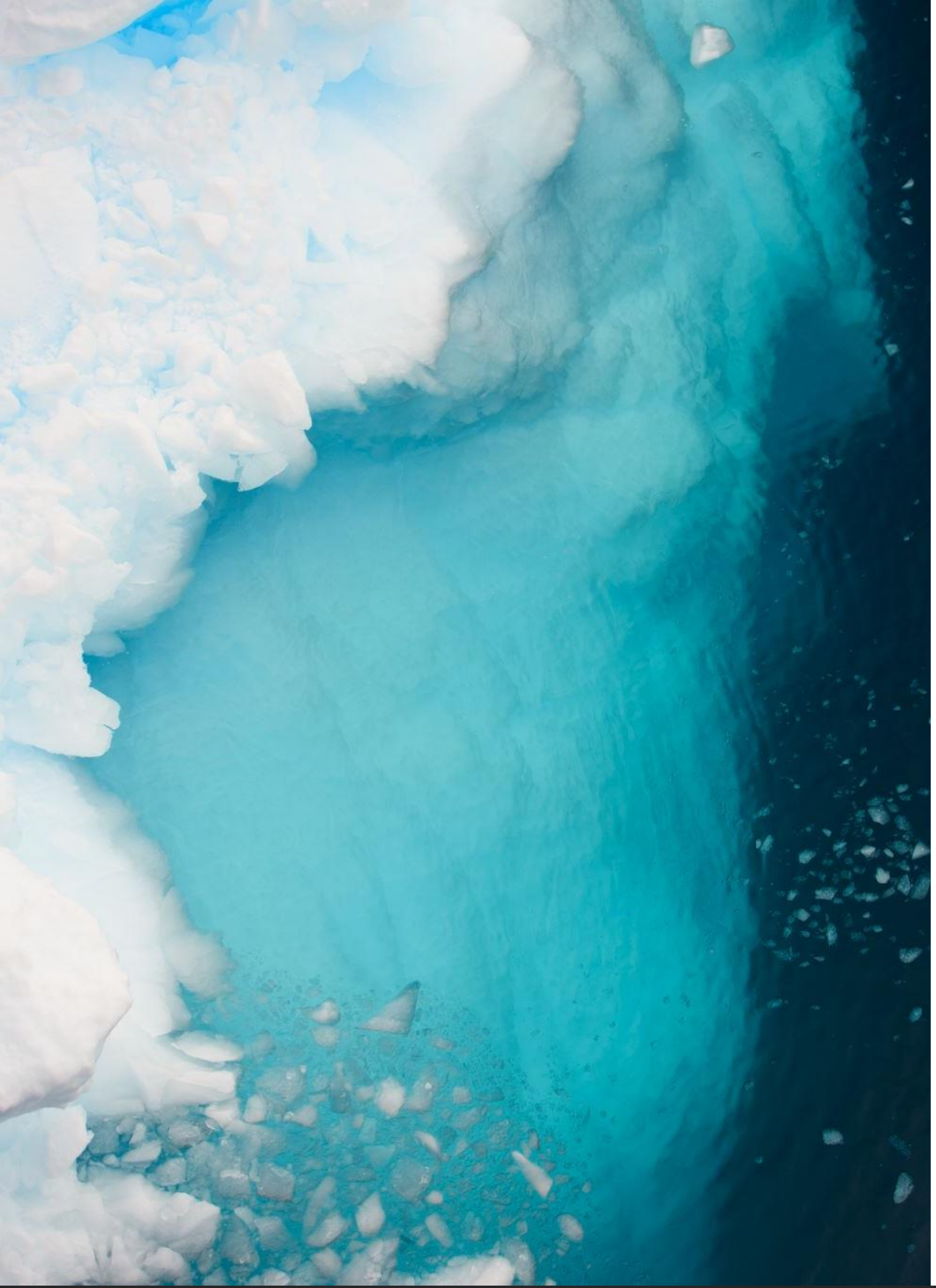


Hobby Web Application (HWA)

