

HOBBY WEB APPLICATION

By Charles Cairney



INTRODUCTION

Project lead: Charles Cairney - Software Specialist - QA Ltd

MVP:

- Full-Stack Web Application
- Full CRUD functionality
 Back/FrontEnd
- Local Database in MySQL
- Intuitive FrontEnd
- Testing Coverage of 80%
- Application must Compile

Start:

- Brainstormed hobbies that apply
- Determined which would display the most skills learned
- Create Initial Risk Assessment as this would apply to all
- Created Repo on Github
- Setup up JIRA
- Start planning my sprint









SPRINT PLAN - JIRA

Sprint 1	Sprint 2	Sprint 3	Sprint 4	Presentation Day
PlanningWorkflow setupResearch	API CreationFrontEnd implementation	• Full Testing	PresentationDocumentationCompile & Push	
Date: 09:00 15/08/22 To 18:00 15/08/22	Date: 09:00 16/08/22 To 18:00 16/08/22	Date: 09:00 17/08/22 To 18:00 17/08/22	Date: 09:00 18/08/22 To 18:00 18/08/22	



INITIAL RISK ASSESSMENT

Description	Evaluation	Likelihood	Impact level	Responsibility	Response	Control Measure	ID
Github crashes	I lose all my version history and work	Low	High	GitHub	Restart Project	Keep a secondary backup of most recent working project build	1
My Glasses Break	Harder to focus on code	Low	Low	Me	Get a new pair	Maintain safe usage and storage	2
API Breaks	Front and Backend failures	Low	High	Me	Return to working version	Maintain MVP at all times when tinkering	3
Real life problem requires attention	Stop coding to sort issue	High	Medium	Me	Sort issue and return to coding when able	Sort life issue after work and make sure no commitments are set during work times	4
Project MVP requirements change	Previous work is useless	Low	Medium	Customer	Salvage existing code that can be used and replan	Keep updated with the Customer product scope page	5
Keyboard and Mouse faults	Can't use desktop to code	Medium	Medium	Manufacturer	Go buy new equipment or borrow laptop	Maintain safe peripheral usage	6
Internet goes down	Can't connect to JIRA or gitHub	Medium	Low	Virgin Media	Use Hotspot from Phone	Ethernet connect into router to avoid wifi drops	7
Testing Fails and results in under standard coverage	API is not valid	Low	High	Me	Reverse engineer API from testing failures	Continuous testing to excessive issues at the end	8
Low Productivity	Incomplete or below standard project	Low	High	Me	centre and re-focus	Every morning have a reasonable idea of what can be achieved	9
Main PC breaks	Can't code on my prefered device	Low	Low	Me	Continue on second desktop or laptop	Maintain safe usage and monitor temperatures at application launches	10

	IMPACT LEVEL		
LIKELIHOOD	LOW	MEDIUM	HIGH
LOW	2,10	5	1,3,8,9
MEDIUM	7	6	
HIGH		4	



Link to Risk assessment pdf found in the documentation section of the Repo.

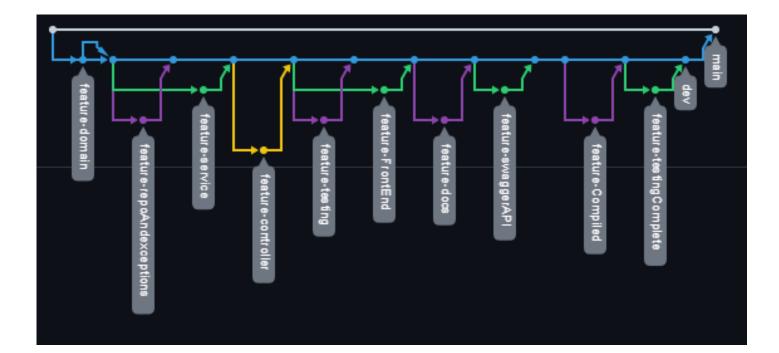
TECHNOLOGY LEARNED

Logo	Technology	Description
JS	JavaScript	Allows for the creation of interactive web pages.
=	CSS	Cascading Style Sheets allows for the styling of elements on HTML docs.
5	HTML	Is the building block of webpages that describe their structure & meaning.
	Spring Boot	Application used to fast track creation of services with their frameworks.
×	VS Code	Code editor.
({··})	Swagger	Creates documentation for API's.



