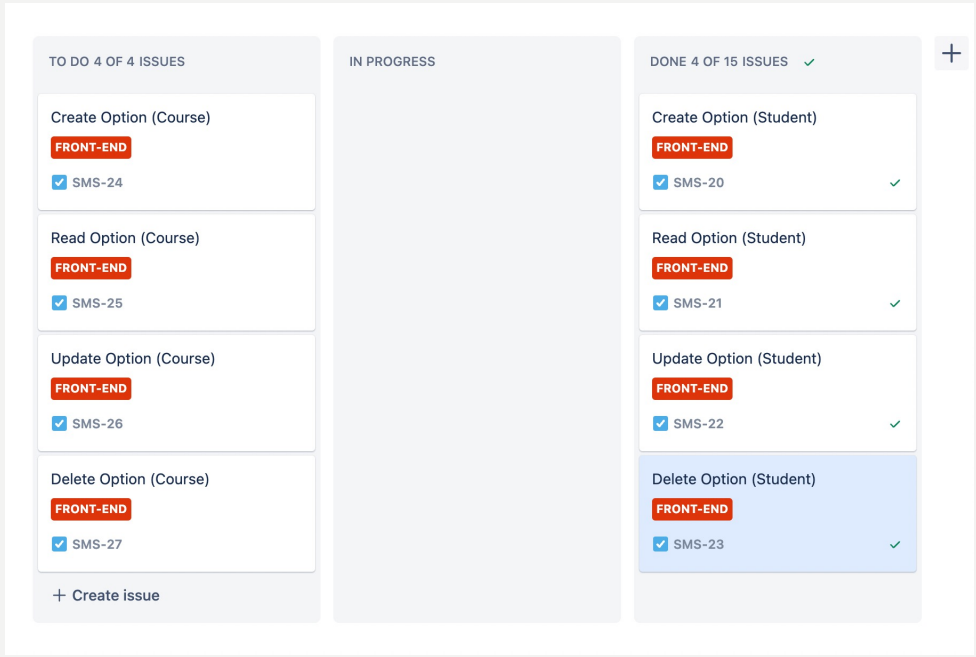
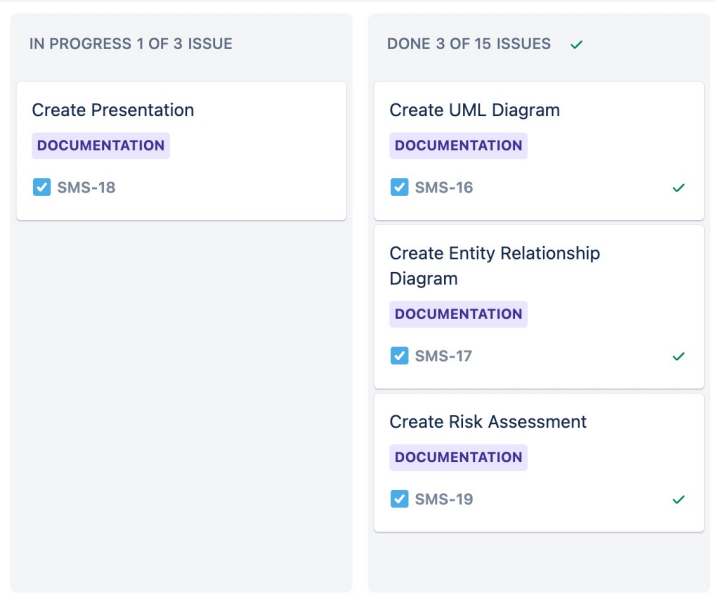