CARL ANGELES

PROJECT PLANNING

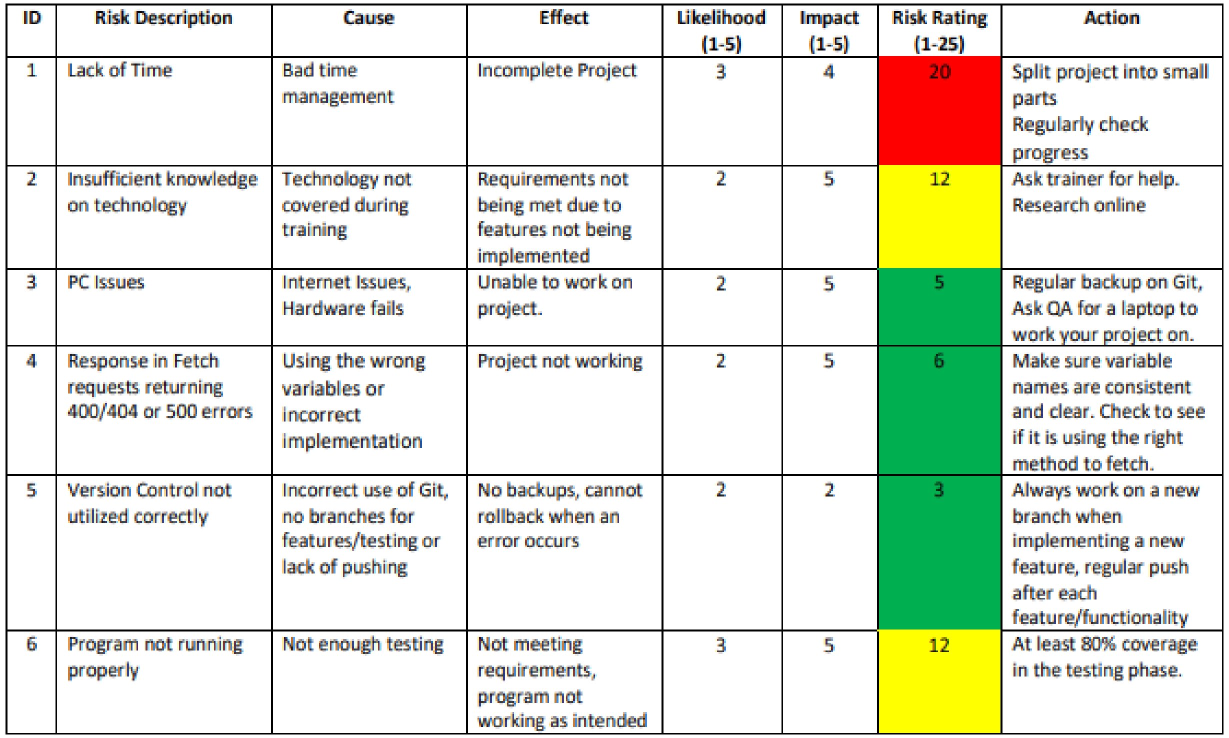
Risk Assessment

MoSCoW Analysis

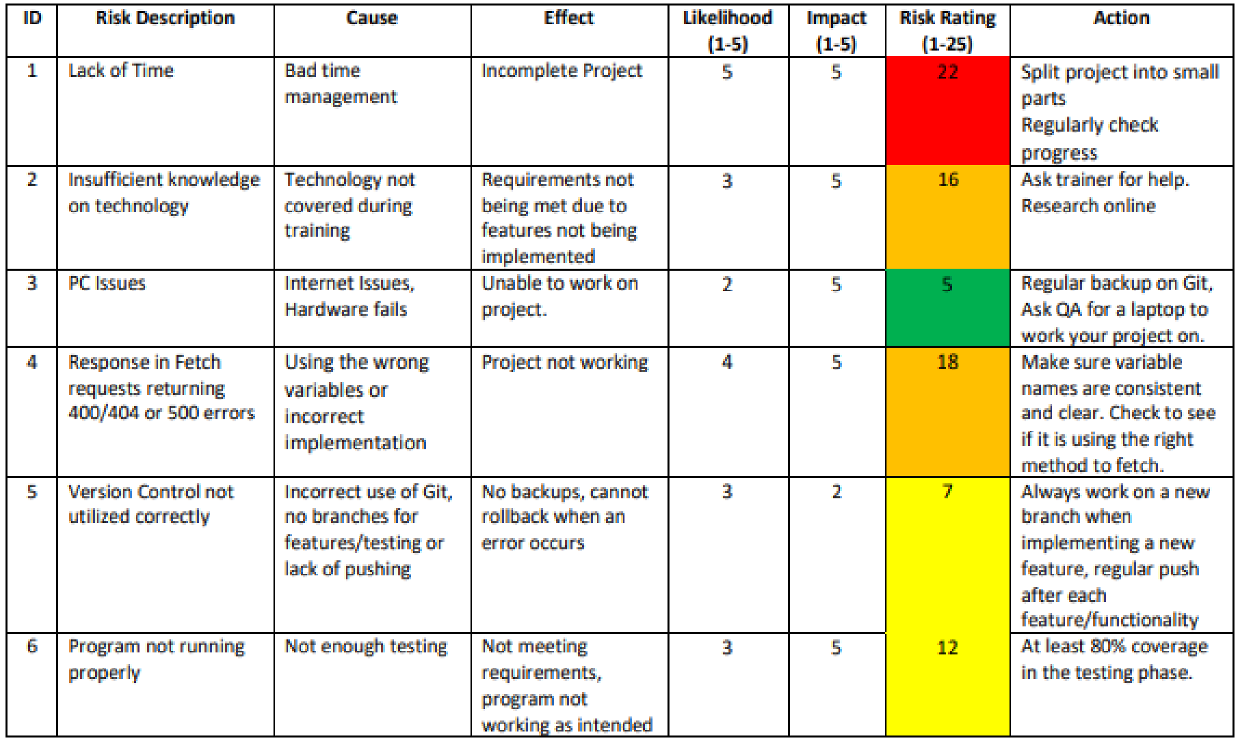
Jira (Kanban)

Entity Relationship Diagram

Before Project



ID	Risk Description	Cause	Effect	Likelihood (1-5)	Impact (1-5)	Risk Rating (1-25)	Action
1	Lack of Time	Bad time management	Incomplete Project	3	4	20	Split project into small parts Regularly check progress
2	Insufficient knowledge on technology	Technology not covered during training	Requirements not being met due to features not being implemented	2	5	12	Ask trainer for help. Research online
3	PC Issues	Internet Issues, Hardware fails	Unable to work on project.	2	5	5	Regular backup on Git, Ask QA for a laptop to work your project on.
4	Response in Fetch requests returning 400/404 or 500 errors	Using the wrong variables or incorrect implementation	Project not working	2	5	6	Make sure variable names are consistent and clear. Check to see if it is using the right method to fetch.
5	Version Control not utilized correctly	Incorrect use of Git, no branches for features/testing or lack of pushing	No backups, cannot rollback when an error occurs	2	2	3	Always work on a new branch when implementing a new feature, regular push after each feature/functionality
6	Program not running properly	Not enough testing	Not meeting requirements, program not working as intended	3	5	12	At least 80% coverage in the testing phase.



ID	Risk Description	Cause	Effect	Likelihood (1-5)	Impact (1-5)	Risk Rating (1-25)	Action
1	Lack of Time	Bad time management	Incomplete Project	5	5	22	Split project into small parts Regularly check progress
2	Insufficient knowledge on technology	Technology not covered during training	Requirements not being met due to features not being implemented	3	5	16	Ask trainer for help. Research online
3	PC Issues	Internet Issues, Hardware fails	Unable to work on project.	2	5	5	Regular backup on Git, Ask QA for a laptop to work your project on.
4	Response in Fetch requests returning 400/404 or 500 errors	Using the wrong variables or incorrect implementation	Project not working	4	5	18	Make sure variable names are consistent and clear. Check to see if it is using the right method to fetch.
5	Version Control not utilized correctly	Incorrect use of Git, no branches for features/testing or lack of pushing	No backups, cannot rollback when an error occurs	3	2	7	Always work on a new branch when implementing a new feature, regular push after each feature/functionality
6	Program not running properly	Not enough testing	Not meeting requirements, program not working as intended	3	5	12	At least 80% coverage in the testing phase.

