

QA Project 2

QA

Introduction and Concept

I am Ben Phillips. Outside of my experience with QA I have little structured coding experience but I have been self teaching for up to a year.

I approached the specification with a specific logical order. First I wanted to order and finish any user stories that would be relevant and get them onto a Kanban board so it would be easy to find and see what the project needed.

Then I wanted to focus on the Spring api with a basic structure including JavaScript, CSS and a basic HTML page for a first commit.

Then I could focus on the backend to get the database working and the basic functionalities working before focusing on the next stage which would be testing.

Once everything was working, I wanted to focus on the front end to create the app interface that a user would be using.

Sprint Plan

With such a short time to deliver this project I had to think about the best way to organise the project.

Day 1 - User Stories and Kanban board and start with basic HTML features

Day 2 - HTML and JS utilisation

Day 3 - Focus on finishing backend and testing

Day 4 - Front end

Day 5 - Tidy up and documentation

Consultant Journey

The technologies that I have used for this project includes:

Maven - Dependency and Build Management

Git - Gitbash functionality for command line interface

Github - Repository management and integration with Jira for automatic Jira update

Confluence - Additional pages for risk matrices and further documentation

Mockito - Mocking dependencies for unit testing

Junit - Testing

MySQLWorkbench and Server

Jira - Kanban board and epic/stories visualisation

PlantUML - UML creation

CI and Testing

Version Control was managed with different branches using GitBash and GitHub. With this method I could push functioning code to the main branch for a working application interface and continue working on the code in the dev-feature1 branch. This also ensured that I had multiple states of code saved in a repository on github in case of a catastrophic data failure.

The testing was done with JUnit and Mockito and it covers all aspects of the application from the controllers to the services.

Demonstration

Enter the details you wish to add and click add to the database

To view the entry in the database, click view database

Avenger Database

First Name Last Name Power

ID

Avenger Database

Wanda Maximoff Telekenesis

ID

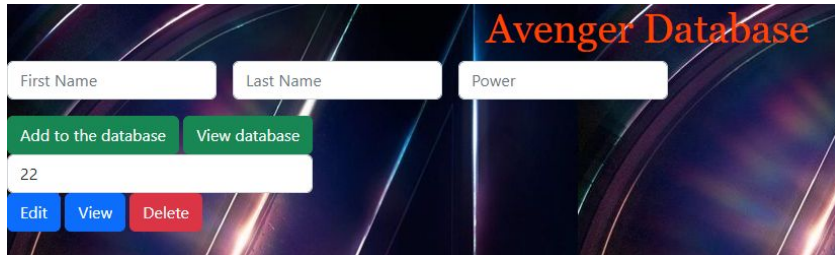
<input type="button" value="Add to the database"/>		<input type="button" value="View database"/>
ID		
Edit	View	Delete
Avenger ID: 1		
First Name: Sam		
Last Name: Wilson		
Power: Flying		
Avenger ID: 2		
First Name: Steve		
Last Name: Rodgers		
Power: asuper human strength and speed		
Avenger ID: 5		
First Name: Tony		
Last Name: Stark		
Power: Suit		
Avenger ID: 6		
First Name: Natasha		
Last Name: Romanov		
Power: Enhanced strength and speed		
Avenger ID: 7		
First Name: Carol		
Last Name: Danvers		
Power: Photon projection		
Avenger ID: 8		
First Name: Peter		
Last Name: Parker		
Power: the webs		
Avenger ID: 9		
First Name: Stephen		
Last Name: Strange		
Power: Magician		
Avenger ID: 22		
First Name: Wanda		
Last Name: Maximoff		
Power: Telekenesis		

Demonstration

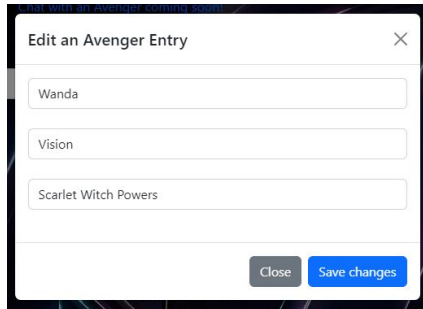
To edit an entry, enter the Id of the entry you wish to edit and then click edit

When the tab opens, enter the new information you wish to enter and click submit

The entry will then be changed



The interface features a dark background with glowing blue and purple lines. At the top right, the text "Avenger Database" is displayed in a stylized orange font. Below this, there are three input fields labeled "First Name", "Last Name", and "Power". Underneath these fields are two green buttons: "Add to the database" and "View database". Below the buttons is a text input field containing the number "22". At the bottom left, there are three buttons: "Edit" (blue), "View" (blue), and "Delete" (red).

