Jedi-07 Group 4
Course Registration System

Flipkart

Stakeholders

Sponsors

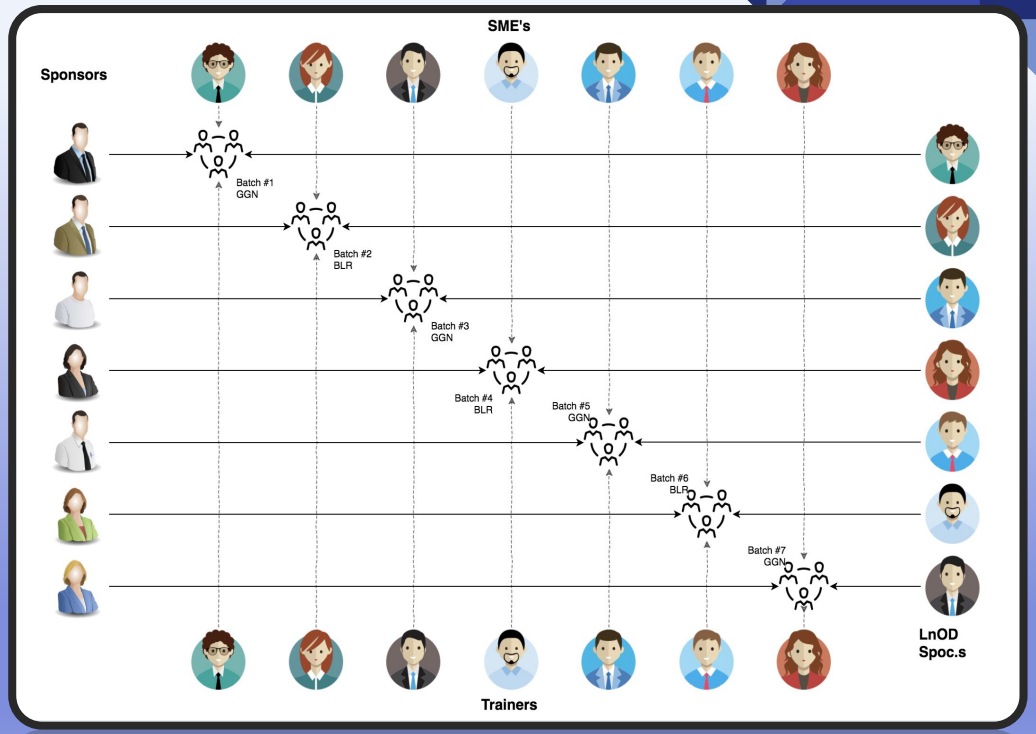
- Flipkart

Coordinator

- Deepika Gajraj

SME

- Amit Balyan



Agenda

01 Our Team

02 Our Journey

03 Contribution

04 Problem Statement

05 Engineering Practices

06 Tech Stack

07 Demo

08 Learnings

09 Challenges

10 Questions

OUR TEAM

Sandeep Padhi

Upasana Singh

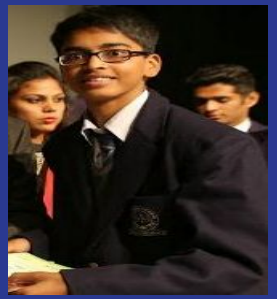
Ananya Jain

Abhinav Goyal

Nandini Mehta

Hardik Kothari

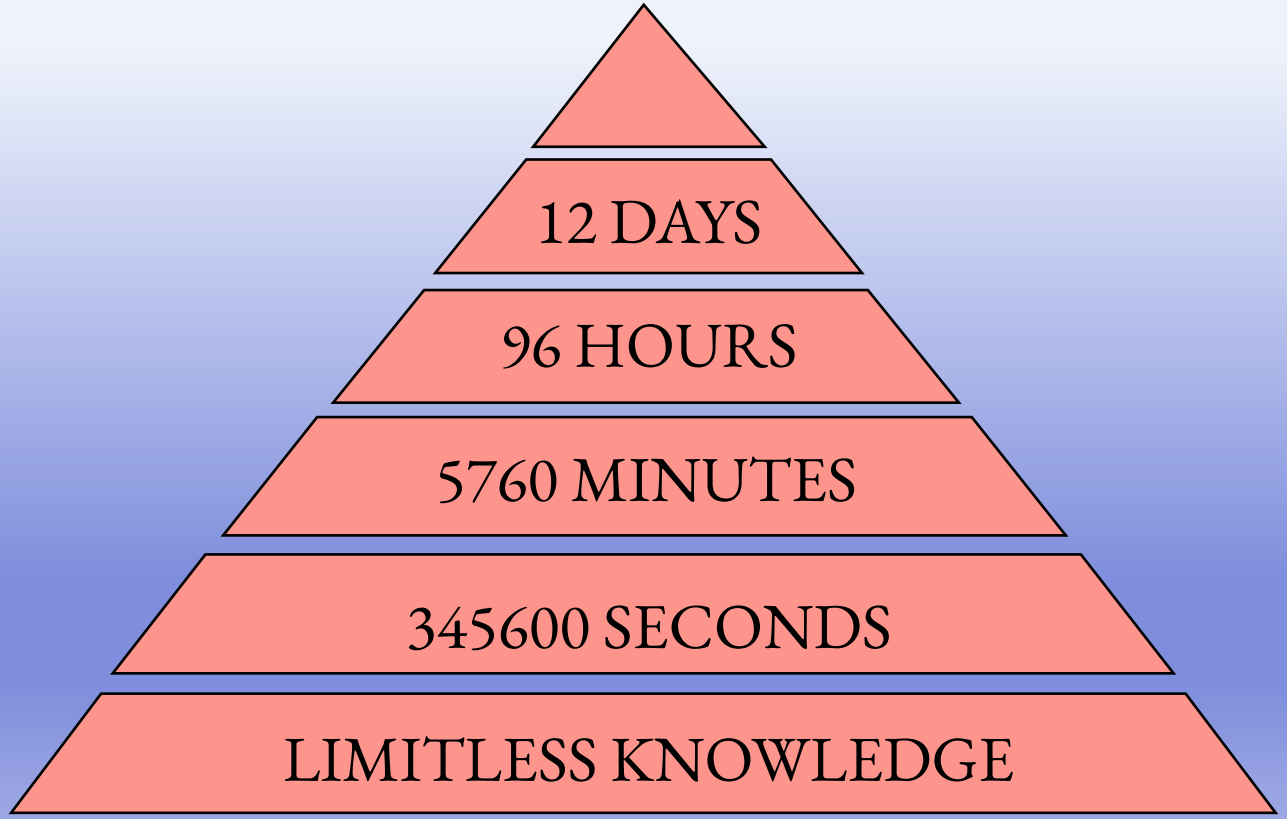
Srinivasa Krishnan



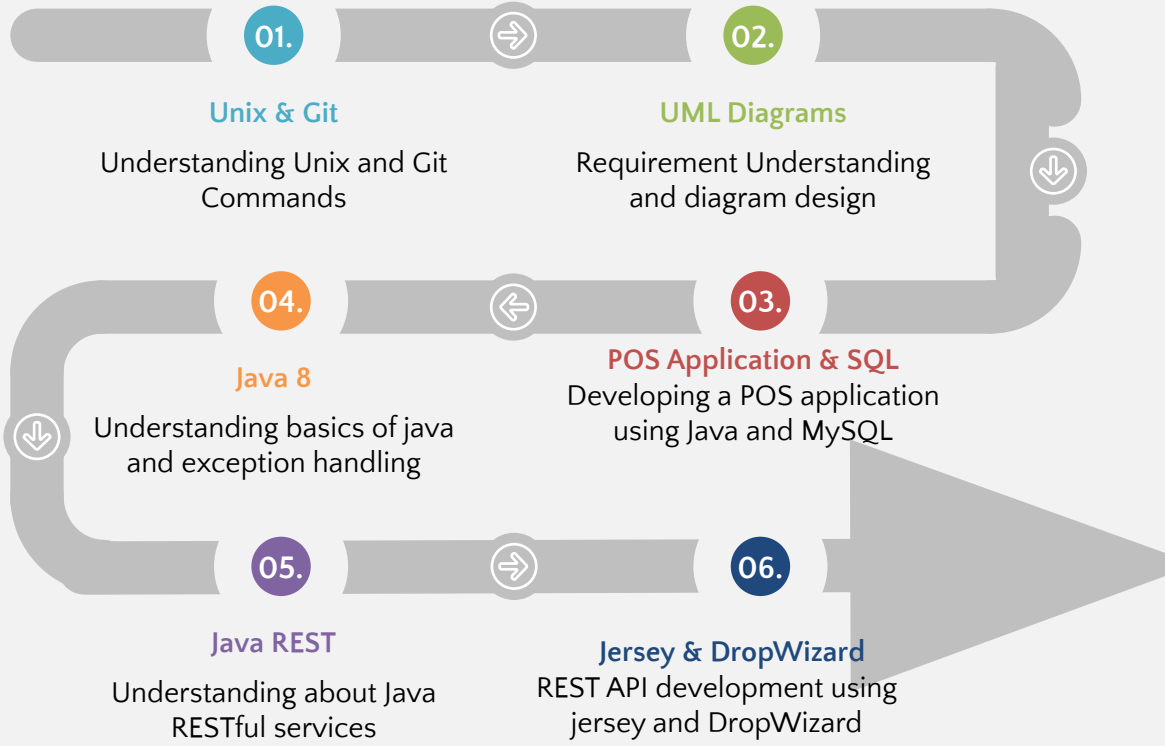
Harshwardhan Koushik

Our Journey

2 WEEKS OF TRAINING + PROJECT DEMO



Action Plan


01.
Unix & Git
Understanding Unix and Git Commands
02.
UML Diagrams
Requirement Understanding and diagram design
03.
POS Application & SQL
Developing a POS application using Java and MySQL
04.
Java 8
Understanding basics of java and exception handling
05.
Java REST
Understanding about Java RESTful services
06.
Jersey & DropWizard
REST API development using jersey and DropWizard

Contribution:

Name	Responsibility
Abhinav Goyal	Implemented Admin functionalities, designed UML Diagrams, Integration, Testing, writing sql queries, implementing restApi (Admin), implemented dropwizard
Nandini Mehta	Implemented Student functionalities, UML Diagrams,Testing, writing sql queries, implementing restApi (student), implemented dropwizard
Upasana Singh	Implemented User functionalities,Admin Activity and Sequence Diagram,Testing,Documentation, writing sql queries, implementing restApi(User), implemented dropwizard
Hardik Kothari	Implemented Professor functionalities,UML Diagrams,Testing, writing sql queries, implementing restApi (Professor), implemented dropwizard
Harshwardan Koushik	Implemented Student functionalities, designed UML Diagrams, Integration, Testing, writing sql queries, implementing RestApI (student), implemented dropwizard
Srinivas Krishnan	Implemented User functionalities, Usecase Diagram,Exception handling, Integration, Testing, writing sql queries.
Ananya Jain	Implemented Admin functionalities, Activity and Sequence Diagram, Integration, Testing, writing sql queries, designing database table
Sandeep Padhi	Implemented professor functionalities , Exception handling, Activity Diagram,Integration,Documentation,Testing,designing database table.