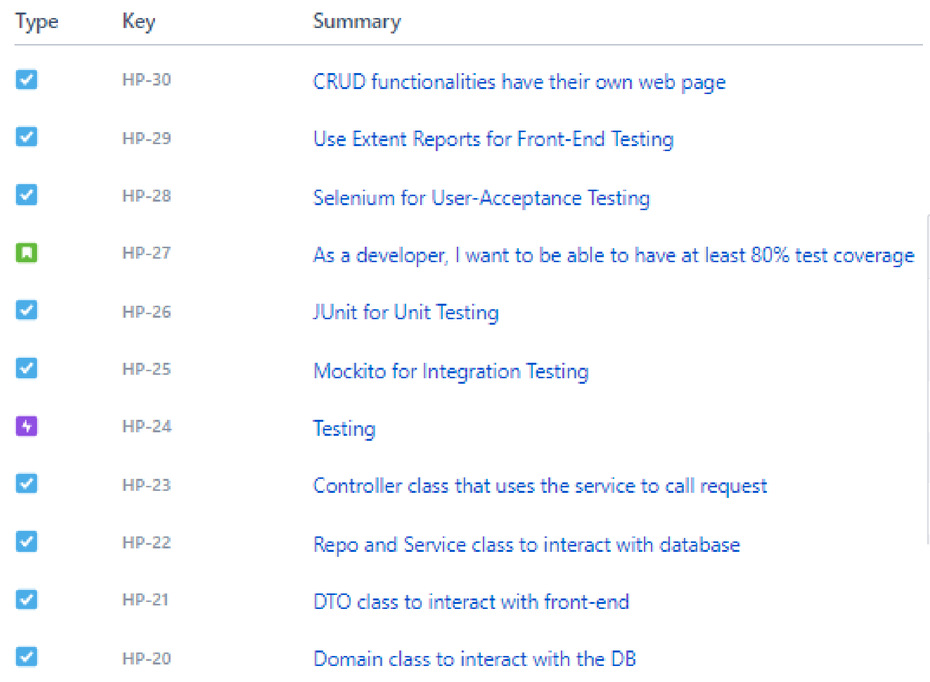
After Project

RISK ASSESSMENT

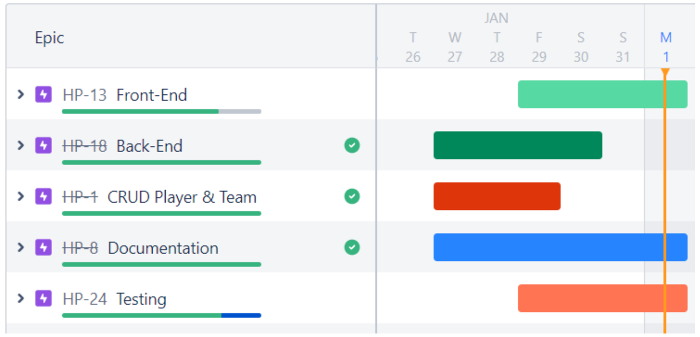
MUST HAVE	SHOULD HAVE	COULD HAVE	WOULD HAVE
Database for Player and Team	Ability to display the players in a team	Ability to set a player with no team when its team is deleted.	Permission Control
Back-End with full CRUD functionality	Good User Interface	Log in System	
Front-End with full CRUD functionality	More ways to search player/team (By IGN/Name)		

MOSCOW ANALYSIS

DESIGN (KANBAN)



