Hobby project - Movie watch list

Harry Emmett

Introduction and technologies used

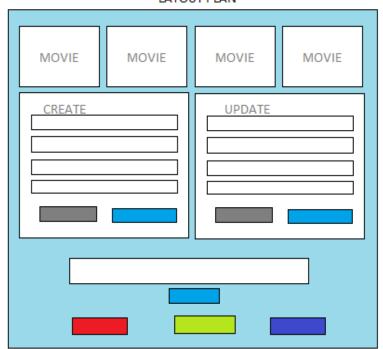
- Backend Language: Java + Spring framework
- Frontend Languages: JavaScript, HTML, CSS with Bootstrap framework
- Version control: Git / GitHub
- ► Tests: Mock MVC controller integration test
- Database: mySQL + H2
- Project management: Jira
- Other: Postman

How I approached the project

- ▶ Planning Jira board, Mock webpage, MoSCow, Application design flow diagram.
- Risk assessment.
- Version control.
- Backend build.
- Frontend build.
- ▶ Time management.

Planning and preparation

LAYOUT PLAN



Movie application requests

Spring

CREATE: @PostMapping("/createMovie")

READ: @GetMapping("/getAll"), @GetMapping("/get/{id}")

UPDATE: @PutMapping("/replace/{id}")

DELETE: @DeleteMapping("/remove/{id}")

GET GENRE: @GetMapping("/getByGenre/{genre}")

GET PLATFORM: @GetMapping("availableOn/{platform}")

GET NAME: @GetMapping("getByName/{movieName}")

Front-end

CREATE: axios.post("http://localhost:8080/createMovie")

READ: axios.get("http://localhost:8080/getAll")

UPDATE: axios.put('http://localhost:8080/replace/\${movie.id}', movieUpdateData)

DELETE: axios.delete('http://localhost:8080/remove/\${movie.id}')

GET GENRE: axios.put('http://localhost:8080/replace/\${movie.id}', movieUpdateData)

GET PLATFORM: axios.get('http://localhost:8080/availableOn/\${platform}')

GET NAME: axios.get('http://localhost:8080/getByName/\${searchName}')



Hobby Project - MoSCoW

Must have

Backend create, read, update and delete functionality.

Frontend create, read, update and delete functionality.

Ability to interact with a webpage to achieve the CRUD functions.

Project management board.

Include documentation regarding the system.

Integrated into version control.

Some styling.

Should have

Update and delete item button on each item, rather than by ID.

More styling than the MVP requires webpage styling.

Find item by name rather than by ID.

Bootstrap styling.

Search buttons by item wanted.

Update form that pops up.

Could have

Counter displaying number of items.

Hover over styling.

Won't have

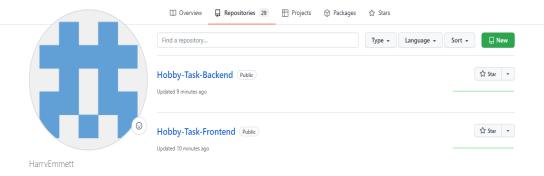
Technologies not covered during training.