PROJECT GOALS

Problem Statement

Create a Course Registration System

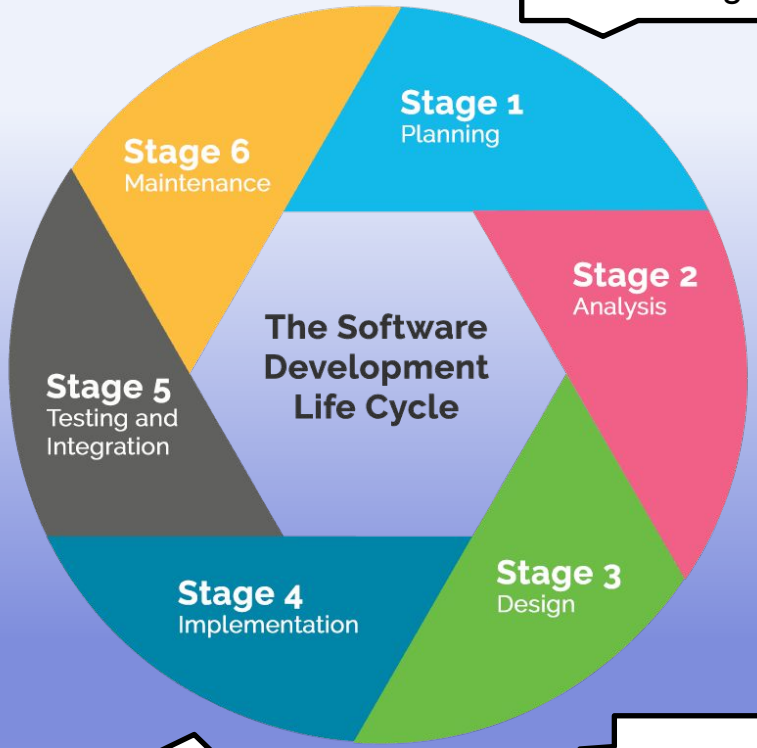
- Entities involved are: Student, Professor, Admin
- Students should be able to Register for courses and view an electronic report card at the end of the semester.
- Professors access the system to choose and teach courses, record grades.
- The Admin should be able to Approve a Student, Register a Professor, add/remove course from course catalog.
- The System should allow students to select courses. Students can add/drop courses.
- After the registration, the system sends information to the billing system so that the student can be billed for the semester.

Our Vision

To create a **Course Registration System** using JAVA/REST tools and technologies, where a professor as well as a student can view courses and enroll in some of the courses.

