Java Based-HWA

(Auto Show) Hobby Software

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Technologies

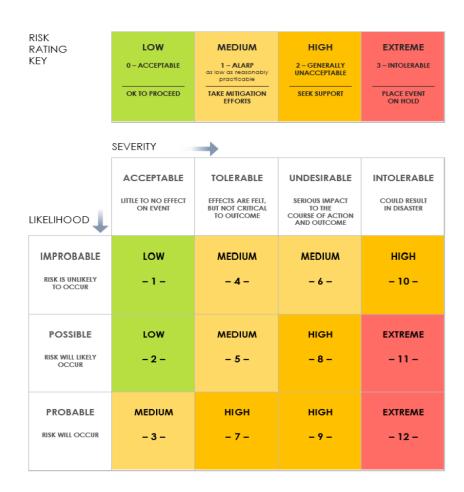
- Version Control System: Git
- Source Control Management: GitHub
- Project Management Board: Jira
- DBMS: MySQL Server 8.0.25
- Programming Language: Java v16
- API Development Platform: Spring
- Front-end Technologies: HTML, Bootstrap, JavaScript
- Build Tool: Maven
- Testing Framework: JUnit, Mockito

<u>APPROACH</u>

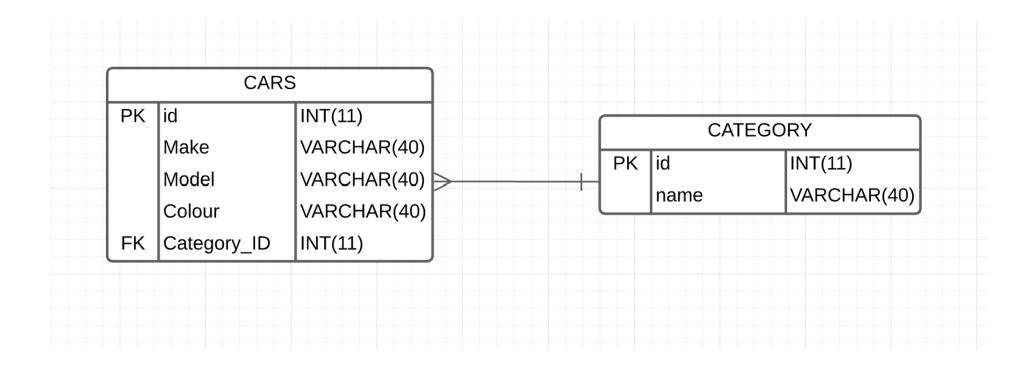
- Planning the project using the project management tool and agile techniques with Jira Scrum Board.
- Creating ERD for better understanding.
- Setting up Version control and Management tools.
- Following Epics, Tasks and User Stories from Jira.
- Creating Risk Assessment matrix for reviewing any possible risk for the project.
- Testing overall coverage

Risk Assessment Table & Matrix

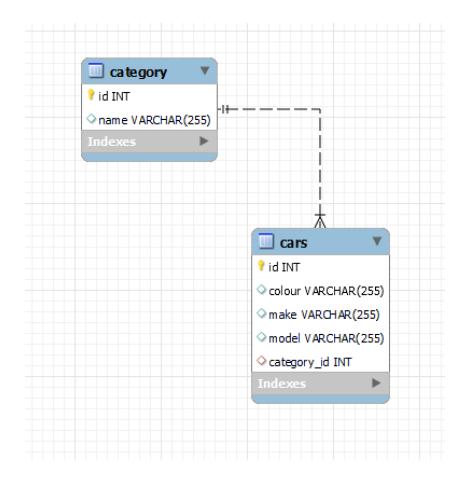
Description	Evaluation	Likelihood	Severity	Responsibility	Response
Unplanned tasks and Bugs(Unexpected problems)	Time management is important to be made for the task	High	High	Developer	Time management (do not get distributed with single error)
Developer becomes unwell	Project would be delayed	High	Medium	N/A	Ask for an extension if severity is high
SQL Workbench Versioning Issue	Versioning from pom file can disrupt the system working properly	High	High	Developer	Keeping pom file updated in every branch and every time while editing
Java versioning Issue	Versioning from pom file can disrupt the system working properly	High	High	Developer	Keeping pom file updated in every branch and every time while editing
Missed Deliverable	Marks would be lost	Medium	Medium	Developer	Attempting best possible way to maximise work effort
Failure to deliver on time	Potentially fail the project	Medium	Medium	Developer	Keep following Jira to not lose track



<u>Database</u>



Database



Testing-(Coverage)

Element	Coverage	Covered Instructions	Missed $\stackrel{\smile}{I}\!\!nstructions$	Total Instructions
✓	55.0 %	550	450	1,000
✓	47.0 %	372	420	792
> # com.qa.cars.domains	48.1 %	149	161	310
> # com.qa.cars.services	44.3 %	105	132	237
	28.0 %	21	54	75
	17.1 %	6	29	35
	37.5 %	15	25	40
> 🎛 com.qa.cars.utilities	41.3 %	31	44	75
> 🎛 com.qa.cars.dtos	70.7 %	58	24	82
> # com.qa.cars	37.5 %	3	5	8
> 🎛 com.qa.cars.config	100.0 %	5	0	5
> 🎏 src/test/java	85.6 %	178	30	208

Demonstration

Few minutes of software demonstration

Sprint Retrospective

What went well?

- Implementations.
- Version Control.
- Project Management.

Further Improvements?

- Testing skills needs to be improved(up skilling).
- Security plans for front-end.

Thank You for Listening

Any Questions?