Risk assessment

Matrices					
	Negligible	Minor	Major	Hazardous	Catastrophic
Unlikely	Low	Low	Low medium	Medium	Medium
ely	Low	Low Medium	Low medium	Medium	Medium High
erate	Low	Low Medium	Medium	Medium High	Medium Hlgh
1	Low	Low medium	Medium	Medium high	High
Likely	Low medium	Medium	Medium high	High	High
-	Statement	Response	Likelihood	▼ Impact	Risk Level
		To combat this you should take regular breaks with recommended stretches or wear suppor	t		
tetive Strain Injury (RSI)	Low Low Medium Low Medium Low Medium Low Medium Medium Medium Low Medium Need to: Unexpected illness can come at anytime and should be handled appropriatley. If unable to continue must inform trainers and see a doctor if appropriate. Low Medium Need to: Save work frequently and as often as possible, if this leads to unsaved work consult your Unsaved Broken equipment can lead to unsaved work or the total loss of a project. Handle personal items with care to ensure items stay in working condition. Medium Unsaved Working from home can lead to a project being exposed to children or other hazards. Faulty equipment or freak incident. Upload to Git regularly. Low Medium High Unsable Consult regularly.	May be unable to type			
		To combat this you should take regular breaks and consult an optician if there is pain			
train	Long hours using the computer may lead to eye strain.	associated with looking at a computer screen.	Medium	Need to see optician	
5	Unexpected illness can come at anytime and should be handled appropriatley.	If unable to continue must inform trainers and see a doctor if appropriate.	Low Medium	Need to see a doctor	
		Save work frequently and as often as possible, if this leads to unsaved work consult your			
r outage	Unexpected power outage can happen at any time so this should be taken into account when completing a project.	trainer.	Low Medium	Unsaved work	
ment breaking	Broken equipment can lead to unsaved work or the total loss of a project.	Handle personal items with care to ensure items stay in working condition.	Medium	Total loss of project	
y emergency	Unavaoidable situations can arise at any time.	Consult trainer.	Medium High	Unable to complete	
ing from home	Working from home can lead to a project being exposed to children or other hazards.	Ensure than important equipment is stored safely.	Medium High	Loss of work	
orruption	Faulty equipment or freak incident.	Upload to Git regularly.	Low Medium	Loss of work	
shortage	Not able to finish on time.	Stay concentrated and work efficiently.	Low Medium	Uncompleted project	
Shortage	Not able to limish on time.	stay concentrated and work entitlently.	Low Medium	Oncompleted project	

Version control

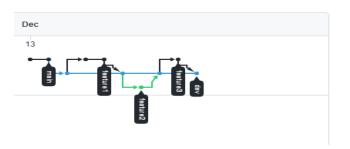
Two repos used

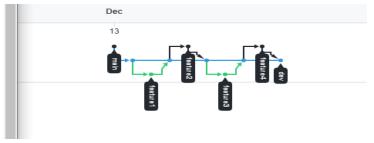


FMB and deleting branches

```
MINGW64:/c/Users/local_admin/workspace1/Spring-movies
Counting objects: 100% (50/50), done.
Delta compression using up to 8 threads
Compressing objects: 100% (18/18), done.
Writing objects: 100% (28/28), 3.80 KiB | 1.27 MiB/s, done.
Total 28 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
remote: Create a pull request for 'feature2' on GitHub by visiting:
            https://github.com/HarryEmmett/Hobby-Task-Backend/pull/new/feature2
remote:
remote:
To github.com:HarryEmmett/Hobby-Task-Backend.git
 * [new branch]
                  feature2 -> feature2
 ocal_admin@PNKLAJ041917 MINGW64 ~/workspace1/Spring-movies (feature2)
$ git checkout dev
Switched to branch 'dev'
 ocal_admin@PNKLAJ041917 MINGW64 ~/workspace1/Spring-movies (dev)
$ git pull origin dev
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
Unpacking objects: 100% (1/1), 643 bytes | 321.00 KiB/s, done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
From github.com:HarryEmmett/Hobby-Task-Backend
                              -> FETCH_HEAD
* branch
  903d4fc..b6d252d dev
                               -> origin/dev
Updating 903d4fc..b6d252d
Fast-forward
src/main/java/com/bae/movies/repo/MovieRepo.java | 16 ++++-
.../java/com/bae/movies/service/MovieService.java | 21 ++++++
 .../com/bae/movies/service/MovieServiceDB.java
                                                  84 ++++++-----
 .../java/com/bae/movies/web/MovieController.java
                                                  src/main/resources/application-prod.properties
src/main/resources/application-test.properties
                                                    8 +++
src/main/resources/application.properties
                                                   12 ++++
src/main/resources/movie-data.sql
src/main/resources/movie-schema.sql
                                                   9 +++
.../web/MovieControllerIntergrationTest.java
                                                   12 ++++
10 files changed, 225 insertions(+), 3 deletions(-)
  ocal_admin@PNKLAJ041917 MINGW64 ~/workspace1/Spring-movies (dev)
$ git branch -d feature2
Deleted branch feature2 (was 87c2094).
 ocal_admin@PNKLAJ041917 MINGW64 ~/workspace1/Spring-movies (dev)
$ git checkout -b feature3
Switched to a new branch 'feature3'
 ocal_admin@PNKLAJ041917 MINGW64 ~/workspace1/Spring-movies (feature3)
```

