



To do List Project

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Introduction

I started by condensing the brief into digestible points/tasks that I could complete in bursts using sprints.

This was done using Jira, and the tasks were managed into separate epics to further clarify what tasks were related to each other.

This helped to efficiently manage the backlog.

Concept

Status Report * Issue added to sp

Completed Issues View

Key	Summary	Issue Type	Priority	Status
P2-2 *	Sensible package structure (back-end) and folder structure (front-end)	Story	Medium	DONE
P2-3 *	Adherence to best practice and use of static analysis	Story	Medium	DONE
P2-5 *	User-acceptance testing for the project front-end	Story	Medium	DONE
P2-6 *	Test coverage of the src/main/java folder, aiming for 80%	Story	Medium	DONE
P2-8 *	The master branch must compile	Story	Medium	DONE
P2-9 *	A build of the application is present in the root folder of your git repo	Story	Medium	DONE
P2-10 *	A .war which can be deployed from the command-line	Story	Medium	DONE
P2-12 *	A completed project management board, including user stories, acceptance criteria, estimations via story points, and prioritisation via MoSCoW methodology	Story	Medium	DONE
P2-13 *	A working .gitignore for ignoring build-generated files and folders	Story	Medium	DONE
P2-14 *	A completed README.md, explaining how to use and test your application	Story	Medium	DONE
P2-15 *	A completed risk assessment, utilising a matrix, in .pdf format	Story	Medium	DONE
P2-16 *	At least one ERD and one UML diagram, in .png format	Story	Medium	DONE
P2-17 *	A copy of your presentation, in .pdf format (slides only – no notes)	Story	Medium	DONE

Issues Not Completed View

Key	Summary	Issue Type	Priority	Status
P2-4 *	Unit and integration testing for the project back-end	Story	Medium	IN PROGRESS

- I started by focusing on developing a working backend as this would help speed things up with the frontend creation.
- I also used Jira to create a specific guideline of what I could accomplish each day.

Sprint Plan

- Using sprints I added small manageable tasks to the sprints each day to make sure that I had things that could be accomplished regularly.

Consultant Journey

- **Version Control System:** Git
- **Source Code Management:** GitHub
- **Kanban Board:** Jira
- **Database Management System:** MySQL Server 5.7 (local or GCP instance)
- **Back-End Programming Language:** Java
- **API Development Platform:** Spring
- **Front-End Web Technologies:** HTML, CSS, JavaScript
- **Build Tool:** Maven
- **Static Analysis:** SonarQube
- **Unit & Integration Testing:** JUnit, Mockito
- **User-Acceptance Testing:** Selenium




CI

I set a repository on GitHub and cloned it to my machine, from then on I began working on the project from my personal machine

I created a dev branch to go along with main branch for this project, and the once a successful part of the code was working on the dev branch, I pushed it to the main branch this was done to ensure I always had a working version of my code.

Testing

JUnit

Problems Javadoc Declaration Console Coverage				
java (17 Dec 2020 20:34:28)				
Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
▼ demo	 90.3 %	1,374	147	1,521
> src/test/java	 95.6 %	1,071	49	1,120
> src/main/java	 75.6 %	303	98	401

SonarQube

CarProject ☆ master

Last analysis had 1 warning December 17, 2020, 3:12 PM Version 0.0.1-SNAPSHOT

Overview Issues Security Hotspots Measures Code Activity

Project Settings Project Information

QUALITY GATE STATUS

Passed

All conditions passed.

MEASURES

New Code	Overall Code
0 Bugs	Reliability A
2 Vulnerabilities	Security D
2 Security Hotspots	0.0% Reviewed Security Review E
5h 58min Debt	17 Code Smells Maintainability A
0.0% Coverage on 78 Lines to cover Unit Tests -	0.0% Duplications on 427 Lines Duplicated Blocks 0

ACTIVITY

Issues	December 17, 2020, 3:12 PM 0.0.1-SNAPSHOT
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Demonstration

Sprint Review

- The main shortcoming of the project was the missing update functionality in the front-end. As well as the lack of testing up to industry standards




Sprint Retrospective

- Overall I believe my approach with the sprints was successful, however given more time I would have described the tasks in greater detail.

Conclusion

- I believe that testing is something that I would need to improve on for next time as I only managed to achieve 75% testing for the src/main/folder. As well as managing my time efficiently under a time crunch.
- Due to some issues with my motherboard and CPU in the week prior, I lost quite some time for working on the project.
- The selenium testing was also left incomplete for this project.



Thank you for listening! Questions?