

HWA - Project

By Gabriel Jose

Initial Approach to the Project

- ▶ Fairly decent level of confidence
- ▶ More experience with Java from previous project
- ▶ Willing to apply new things learned in HTML, CSS and JS
- ▶ Getting better with using Jira and Git

TO DO 5 ISSUES	IN PROGRESS 5 ISSUES	DONE ✓
createBoat.js JAVASCRIPT HP-31 (15)	createBoatClub.js JAVASCRIPT HP-36 (15)	
readAllBoats.js JAVASCRIPT HP-32 (15)	readAllBoatClubs.js JAVASCRIPT HP-37 (15)	
readBoatById.js JAVASCRIPT HP-33 (15)	readBoatClubById.js JAVASCRIPT HP-38 (15)	
updateBoat.js JAVASCRIPT HP-34 (17)	deleteBoatClub.js JAVASCRIPT HP-40 (17)	
deleteBoat.js JAVASCRIPT HP-35 (17)	updateBoatClub.js JAVASCRIPT HP-39 (17)	

TO DO 2 ISSUES	IN PROGRESS 5 ISSUES	DONE 7 ISSUES ✓
Risk Assessment DOCUMENTATION HP-20 (15)	Create a boat BOAT ENTITY HP-6 (6)	Presentation slides DOCUMENTATION HP-19 (10) ✓
README file DOCUMENTATION HP-21 (15)	Read all boats BOAT ENTITY HP-7 (6)	ER and UML diagrams for Boat Club and Boat entities ER AND UML DIAGRAMS HP-18 (10) ✓
	Read a boat by ID BOAT ENTITY HP-8 (8)	Create a Boat Club BOAT CLUB ENTITY HP-1 (6) ✓
	Update details of a boat BOAT ENTITY HP-9 (8)	Read all boat clubs method BOAT CLUB ENTITY HP-2 (6) ✓
	Delete a boat BOAT ENTITY HP-10 (8)	Read a boat club by ID BOAT CLUB ENTITY HP-3 (8) ✓
		Update details of a boat club

Complete HP Sprint 1

This sprint contains 14 completed issues.

That's all of them - well done!

Complete sprint Cancel

Service SPRINGBOOT HP-44 (15)	Config SPRINGBOOT HP-45 (10)
Controller SPRINGBOOT HP-42 (15)	Repo SPRINGBOOT HP-43 (8)

TO DO 3 ISSUES	IN PROGRESS 4 ISSUES	DONE ✓
home page styling CSS HP-30 (6)	Index.html HTML HP-24 (7)	
Boat Club CRUD html pages HTML HP-26 (20)	Home - Boat Club.html HTML HP-25 (7)	
Boat CRUD html pages HTML HP-28 (20)	Home - Boats.html HTML HP-27 (7)	
	general styling for all pages CSS HP-29 (6)	

TO DO 1 ISSUE

CRUDpageTests
SELENIUM TESTING
HP-47 20

IN PROGRESS 2 ISSUES

indexPageTest
SELENIUM TESTING
HP-46 15

homePageTests
SELENIUM TESTING
HP-48 15

DONE ✓

+

IN PROGRESS 2 ISSUES

BoatClubControllerIntegrationTest
SPRINGBOOT TESTING
HP-49 20

BoatControllerIntegrationTest
SPRINGBOOT TESTING
HP-50 20

DONE 2 ISSUES ✓

BoatServiceUnitTest
SPRINGBOOT TESTING
HP-51 ✓ 18

BoatClubServiceUnitTest
SPRINGBOOT TESTING
HP-52 ✓ 18

+

Sprint Plan

- ▶ What must be included?
- ▶ Fully functional HTML pages (navigating from page to page)
- ▶ CRUD functionality in SpringBoot and web page
- ▶ Selenium testing for front - end
- ▶ A working web application page that can use CRUD
- ▶ CSS styling (background images)
- ▶ Sufficient test coverage from SpringBoot and Selenium

Consultant Journey

- ▶ SpringBoot and Selenium (for testing both ends)
- ▶ Fetch requests in JavaScript
- ▶ Building up from test classes to writing unit and integration tests