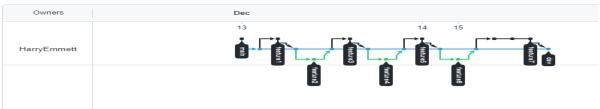
Feature branch model





Network graph

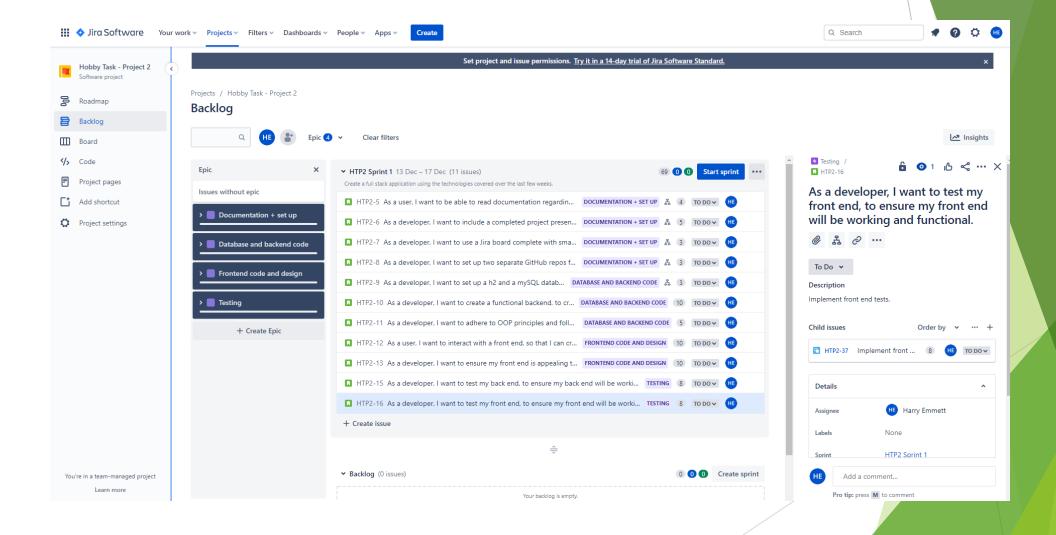
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



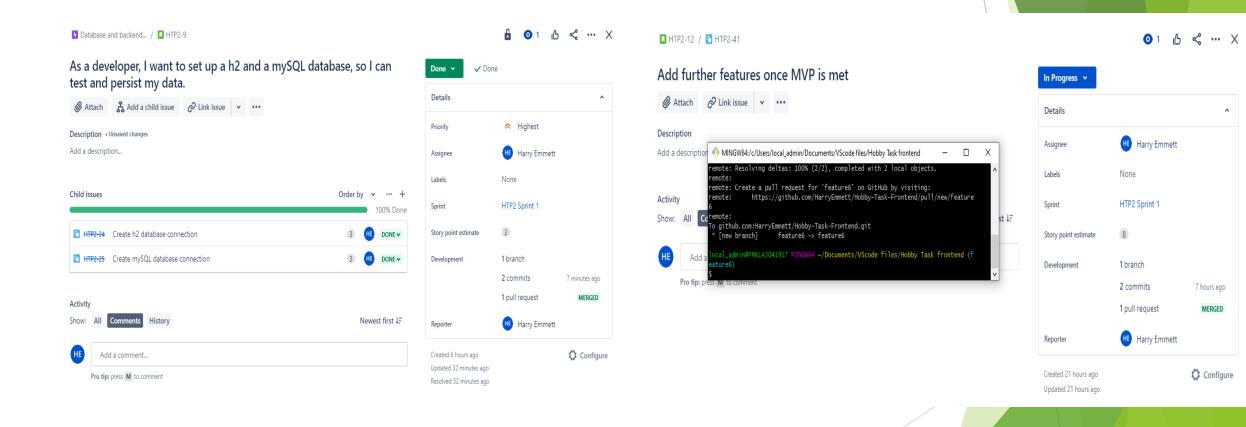
neline of the most recent commits to this repository and its network ordered by most recently pushed to.