VERSION CONTROL

- Version control System: Git & managed through Github
- **FBM:** Feature branch model was used to ensure MVP was always functional to users when development was occurring.
- **Protection:** Branch protection was in place for Main and Dev branch requiring review before merging.
- Naming Syntax: Branches were named with the concept they alter example "feature-Testing".



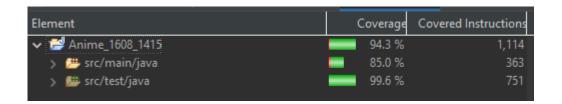


TESTING

INTEGRATION

UNIT

COVERAGE



Analysis:

- A key issue I ran into that was resolved through testing was services returned a list of animes for results that only required one due to their uniqueness.
- Therefore, when this test returned Red, I refactor and optimized until they were Green and coverage was acceptable.





DEMONSTRATION



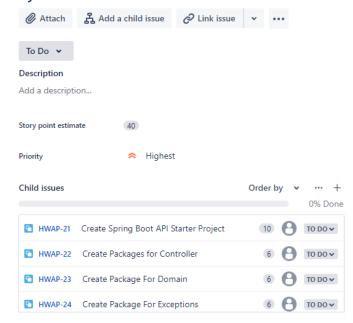
https://github.com/CSCairney/HobbyWebApplic ation-Project

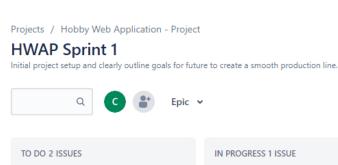


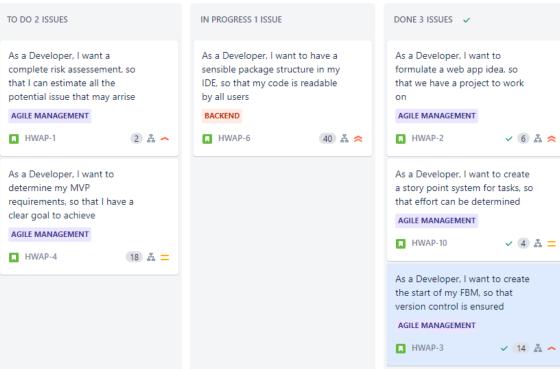
Initial sprint with, idea generation, risk assessment, user stories created for all users and creation of repo with full FBM & branch protection.

Example of tasks:

As a Developer, I want to have a sensible package structure in my IDE, so that my code is readable by all users





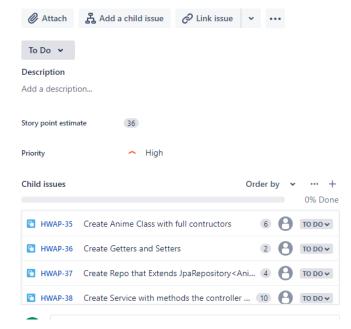


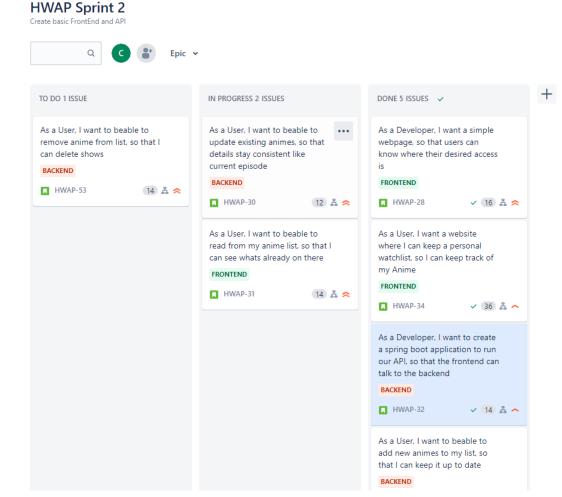


Creation of the API consisting of the rest controller, service, repo and domain. Also, creation of the basic FrontEnd.