Version Control Approach

- ▶ Being more strict with following the feature branch model when implementing new features to the project (e.g. docs, SpringBoot, Selenium, etc)
- ▶ Was able to be more thorough with version control by pushing regularly to Git
- ▶ Included one last general push to GitHub at the end of the day
- ▶ Included a folder containing all screenshots of every push to GitHub in docs folder

```
gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project/HWAFrontEnd (html)
$ cd CSS

gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project/HWAFrontEnd/CSS (html)
$ git add .

gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project/HWAFrontEnd/CSS (html)
$ git commit -m "created general.css file"
[html ab5ee2d] created general.css file
1 file changed, 17 insertions(+)
create mode 100644 HWAFrontEnd/CSS/general.css

gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project/HWAFrontEnd/CSS (html)
$ git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 533 bytes | 533.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/gabeyose/HWA-Project.git
39064c0..ab5ee2d html -> html

gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project/HWAFrontEnd/CSS (html)
$ git status
On branch html
Your branch is up to date with 'origin/html'.

nothing to commit, working tree clean
```

```
gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project (javascript)
$ git status
On branch javascript
Your branch is up to date with 'origin/javascript'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   HWAFrontEnd/HTML/Read/readBoatClubs.html
        modified:   HWAFrontEnd/JS/ReadJS/readBoatClubs.js

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        docs/Screenshots/Screenshot 2021-11-19 130552 (completed deleteBoatClub.js and pushed to github).png

no changes added to commit (use "git add" and/or "git commit -a")

gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project (javascript)
$ git add .

gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project (javascript)
$ git commit -m "added function to clear table in readBoatClubs"
[javascript cc9e422] added function to clear table in readBoatClubs
3 files changed, 13 insertions(+), 1 deletion(-)
create mode 100644 docs/Screenshots/Screenshot 2021-11-19 130552 (completed deleteBoatClub.js and pushed to github).png

gjose@DESKTOP-6PMRFM5 MINGW64 ~/OneDrive/Desktop/QA/Individual Project/HWA-Project (javascript)
$ git push
Enumerating objects: 22, done.
Counting objects: 100% (22/22), done.
Delta compression using up to 8 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (12/12), 98.83 KiB | 8.24 MiB/s, done.
Total 12 (delta 6), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To https://github.com/gabeyose/HWA-Project.git
a0556ea..cc9e422 javascript -> javascript
```

Testing

- ▶ Front - end was tested by opening a live server on VS
- ▶ Changed to Selenium by using ChromeDriver and running the tests
- ▶ Selenium tests are complete and fully operational
- ▶ Back - end testing was done initially by running Spring from the terminal and using Postman
- ▶ Changed to unit and integration tests on SpringBoot
- ▶ Coverage currently at 42.1 % due to problems (should improve before submission)

```
Finished after 328.802 seconds
Runs: 42/42      Errors: 0      Failures: 0
[Progress bar: 42/42 runs completed]
> DeleteBoatClubTest [Runner: JUnit 5] (29.277 s)
> DeleteBoatTest [Runner: JUnit 5] (29.911 s)
> UpdateBoatClubTest [Runner: JUnit 5] (43.537 s)
> UpdateBoatTest [Runner: JUnit 5] (29.720 s)
> CreateBoatTest [Runner: JUnit 5] (21.913 s)
> CreateBoatClubTest [Runner: JUnit 5] (34.953 s)
> IndexPageTest [Runner: JUnit 5] (19.651 s)
> BoatHomeTest [Runner: JUnit 5] (38.733 s)
> BoatClubHomeTest [Runner: JUnit 5] (29.938 s)
> ReadBoatTest [Runner: JUnit 5] (22.658 s)
> ReadBoatClubTest [Runner: JUnit 5] (28.338 s)
```

Demonstration

- ▶ User stories I will cover on web page:
- ▶ CREATE and READ boat clubs
- ▶ CREATE boats
- ▶ UPDATE a boat club
- ▶ DELETE a boat

Description

As a user, I want to be able to create a boat club. This is so that when there is a new boat club, it can be added to the system.

Description

As a user, I want to be able to create a boat in the system. This is so that when the boat club orders a new boat, it can be added to the system.

Description

As a user, I want to be able to read all the boat clubs currently in the system. This is so that I can look at all the boat clubs.

Description

As a user, I want to be able to remove a boat from the system. This is so that in case the boat club chooses to sell one of their boats, it can be removed from the system.

Description

As a user, I want to be able to update the details of any of the boat clubs. This is in case the head coach leaves the boat club or changes its name, the new detail can be updated.

Sprint Review

Managed to complete:

- ▶ Fully functional web page (able to use CRUD)
- ▶ Controllers, services, domains for Boat and BoatClub classes on SpringBoot
- ▶ Documentation (Risk assessment, ER and UML diagram)
- ▶ Mostly completed Jira board
- ▶ Selenium tests
- ▶ Fully working HTML and JS, sufficient styling using CSS

Remaining tasks:

- ▶ Fat .jar files for Selenium and SpringBoot
- ▶ Merging final version from dev to main branch on GitHub
- ▶ Integration tests for BoatController due to problems

Sprint Retrospective

What went well?

- ▶ Took more careful planning for overall project
- ▶ More disciplined with version control than with IMS
- ▶ Slightly more consistent with code style
- ▶ Basics of Java, HTML, CSS and JavaScript were properly demonstrated
- ▶ Stuck to planned timeline for the project

What to do better next time?

- ▶ Could still use smart commits for Jira (heavily focused on normal commits via Git bash)
- ▶ Avoid wasting too much time trying to debug myself. Ask trainer for help or cohort members in breakout rooms on Teams

Overall Conclusion

- ▶ Big improvement from IMS (as far as using Git)
- ▶ Still could do a bit better
- ▶ Keep working on getting into a better habit of updating Jira and project work simultaneously
- ▶ Try to ask for help a bit more often instead of wasting a lot of time trying to do it myself



Thank you for listening!

Any questions?