Jira

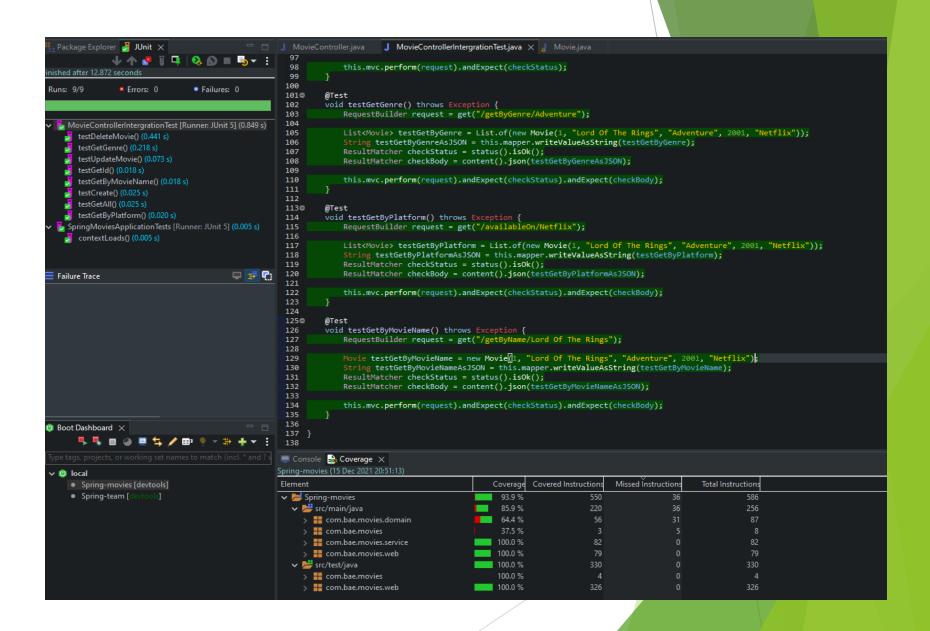


Jira continued - smart commits

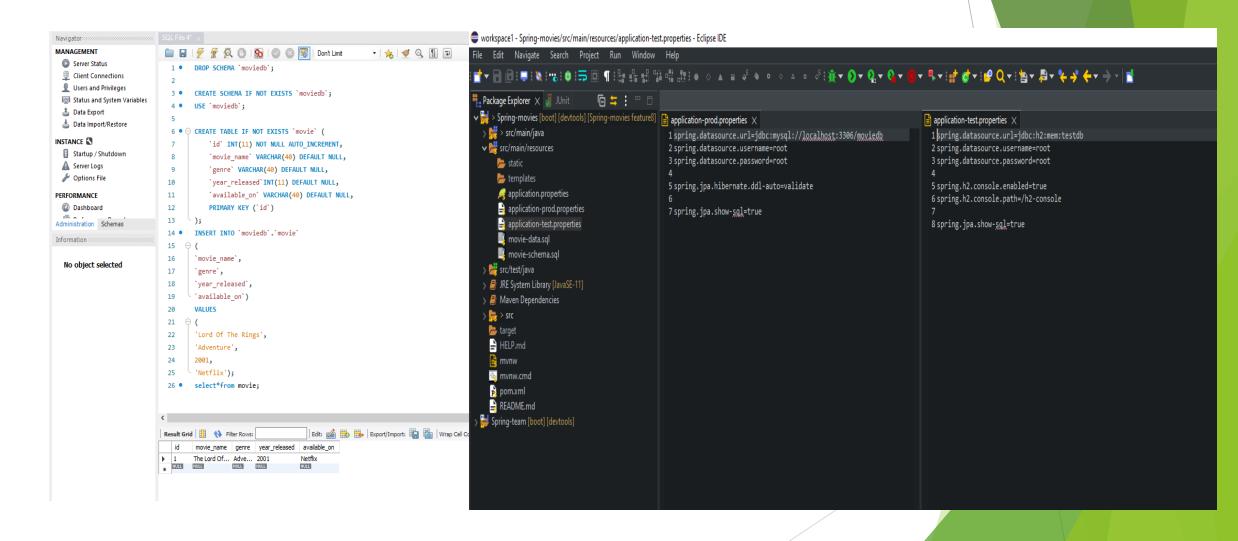


Testing

MVC controller tests

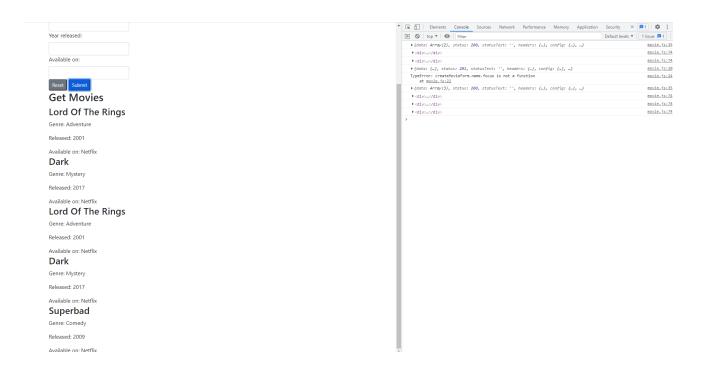


SQL Schema and connection properties



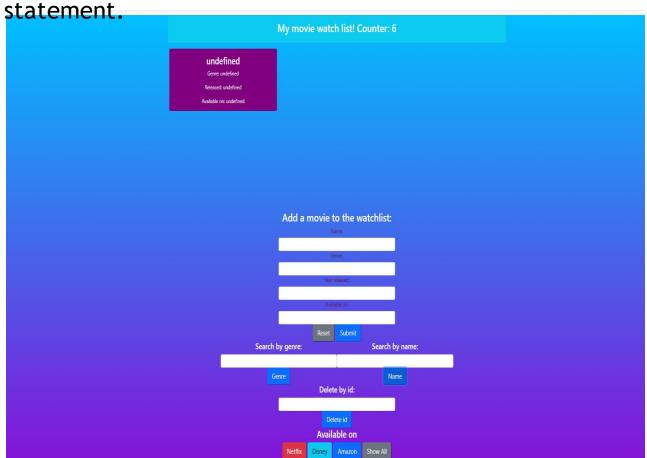
Some issues

Repeating values - fixed by adding blank innerHTML text.



Issues cont...