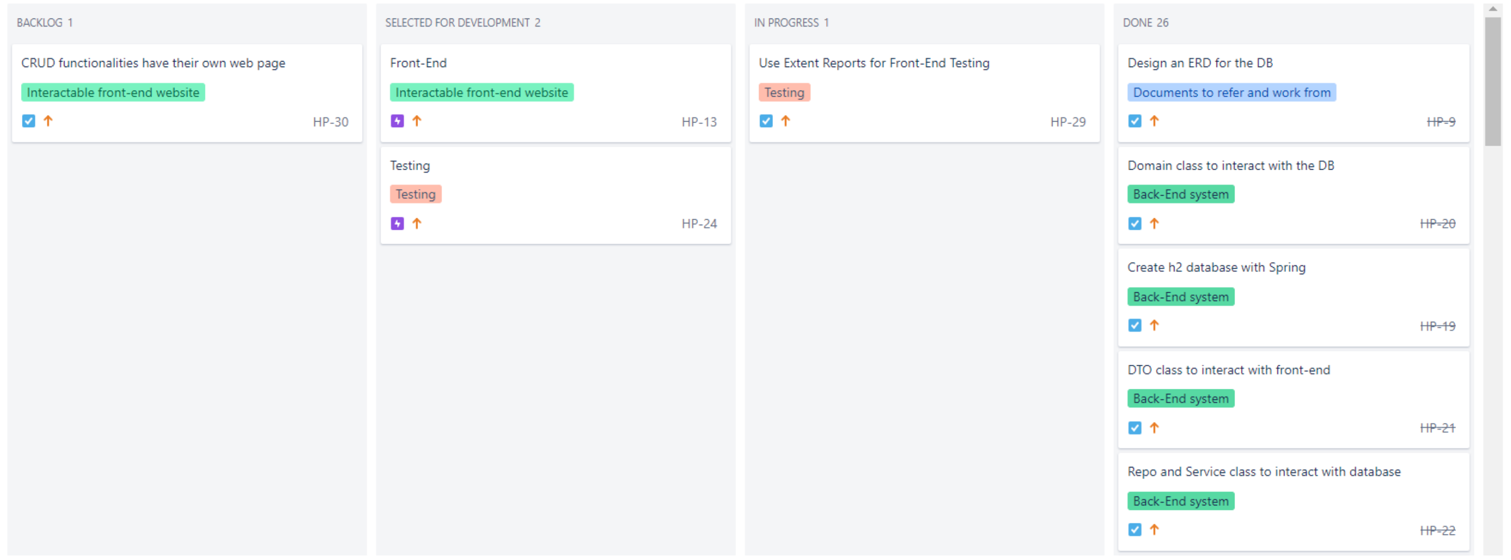
Type	Key	Summary
✓	HP-30	CRUD functionalities have their own web page
✓	HP-29	Use Extent Reports for Front-End Testing
✓	HP-28	Selenium for User-Acceptance Testing
🟩	HP-27	As a developer, I want to be able to have at least 80% test coverage
✓	HP-26	JUnit for Unit Testing
✓	HP-25	Mockito for Integration Testing
⚡	HP-24	Testing
✓	HP-23	Controller class that uses the service to call request
✓	HP-22	Repo and Service class to interact with database
✓	HP-21	DTO class to interact with front-end
✓	HP-20	Domain class to interact with the DB



Epic

JAN
T 26, W 27, T 28, F 29, S 30, S 31, M 1

- HP-13 Front-End
- ~~HP-18~~ Back-End ✓
- ~~HP-1~~ CRUD Player & Team ✓
- ~~HP-8~~ Documentation ✓
- HP-24 Testing



BACKLOG 1

- CRUD functionalities have their own web page — Interactable front-end website — HP-30