Engineering Practices

Requirement Gathering



Tech Stack Selection

UML Artifacts, Architecture Design

Code development

Testing & Bug Fixes


GitHub


Java


git


MySQL


Unified
Modeling
Language


TECHSTACK

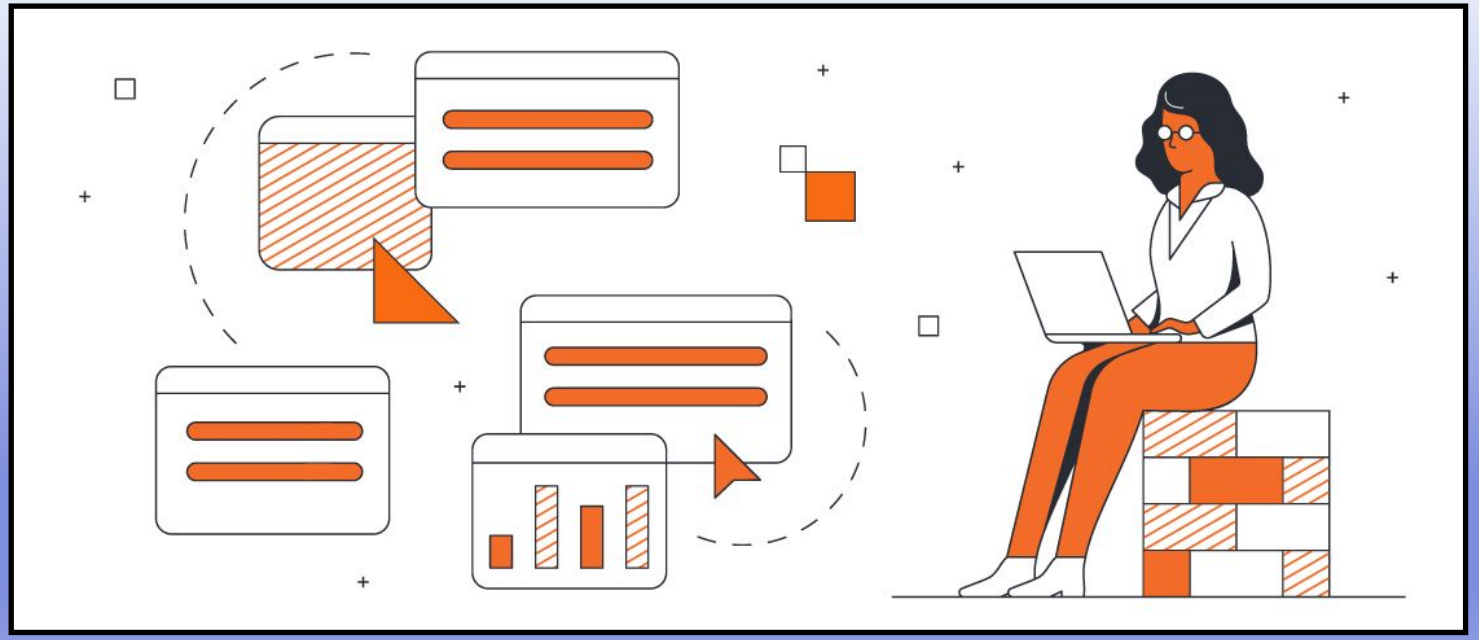

Jersey
RESTful Web Services in Java.