Undefined issue when name not in db - fixed by adding If



Repeating updates

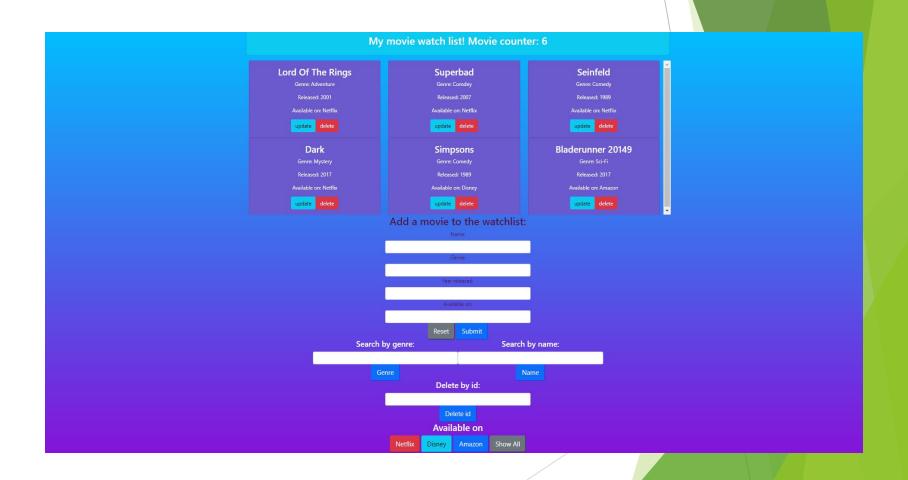


Hobby project demonstration

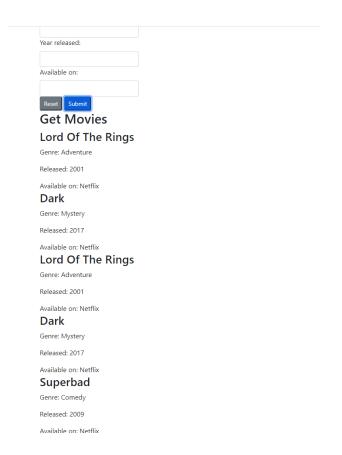
READ ME

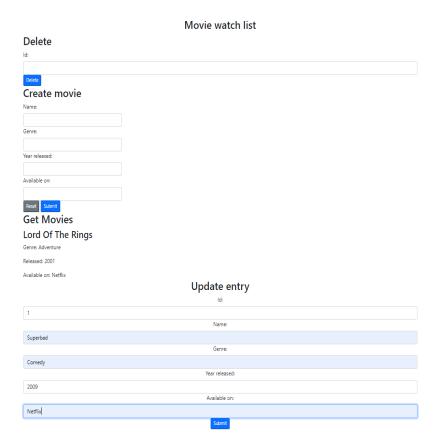
MVP

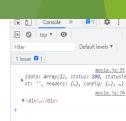
Demonstration



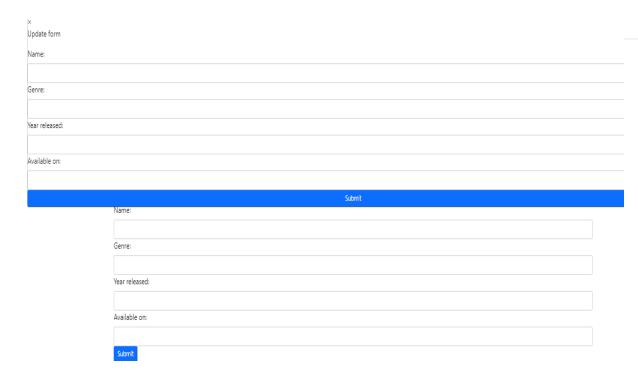
Webpage progression

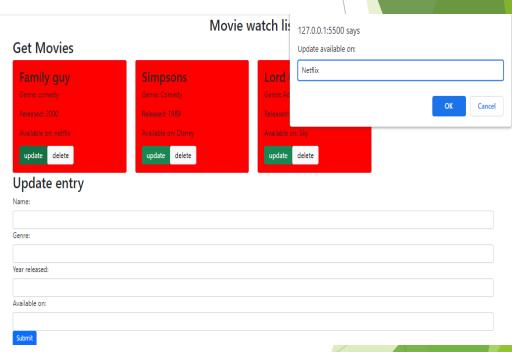




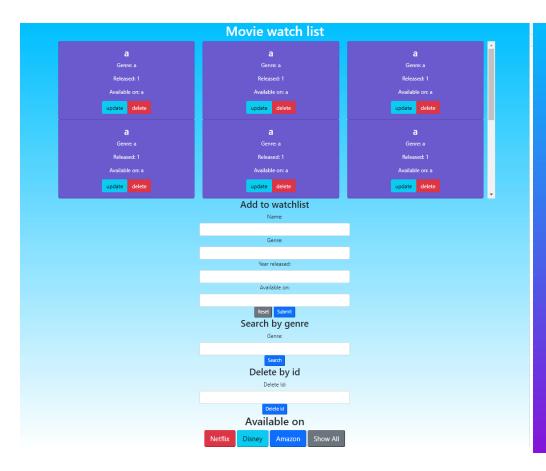


Webpage progression





Webpage progression





Sprint review

Completed?

Worked at a good pace.

Did not need much assistance.

Learnt a lot about the technologies used.

Functioning application that meets the MVP and more.

What got left behind?

QOL of life improvements.

Extra testing not in the MVP.

Sprint retrospective

- What went well?
- ► Time management, motivation, commitment, performed better than I thought.
- What could go better next time?
- Emphasis on planning much better understanding of how projects connect and how powerful planning could be.
- Had a hard time testing.

Conclusion and reflections

- Overall successful happy with result.
- Very interesting project showing how applications use multiple technologies to achieve a goal.
- Greater appreciation for Git usage see on webpages.
- Building on my skills and learning new technologies.
- Future steps.
- Project offered a strong opportunity for development and will continue to build my skills more along the apprenticeship.
- Learnt a lot of new technologies in a short period and happy with progress + expanded on previous technologies learnt.

Thank you

Any questions?