SELECTED FOR DEVELOPMENT 2

- Front-End — Interactable front-end website — HP-13
- Testing — Testing — HP-24

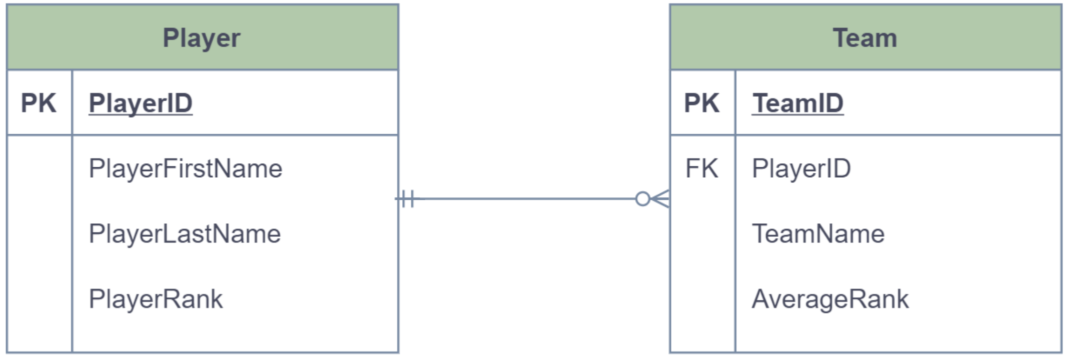
IN PROGRESS 1

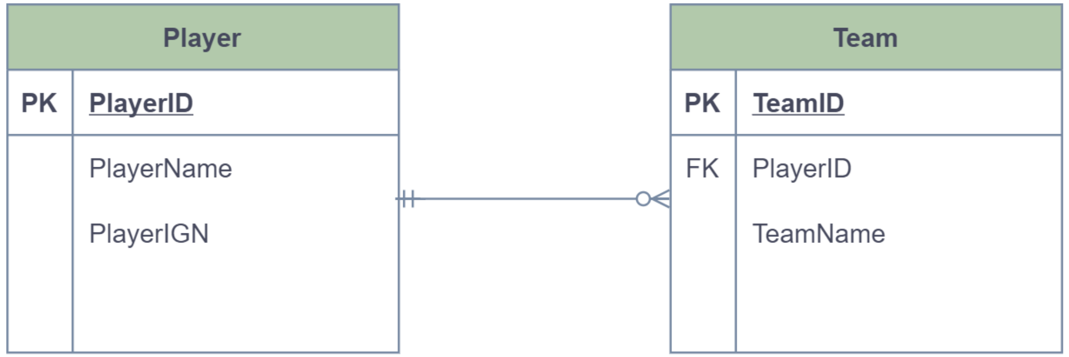
- Use Extent Reports for Front-End Testing — Testing — HP-29

DONE 26

- Design an ERD for the DB — Documents to refer and work from — ~~HP-9~~
- Domain class to interact with the DB — Back-End system — ~~HP-20~~
- Create h2 database with Spring — Back-End system — ~~HP-19~~
- DTO class to interact with front-end — Back-End system — ~~HP-21~~
- Repo and Service class to interact with database — Back-End system — ~~HP-22~~

Planning

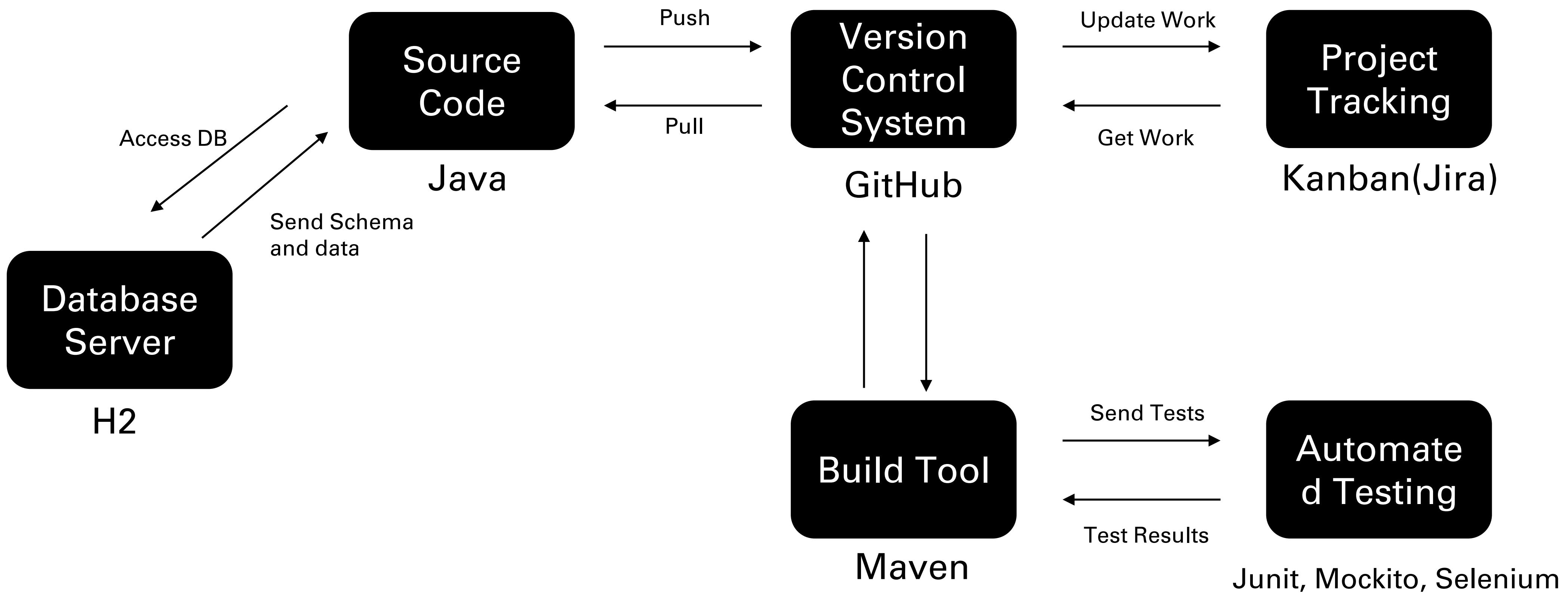




Current

ENTITY RELATIONSHIP DIAGRAM (ERD)