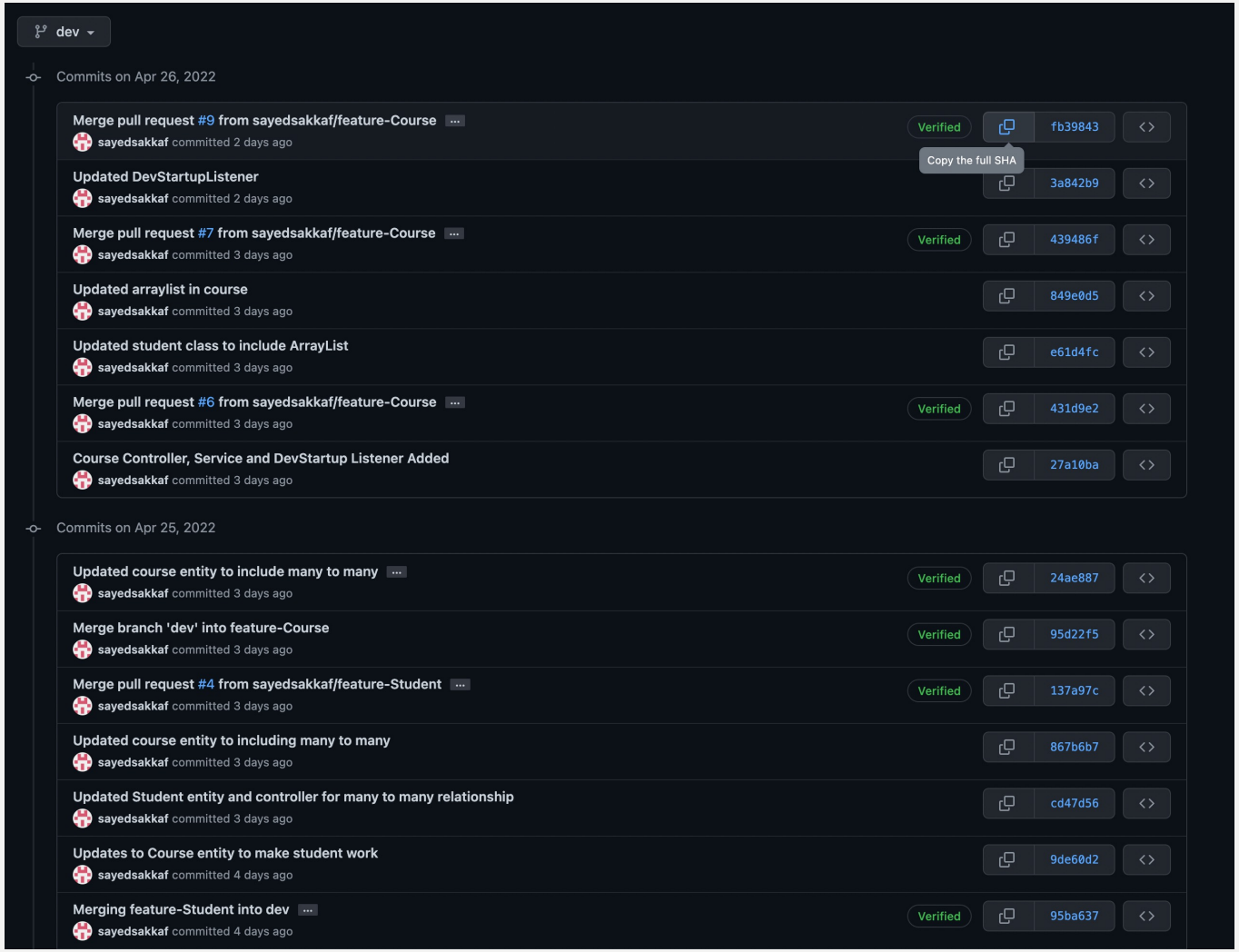
CONSULTANT JOURNEY

What have I learned so far for this project?

- **Technological constraints:**
  - Version Control: Git
  - Source Code Management: GitHub
  - Kanban Board: Jira
  - Database Management System: MySQL
  - Back-end: Java
  - API Development: Spring
  - Front-end: HTML, CSS, JavaScript
  - Build Tool: Maven
  - Unit Testing: Junit, Mockito

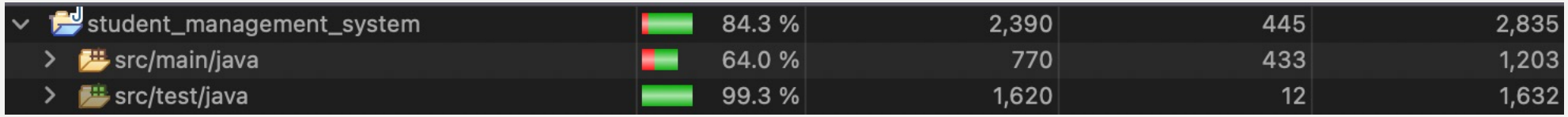
CONTINUOUS INTEGRATION

- For version control, I initialized the two folders I would be using for my front-end and back-end Git repositories. I then created a dev branch, and then incorporating the feature-Branch model to add new features and keep my integration clean. After having completed work on a specific feature-Branch, I would the merge the branch with dev, branching of into a new feature-Branch for a new feature.



TESTING

- Having attempted testing, I managed to achieve 63% coverage in src/main/java, I will go over this further in the demonstration



DEMONSTRATION OF BACK-END AND FRONT-END

SPRINT REVIEW

- When reviewing my sprints, I found myself constraint for time as I often found myself during the week trying to do a lot of things at once.
- My final deliverable had only 15 of the 22 issues completed.
- I constantly found myself reviewing the course material whilst working on the project which I felt really set me back in terms of timing.
- I didn't have enough time to implement my course or student_course functions.
- Overall, however, I was proud at the fact that despite my complete lack of experience prior to the academy, I was able to build a back-end and a front-end in the span of a week.

SPRINT RETROSPECTIVE

- Looking back at the project, I see many areas for improvement.
- Understanding my own abilities and working towards improve my comprehension of technical software.
- Proper time management, utilizing to-do lists, setting time frames via Jira and overall working on my ability to allocating enough time for tasks which may seem a bit easier.
- This would be evident with the fact that I spent too much time on my back-end, that my lack of experience with dealing with front-end software resulting in me not fully completing everything I wanted to complete (Course functions and Student_course functions).

CONCLUSION

- To conclude, I created a back-end which linked to a front end, and this application adhered to the CRUD functionality.
- I have learned how to create front-end projects using HTML, CSS and JavaScript and will be investing more time in creating my own project during my free time.
- I also learned however, that I still have more to learn when I comes to testing and Java overall so that will be something I will keep in mind.