Practical Project Specification

22MayEnable2

Introduction

- The week9 Project involved creating an OOP-based application with CRUD (Create, Read , Update and Delete).

- A Database with a Book entity.

- Creating an interactive user friendly local hosted site.

Tools

- Back-end:
  - ✓ Java using Spring Boot and Maven
  - ✓ For testing: JUnit
  - ✓ My SQL database
- Front-end:
  - ✓ JavaScript, HTML, CSS
 - ✓ Bootstrap
- Jira
- GitHub

Risk Assessment:

| Risk	Risk Statement	Response Strategy	Objectives	Likelihood	Impact	Risk Level
Illness	The rate of completing the project will be negatively impacted due to illness	Rest and create a project plan that can account for the time loss due to illness	To protect your health and recover as well as reduce the impact of time lost	Medium	High	8
Internet Failure	The rate of completing the project will be negatively impacted due to illness	Contact network provider and/or use your phone to connect to the internet for short-term internet access.	To ensure the completion of the project objectives on time by reducing the impact of losing internet connectivity.	Low	Medium	4
Technical Difficulties	mistakenly erasing your entire project, or sections of my project from your computer.	Ensure all files are routinely pushed on GitHub so that data may be cloned from the repository in the event of a loss.	To ensure access to the website throughout development and post deployment.	Low	High	7
Loss/Broken of laptop	A broken laptop would result in not being able to complete the project	Have another device that is accessible to you, that allows the download all of the necessary software for this project and use GitHub to clone your recent progress	To ensure access to yuour work regardless of which device.	Low	High	7
GitHub Failure	GitHub servers going down leads to temporarily not having access to your repository or to losing data and development progress	Make a regular hard backup on a non-cloud service	To ensure you don't loose your work	Low	High	7
Failure to Meet Project Deadline	Poor time management leading to the product not being deployed by the deadline	Ensure project is planned thoroughly and managed throughout.	Finish project on time and to a good standard.	Low	High	7
Hardware Failure	Renewals aren't carried out for web server and domain names leading to website outages until contracts are renewed.	Ensure that all contracts are available to be viewed by relevant parties, and calendar entries are set up with remonders, while also setting up email notifications for when renewals are due.	Prevent the domain name from being lost and having outages due to the web server being removed as it is no longer in service.	Low	High	7
Joint Pains	Constantly sitting could lead to a negative impact on the physical body	It is important to stand and stretch every hour to prevent joint pains	To protect your health and ensure you're not damaging your physical body	High	Medium	6

		Impact		
		Low	Medium	High
Liklihood	Low	1	4	7
	Medium	2	5	8
	High	3	6	9

MoSCOW

Must have:	Should have:	Could have:	Won't have:
✓ Working OOP application.	✓ A search function to find the books in their reading list.	✓ A user login page.	✓ Adverts.
✓ User must be able to create/read/update/delete.	✓ A home page.	✓ Images attached to each book in the reading list.	✓ Cookies.
✓ Data has to be displayed in an easy to read manner.		✓ A comment section for each book.	
✓ A test coverage of 80%.			