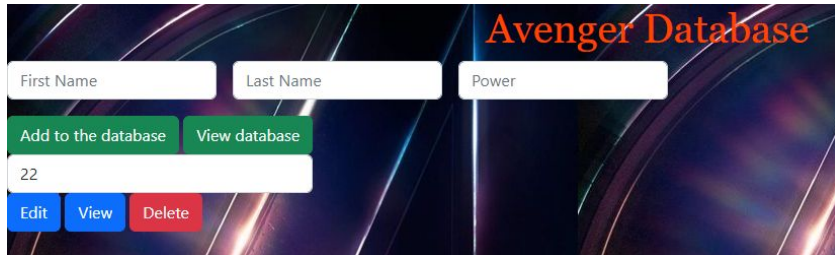


The modal is titled "Edit an Avenger Entry" and has a close button (X) in the top right corner. It contains three input fields: the first contains "Wanda", the second contains "Vision", and the third contains "Scarlet Witch Powers". At the bottom right, there are two buttons: "Close" (grey) and "Save changes" (blue).

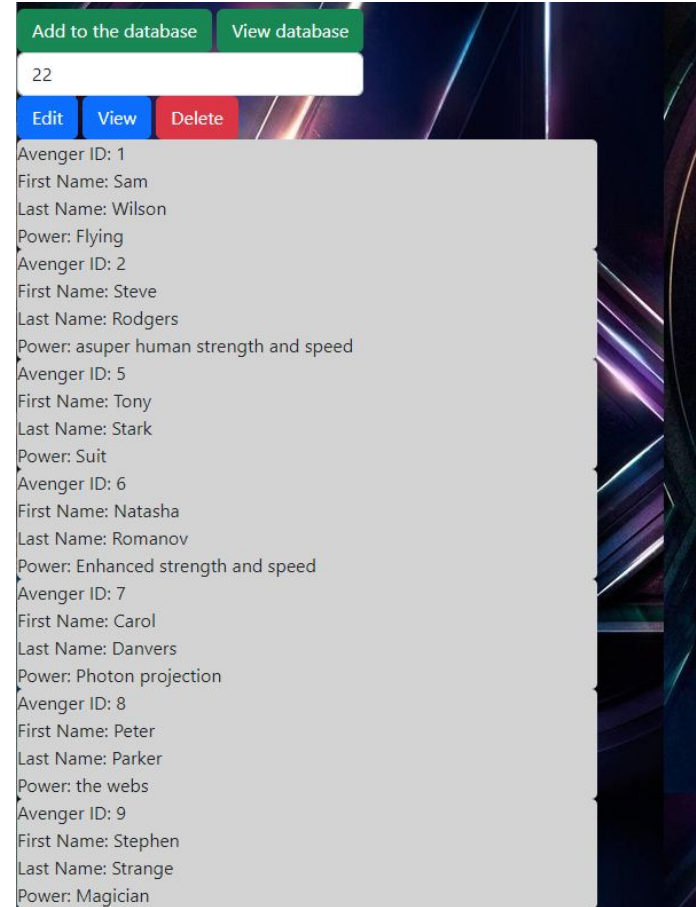
Avenger ID: 22
First Name: Wanda
Last Name: Vision
Power: Scarlet Witch Powers

Demonstration

To delete an entry, enter the Id of the entry you wish to delete and then click delete
The entry will then be deleted



The image shows a web application interface titled "Avenger Database" in orange text. It features three input fields for "First Name", "Last Name", and "Power". Below these fields are two green buttons: "Add to the database" and "View database". A search bar contains the number "22". Below the search bar are three buttons: "Edit" (blue), "View" (blue), and "Delete" (red).



The image shows the same web application interface as the previous one, but with a list of Avenger entries displayed on the right side. The list contains the following information:

- Avenger ID: 1
First Name: Sam
Last Name: Wilson
Power: Flying
- Avenger ID: 2
First Name: Steve
Last Name: Rodgers
Power: asuper human strength and speed
- Avenger ID: 5
First Name: Tony
Last Name: Stark
Power: Suit
- Avenger ID: 6
First Name: Natasha
Last Name: Romanov
Power: Enhanced strength and speed
- Avenger ID: 7
First Name: Carol
Last Name: Danvers
Power: Photon projection
- Avenger ID: 8
First Name: Peter
Last Name: Parker
Power: the webs
- Avenger ID: 9
First Name: Stephen
Last Name: Strange
Power: Magician

Sprint Review

I believe the sprint went well, however I did get stuck on a few basic syntax errors such as brackets where they shouldn't have been. Unfortunately on one of the days I was without wifi for half of the day which slowed me down.

I am pleased with the output that was achieved and with only one of the targeted user stories being unachieved, I believed a lot was accomplished.

Sprint Retrospective

I think more could have been done with the CSS aspect of the project as the design and layout of the application is not up the standard that I wanted. I wanted the application to flow and have a user friendly design which I believe it currently does not have.

I think this is down to the lost time and how I got stuck with certain aspects of the project but in future sprints/projects I will be able to organise my time better.

Conclusion

In conclusion I am pleased that the basic functionality for the project was achieved (CRUD) but I am not happy with the design or layout. It looks unprofessional and not user friendly at all. However with the amount that was achieved in the 5 days allotted with the setbacks that were presented, I believe a lot was achieved.

I believe the testing could have gone better as I believed that with the short time given, my time was better spent in getting the front end off of the ground rather than spending it on the testing when the application worked on the front end.