CI PIPELINE


Source Code
Java
Push
Pull
Version Control System
GitHub
Update Work
Get Work
Project Tracking
Kanban(Jira)
Access DB
Send Schema and data
Database Server
H2
Build Tool
Maven
Send Tests
Test Results
Automated Testing
Junit, Mockito, Selenium

CONSULTANT JOURNEY

Agile – Scrum, Kanban(Jira)

Source Control – Git, Github

Database – MySQL

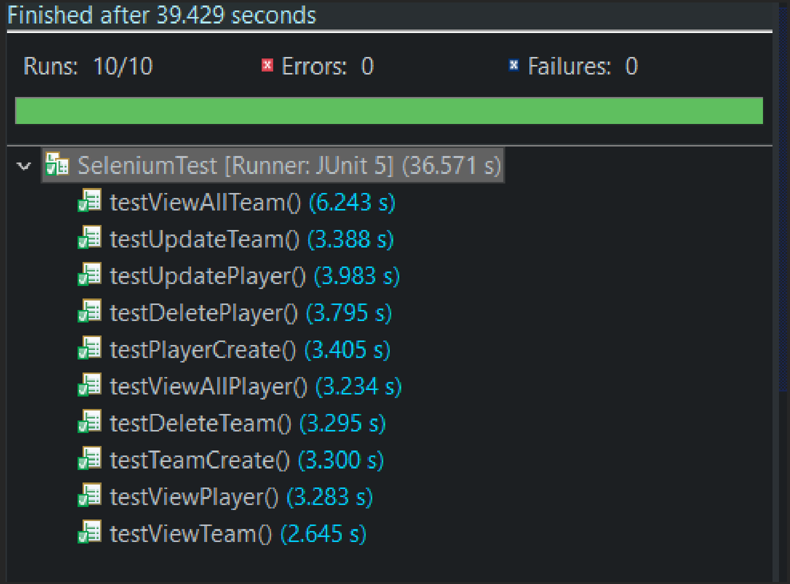
Programming Language – Java, HTML, JavaScript