Entity relationship diagram

UML diagram
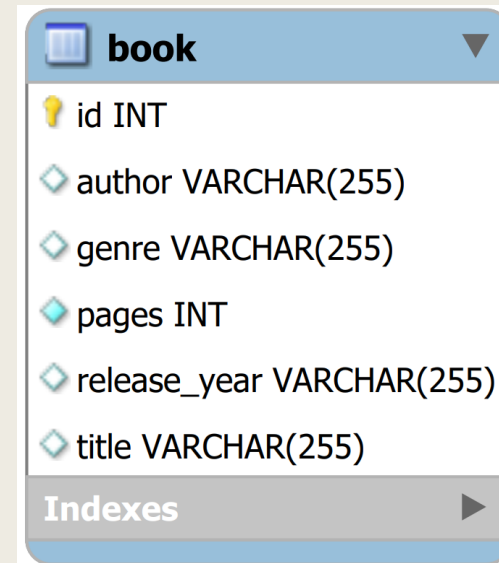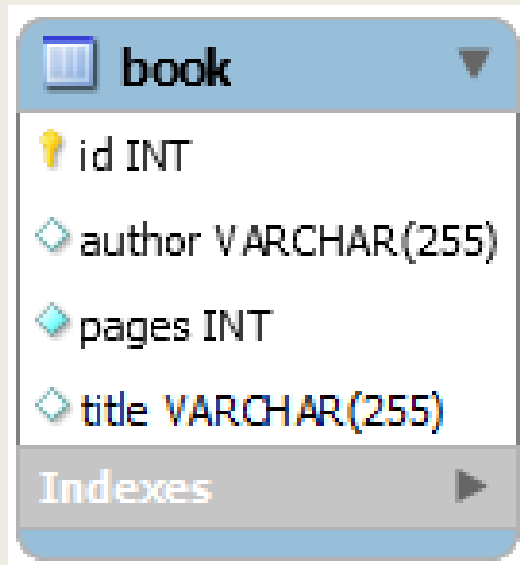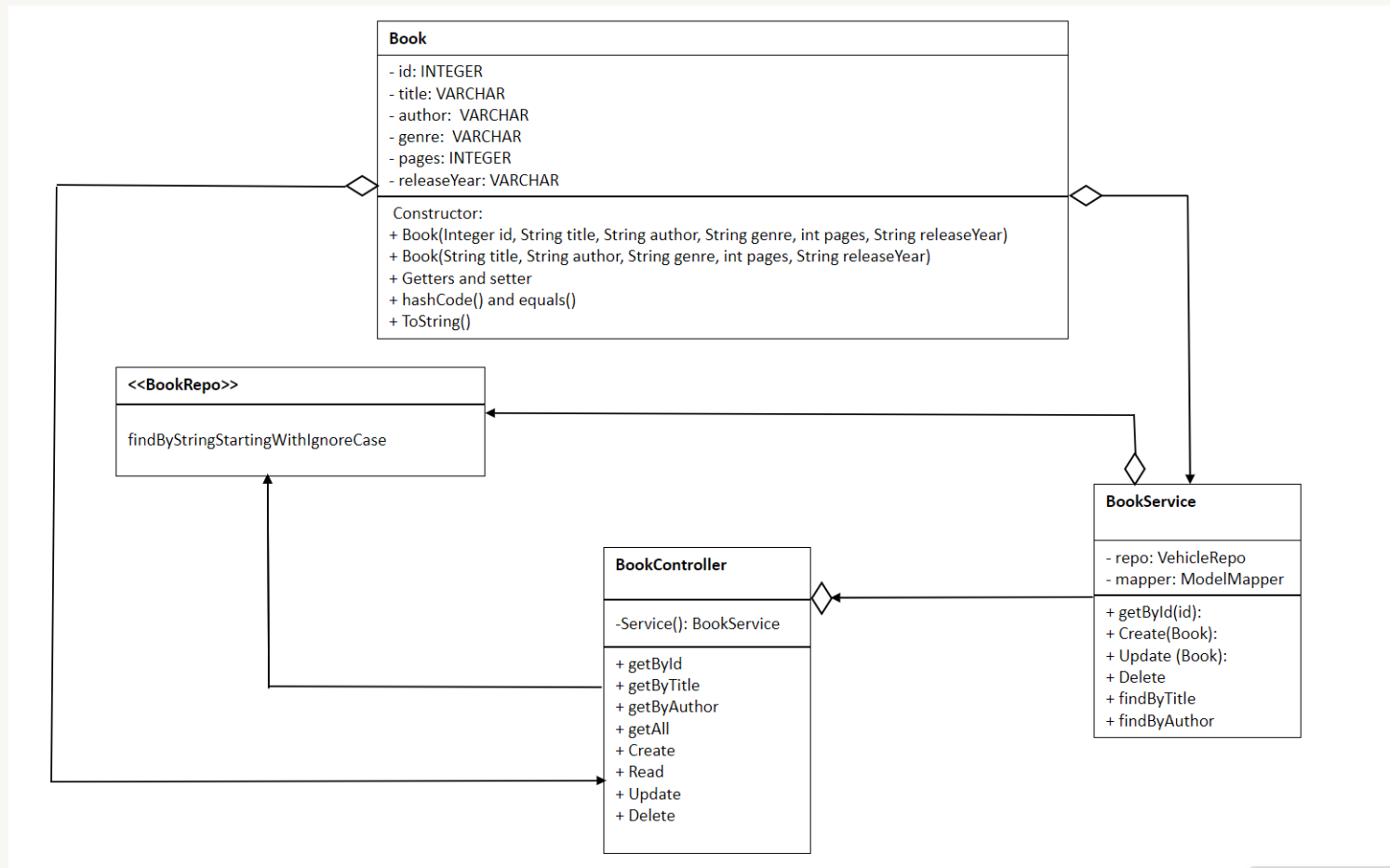
ReadingList Sprint

