

# My Car Practical Project

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# Intro

- I approached this project by reading through the specification thoroughly. I then made a list of the skills required for this project and refamiliarised myself with these concepts.
- The goal of this project was to create an OOP-based application with utilisation of supporting tools, methodologies and technologies that encapsulate all core modules covered during training.
- I created a JIRA board with epics and user-stories so that I can plan my project efficiently.
- I created a Risk assessment and an Entity Relationship diagram to model the database
- I produced code and implemented testing features
- I regularly uploaded to GitHub and utilised the feature-branch model.

# Developer Journey

During the past 10 weeks, I have to learnt to use the following technologies, all of which I have used in this project:

- Version Control system- Git
- Source Code Management- GitHub
- Kanban Board- Jira
- Database- MySQL Server 5.7+
- Build Tool- Maven
- Unit testing- JUnit, Sonarqube, Selenium
- Language- Java (Spring Boot Framework)
- Front end- Html, CSS, Javascript

# Risk Assessment

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	A	B	C	D	E	F	G	H
1	Risk Matrices							
2		Negligible	Minor	Major	Hazardous	Catastrophic	< Impact	
3	Very Unlikely	Low	Low	Low medium	Medium	Medium		
4	Unlikely	Low	Low Medium	Low medium	Medium	Medium High		
5	Moderate	Low	Low Medium	Medium	Medium High	Medium High		
6	Likely	Low	Low medium	Medium	Medium high	High		
7	Very Likely	Low medium	Medium	Medium high	High	High		
8	^ Likelihood							
9								
10								
11								
12	Risk	Statement	Response	Objective	Likelihood	Impact	Risk Level	Recognition Date
13	Coming across new, Unfamiliar technologies	Coming across technologies or techniques that I don't understand could cause delays in my project.	Keep up to date with new coding techniques that could benefit me on my Project.	Try to keep up to date and informed on the techniques and technologies that I will be using throughout my project and if uncertain, research solutions to my problems and learn Effective solutions.	Moderate	Minor	3	13/05/2022
14	Not completing all requirements as expected	I could misinterpret a requirement which would cause my project to not work as expected.	Ensure to be thorough when reading through the requirements for my project.	Be thorough and specific in my tasks And ensure that I have the correct understanding of each requirement with my trainer before starting my code	Unlikely	Minor	2	13/05/2022
15	Becoming fatigued	Becoming fatigues while working could cause my productivity levels to drop resulting in not completing my project before the deadline.	Ensure to take steps to minimise the risk of becoming fatigued	Use 'eye saver' mode on my monitor to reduce strain on my eyes. Make sure to sleep well and eat healthily to make sure I'm feeling energised before and throughout the day	Moderate	Minor	3	13/05/2022

# MoSCoW

## Must have:

- A functional Web App to demonstrate all the skills learned so far.
- Must be able to perform CRUD Functionality on app.

## Should have:

- Unit test for the validation of the application. Aim to reach the industry standard of 80% test coverage.

## Could have:

- A login page, so that users specific information can be remembered.

## Won't have:

- Elaborate CSS design as there is not enough time to include that in the project.

# Jira Board

<https://naima12.atlassian.net/jira/software/projects/CAR/boards/3/backlog>

# Review of Sprint

- For all entities, I was able to complete CRUD functionality
- I was able to establish a MySQL database and populate it with the relevant information
- I was able to test some of my code to find any faults or problems
- Unfortunately I was unable to achieve industry standard of 80% test coverage
- I was able to commit code to their separate branches before merging and pulling them into my repository.
- I was able to fulfill most of my user stories.

Demo



# Conclusion

- I have learnt many new skills over the past 10 weeks, and I believe I have demonstrated it adequately in this project.
- Unfortunately I feel that too much knowledge has been compressed into a short period of time, leaving me with insufficient time to comprehend key concepts and further consolidate new skills learnt.
- Learnt how to use a wide range of different technologies, some of which I used for the first time in this project
- In the future, when I am more confident in my abilities, I will add more robust and vigorous tests to my project.

Thanks for listening to my  
presentation