Build Tool – Maven

Testing – Junit, Mockito, Selenium

Framework – Bootstrap, Spring Boot

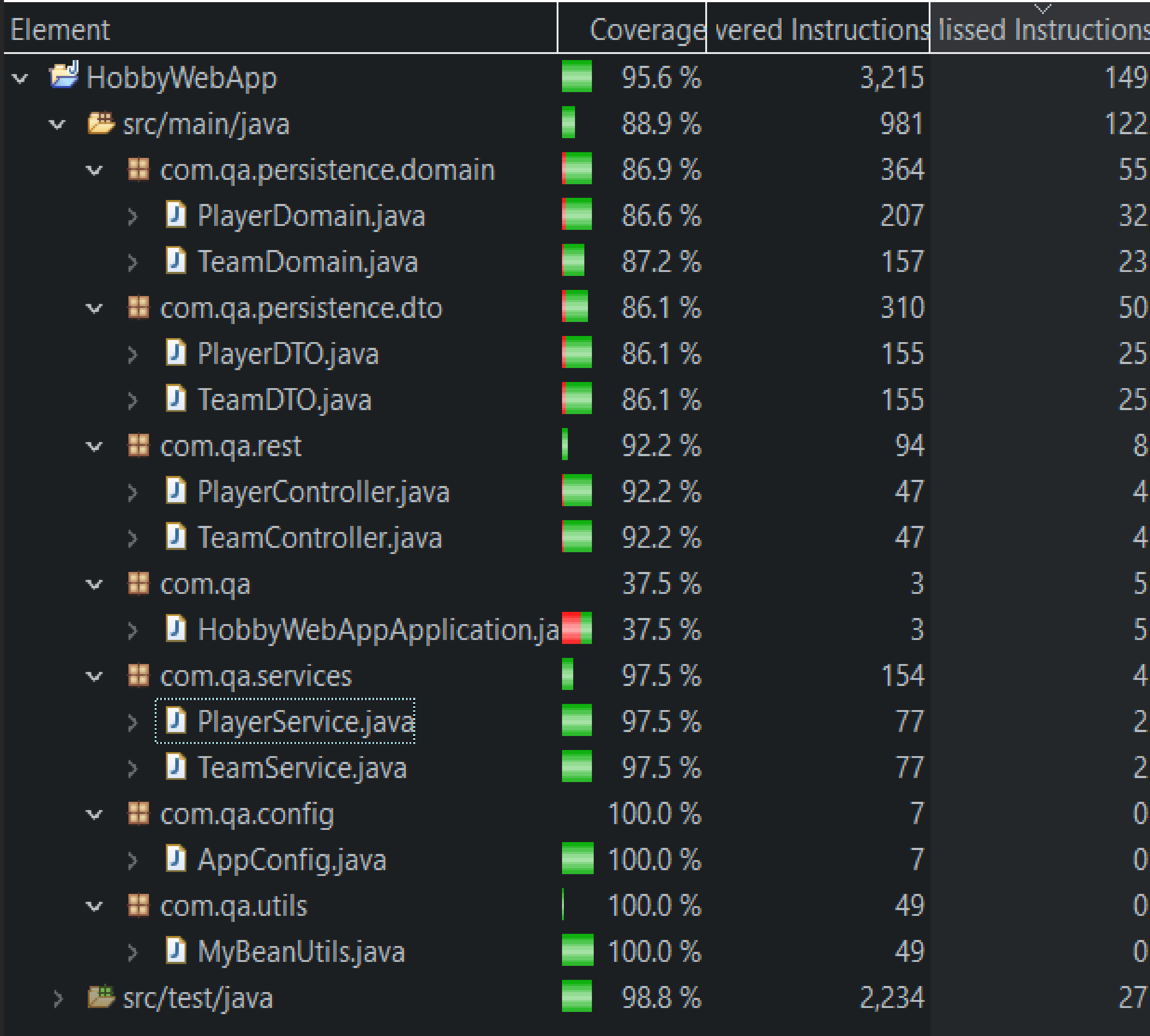
TESTING



```
Finished after 39.429 seconds

Runs:  10/10        Errors:  0        Failures:  0

SeleniumTest [Runner: JUnit 5] (36.571 s)
    testViewAllTeam() (6.243 s)
    testUpdateTeam() (3.388 s)
    testUpdatePlayer() (3.983 s)
    testDeletePlayer() (3.795 s)
    testPlayerCreate() (3.405 s)
    testViewAllPlayer() (3.234 s)
    testDeleteTeam() (3.295 s)
    testTeamCreate() (3.300 s)
    testViewPlayer() (3.283 s)
    testViewTeam() (2.645 s)
```



Element	Coverage	vered Instructions	lissed Instructions
HobbyWebApp	95.6 %	3,215	149
src/main/java	88.9 %	981	122
com.qa.persistence.domain	86.9 %	364	55
PlayerDomain.java	86.6 %	207	32
TeamDomain.java	87.2 %	157	23
com.qa.persistence.dto	86.1 %	310	50
PlayerDTO.java	86.1 %	155	25
TeamDTO.java	86.1 %	155	25
com.qa.rest	92.2 %	94	8
PlayerController.java	92.2 %	47	4
TeamController.java	92.2 %	47	4
com.qa	37.5 %	3	5
HobbyWebAppApplication.ja	37.5 %	3	5
com.qa.services	97.5 %	154	4
PlayerService.java	97.5 %	77	2
TeamService.java	97.5 %	77	2
com.qa.config	100.0 %	7	0
AppConfig.java	100.0 %	7	0
com.qa.utils	100.0 %	49	0
MyBeanUtils.java	100.0 %	49	0
src/test/java	98.8 %	2,234	27

DEMONSTRATION

SPRINT REVIEW

What did I complete?

CRUD Functionalities for both entities

Minimum Viable Product

What got left behind?

Features from lower priority and some in SHOULD column in MoSCoW table

Extent Reports for Front-End Testing

SPRINT RETROSPECTIVE

What went well

Dividing up tasks

Improved documentation compared to previous project

What could be improved

Testing could be done after each feature

Use of Jira

CONCLUSION

More organized

Front-end testing could have been handled better

Managed to get a working viable product