Epic ✕

Issues without epic

> 🟥 Testing

> 🟩 Front-End

> 🟦 Back-end

> 🟪 Documentation

\+ Create Epic

∨ **Week 9 - ReadingList** 28 Jul – 29 Jul (19 issues)   0 3 61   **Complete sprint** •••
complete Software Core - Practical Project Specification

🔖	~~HB-122~~ As a developer, I need to create book repo class	**BACK-END**	4	DONE ∨	👤
🔖	~~HB-123~~ As a developer, I need to create book entity class	**BACK-END**	2	DONE ∨	👤
🔖	~~HB-125~~ As a developer, I need to create book rest class	**BACK-END**	2	DONE ∨	👤
🔖	~~HB-124~~ As a developer, I need to create book service interface	**BACK-END**	4	DONE ∨	👤
🔖	~~HB-129~~ As a developer, I need to Create book service DB	**BACK-END**	4	DONE ∨	👤
🔖	~~HB-130~~ As a developer, I need to Create Application properties	**BACK-END**	2	DONE ∨	👤
🔖	~~HB-132~~ As a developer, I need to Create book-schema	**BACK-END**	5	DONE ∨	👤
🔖	~~HB-133~~ As a developer, I need to create book data	**TESTING**	2	DONE ∨	👤
🖼	~~HB-137~~ As a developer, I need to Create risk assessment	**DOCUMENTATION**	1	DONE ∨	👤
🔖	~~HB-139~~ As a developer, I need to Create ERD	**DOCUMENTATION**	1	DONE ∨	👤
	~~HB-140~~ As a developer, I need to Create UML	**DOCUMENTATION**	2	DONE ∨	👤
	~~HB-141~~ As a developer, I need to Create Powerpoint	**DOCUMENTATION**	6	DONE ∨	👤
	~~HB-142~~ As a developer, I need to use JUnit to test repo	**TESTING**	5	DONE ∨	👤
	As a developer, I need to Create index.html - Homepage	**FRONT-END**	3	DONE ∨	👤
	~~HB-145~~ As a developer, I need to Create book.html CRUD page	**FRONT-END**	7	DONE ∨	👤
	~~HB-147~~ As a developer, I need to create search-box.html search page	**FRONT-END**	5	DONE ∨	👤
	As a developer, I need to add Style.ccs	FRONT-END	4	DONE ∨	👤
	HB-149 As a developer, I need to create ReadMe.md file	DOCUMENTATION	3	IN PROGRESS ∨	👤
	~~HB-150~~ As a developer, I need to use JUnit to test entity class	**TESTING**	2	DONE ∨	👤

\+ Create issue

User Stories with Tasks

Back-end /
HB-130

As a developer, I need to Create Application properties

Done ✓ Done

Description

Add a description...

Child issues
Order by ▾

100% Done

HB-156	create a application pr...	-		DONE ▾
HB-157	create a application-p...	-		DONE ▾
HB-158	create a application-te...	-		DONE ▾

Details ▴

Assignee	Unassigned Assign to me
Labels	None
Sprint	Week 9 - ReadingList
Story point estimate	2
Development	Create branch ▾ Create commit ▾

HB | Add a comment...

Pro tip: press M to comment

GitHub

• For this project, I had to create multiple feature and work within them branches to then be merged with my develop branch.

• My main branch remained the same during the project until my software was functioning, passes testing to an industry standard and packages correctly.

Version Control

Each epic = new feature

In Develop branch a feature branch was created by using:

"git checkout –b feature"

After each feature is done:

◦ Git add .