Example of tasks:

As a User, I want a website where I can keep a personal watchlist, so I can keep track of my Anime





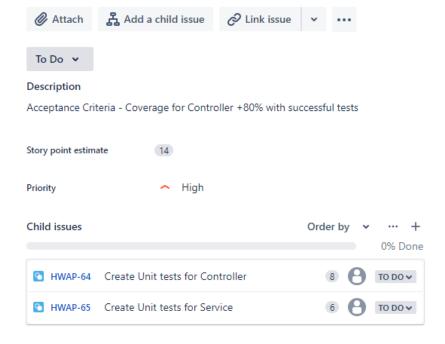


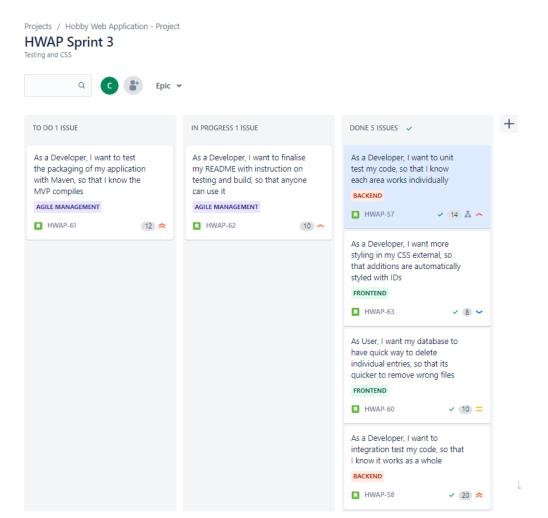
Integration and unit testing of the code. Achieve +80% coverage.

Alter CSS to use more external that inline styling.

Example of tasks:

As a Developer, I want to unit test my code, so that I know each area works individually



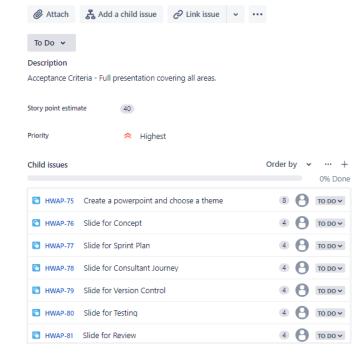


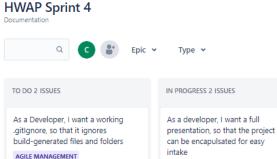


Full documentation, bug fixing, testing, ReadMe and Compiling final build.

Example of tasks:

As a developer, I want a full presentation, so that the project can be encapulsated for easy intake





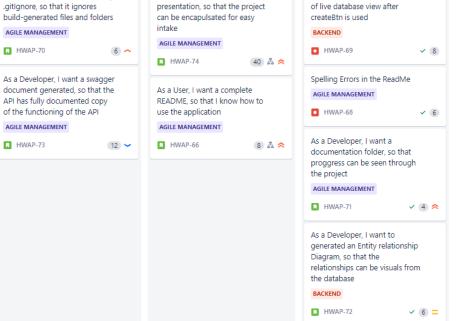
HWAP-70

API has fully documented copy

of the functioning of the API

AGILE MANAGEMENT

HWAP-73



DONE 4 ISSUES 🗸

Create does not refresh imitation



SPRINT REVIEW

- Had appropriate epics
- Instead of one day of testing, testing should've been implemented earlier to identify bugs.
- Bugs were highlighted in sprints which was effective.
- All ideas were achieved to create MVP.
- User Stories could've been more specific as some were too broad and spanned many topics.

FUTURE PLANS

- Automated translation feature from English title to Japanese.
- Link your CrunchyRoll account to automatically update your database with your current episode for shows.
- Hosted on the cloud with a share function for friends to compare.
- Once hosted online A public section could be generated for community discussion.
- Personalized stats page using custom queries for top 5 shows by input rating.





THANKS FOR LISTENING

Charles Cairney - Links



in https://www.linkedin.com/in/charlescairney/