Apache Tomcat

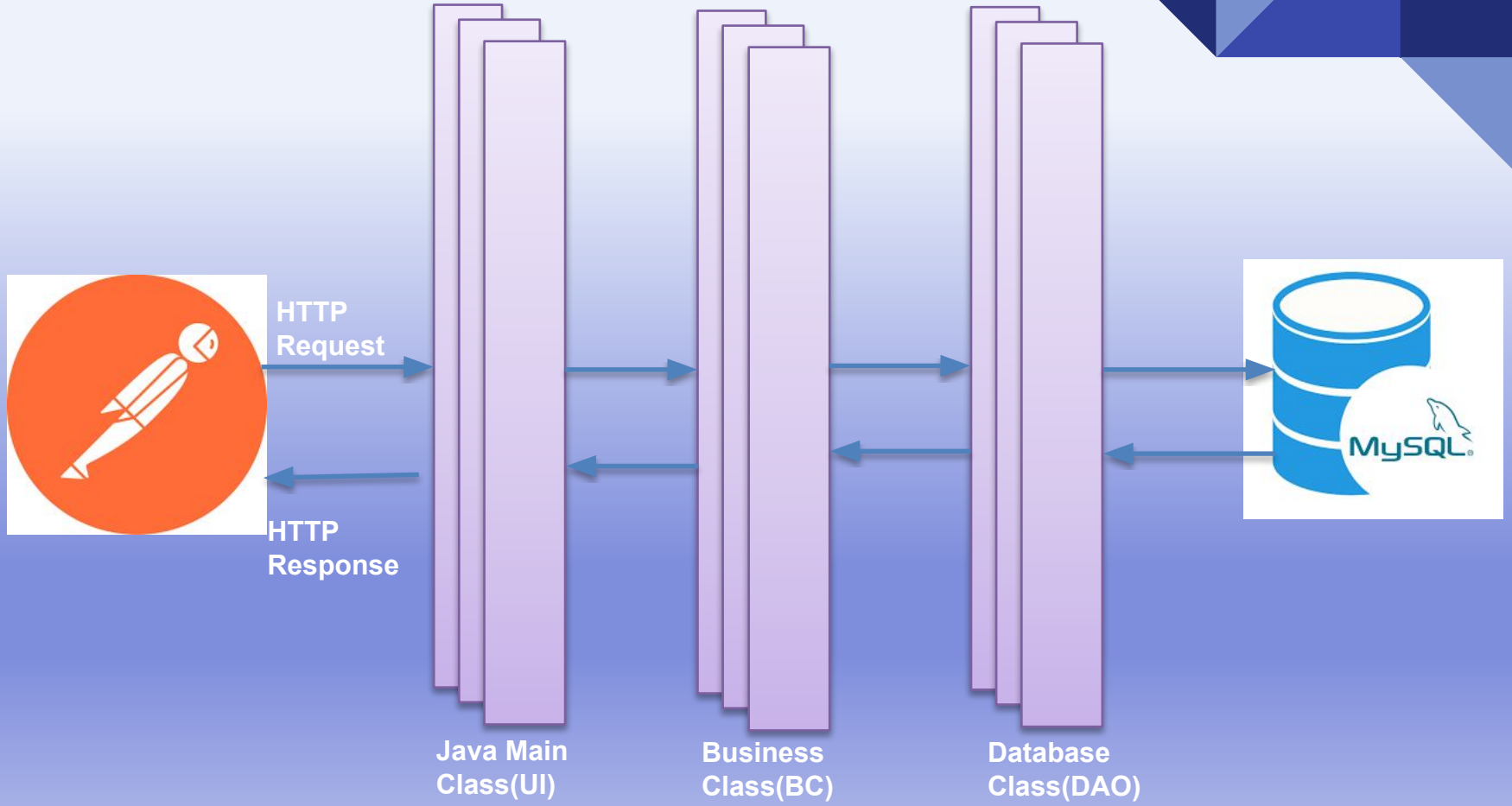

REST


Dropwizard

ARCHITECTURE DESIGN



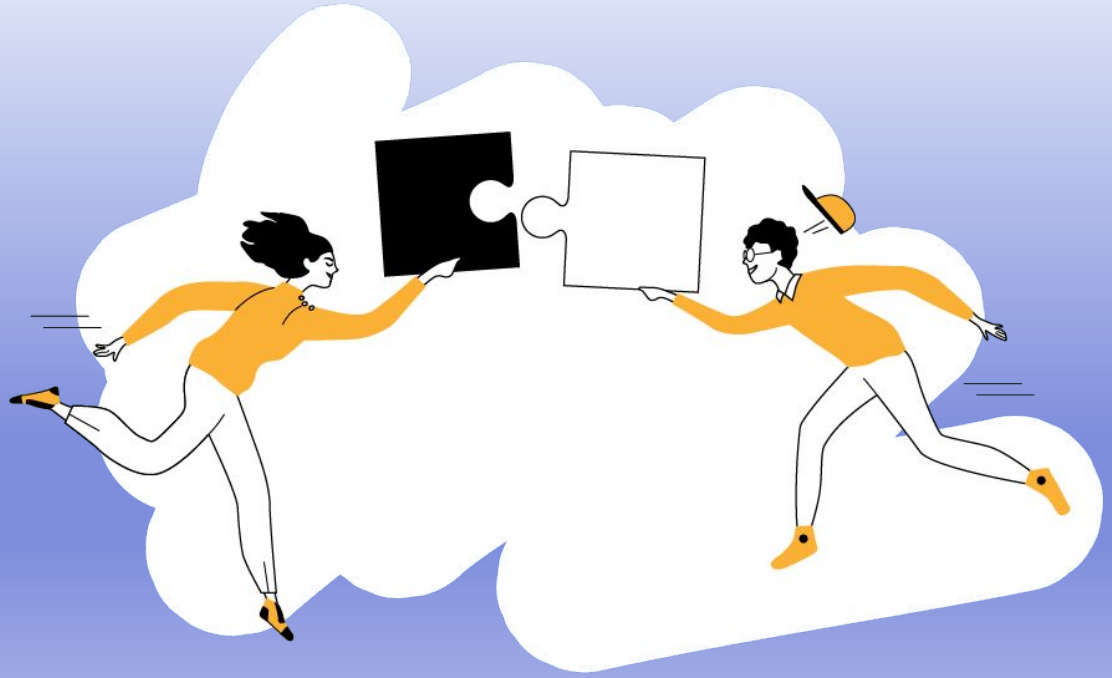
SYSTEM ARCHITECTURE



- UML Artifacts
- POS Application
- Rest Application
- Dropwizard

Git repo - https://github.com/Upasana1216/CRS-JEDI-7-Project-Repo

LEARNINGS AND CHALLENGES



LEARNINGS

- Familiarization with Unix Commands.
- Getting hang of the basic Git commands.
- Software Development Life Cycle.
- Knowledge and Implementation of Activity, Sequence and Use Case Diagram.
- Java 8 features.
- Integration of REST Services with Java code using Tomcat and Jersey.
- Dropwizard Integration and Advantages.
- Usage of Postman for testing APIs.
- Javadoc Generation & basic Application Monitoring.

CHALLENGES

- Understanding the problem statement and initial implementation using Use Case, activity, sequence and class diagram.
- Installing software on multiple environments.
- Git merge conflicts.
- Resolving jar and version dependencies.
- Migration of project from one tech stack to another.
- Database integration challenges.
- Working Remotely

ANY QUESTIONS?

THANK YOU!!