Then "git commit –m "…""

"git push"

Merge with dev branch in GitHub

To pull to my local in Git bash terminal:

"git pull" in develop branch

Create new feature branch
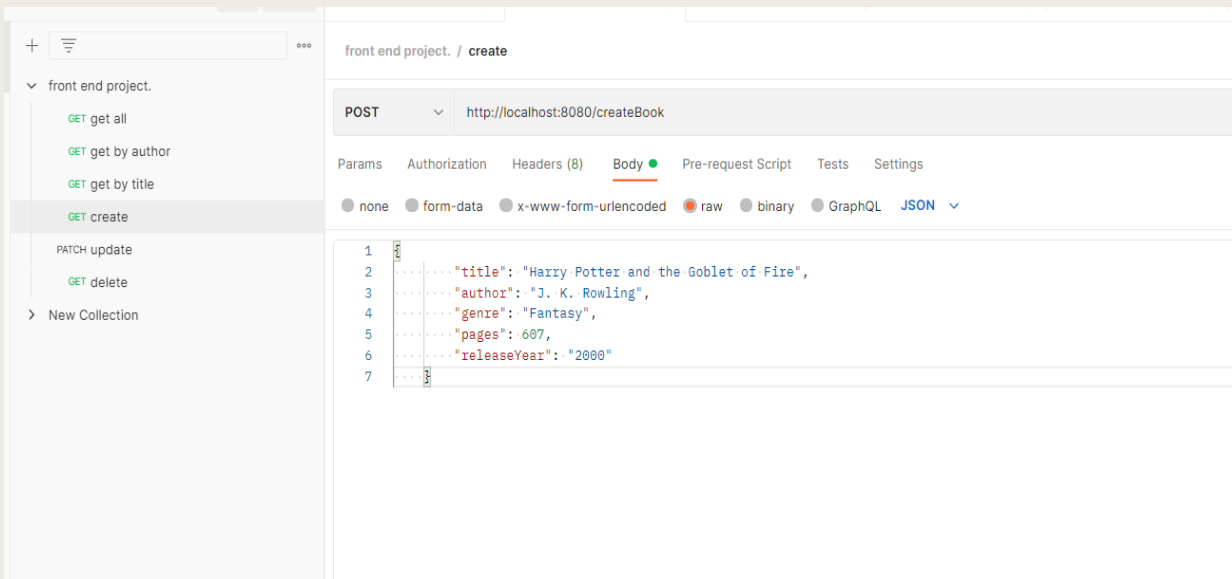
Front-end

Design:

- HTML

- Bootstrap

- CSS

JavaScript:

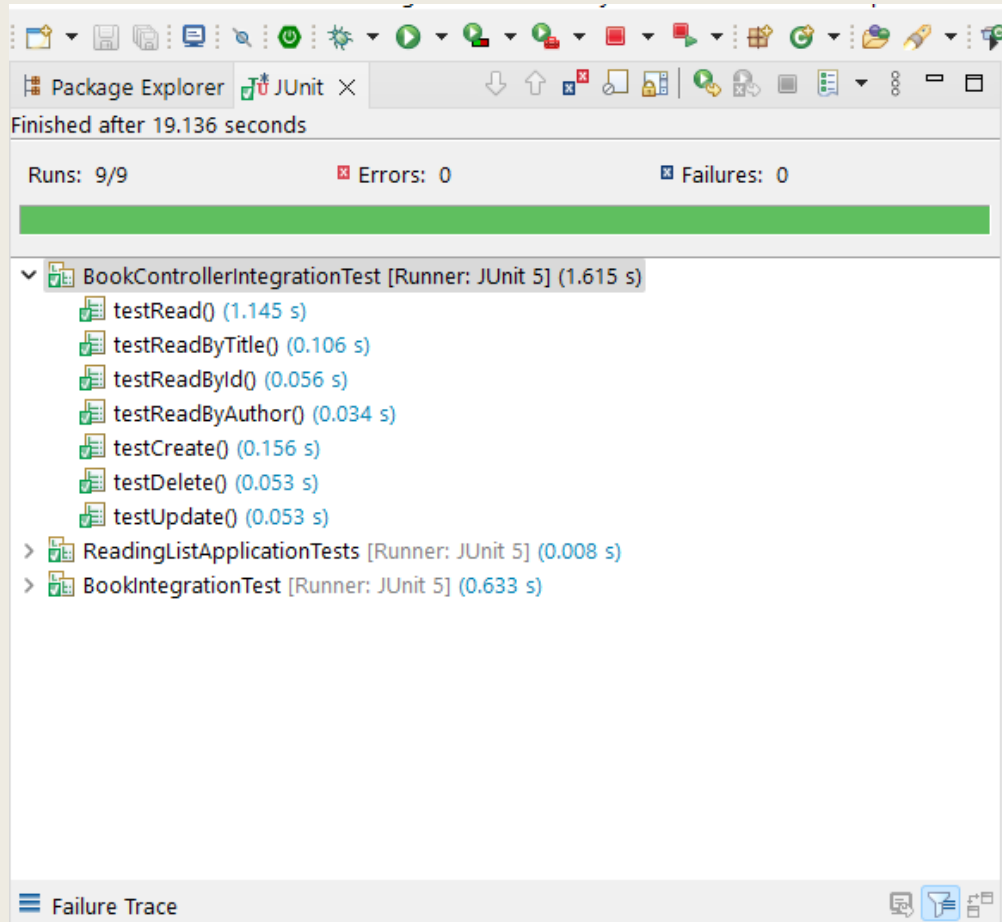- Adds interactive features

- Fetch API

- Retrieve data

H2-Console

- Manual testing.

- Let's you access a database using a browser.
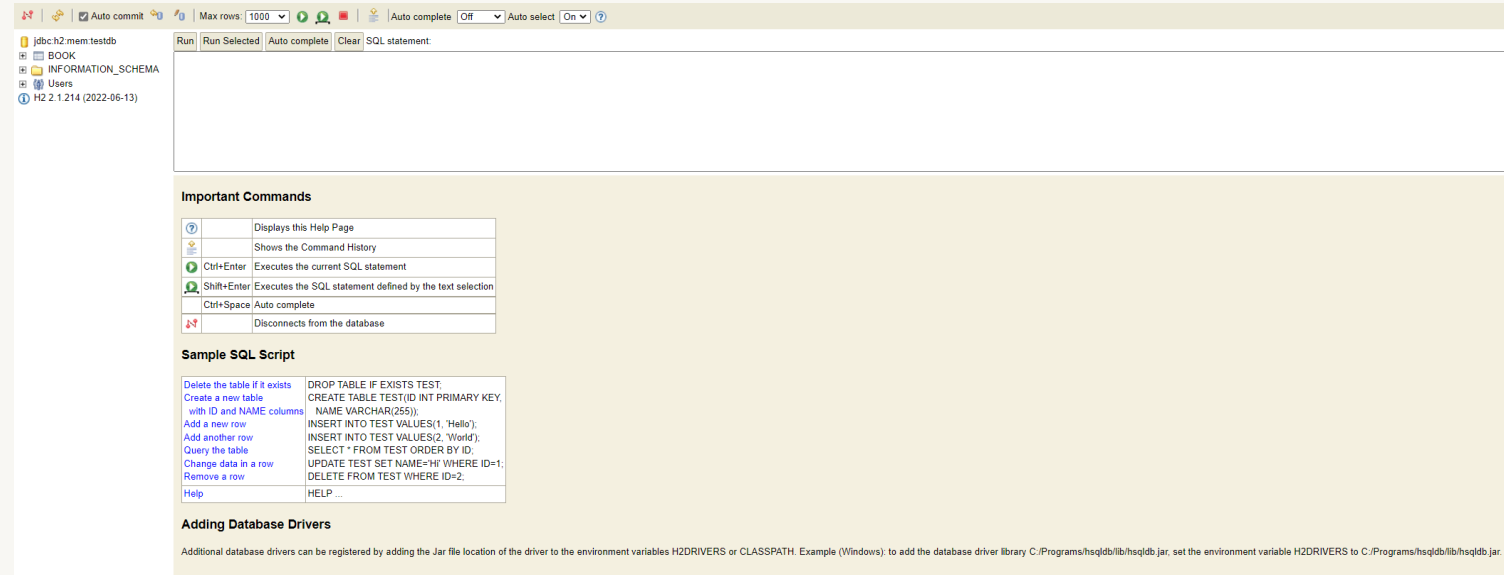
Postman

- Manual testing.
- **T**o build a request to send to the local server, and log entries the entries

MockMvc Testing

o To test the HTTP request and ensure it passes by testing the Controller class

Test Coverage

Demonstration

Performance Review

18 out of 19 issues were completed, with ReadMe file in progress.

Minimum set of requirements completed.

Most of Must have/Should have were completed.

User Friendly application with CRUD functionality.