FLIPKART

JEDI GROUP - E

OUR TEAM

TEAM

Rishabh

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Harshil

Sharath

Manoj

Yash

STAKEHOLDERS

1. Sponsors
   - Flipkart
2. SME’s
   - Mr. Amit Balyan
3. Co-ordinators
   - Ms. Anushka Khanna

AGENDA

01 Framework of 6 days

02 Project Goals

03 Our Journey

04 Understanding SDLC

05 UML Artifacts

06 Tech Stack

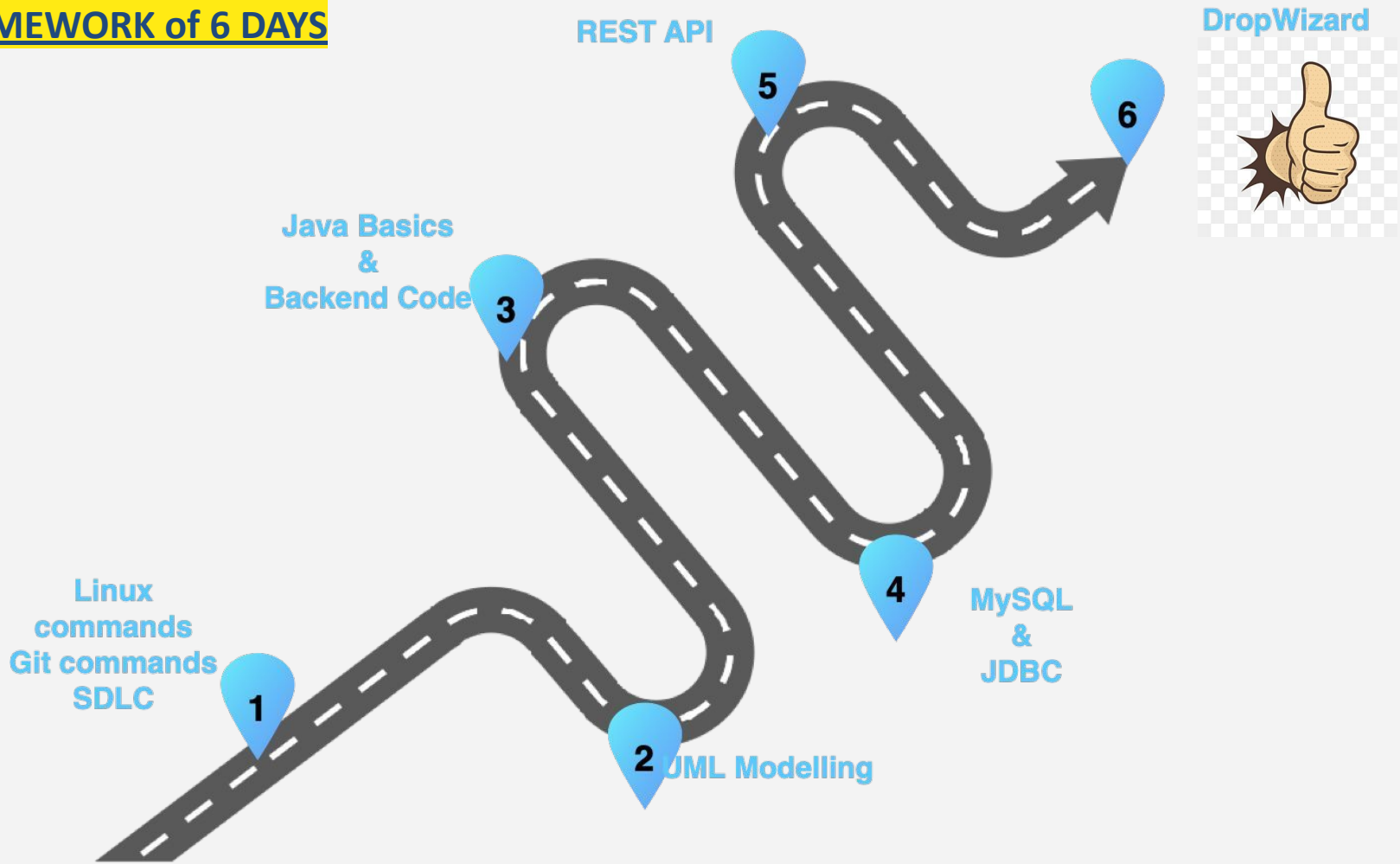
07 Development

08 Learnings & Challenges

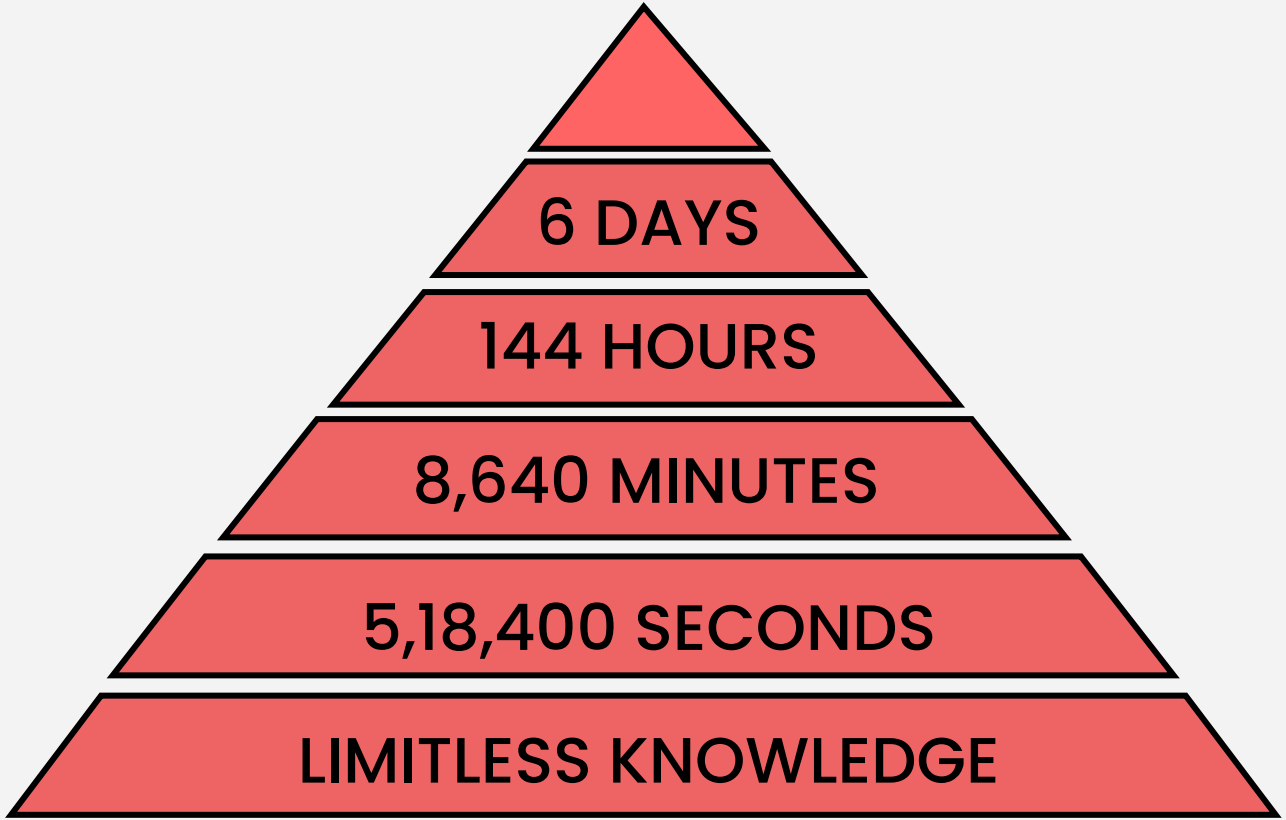
09 Demo

The Ask – Where we started?

FRAMEWORK of 6 DAYS



6 DAYS TRAINING + PROJECT DEMO



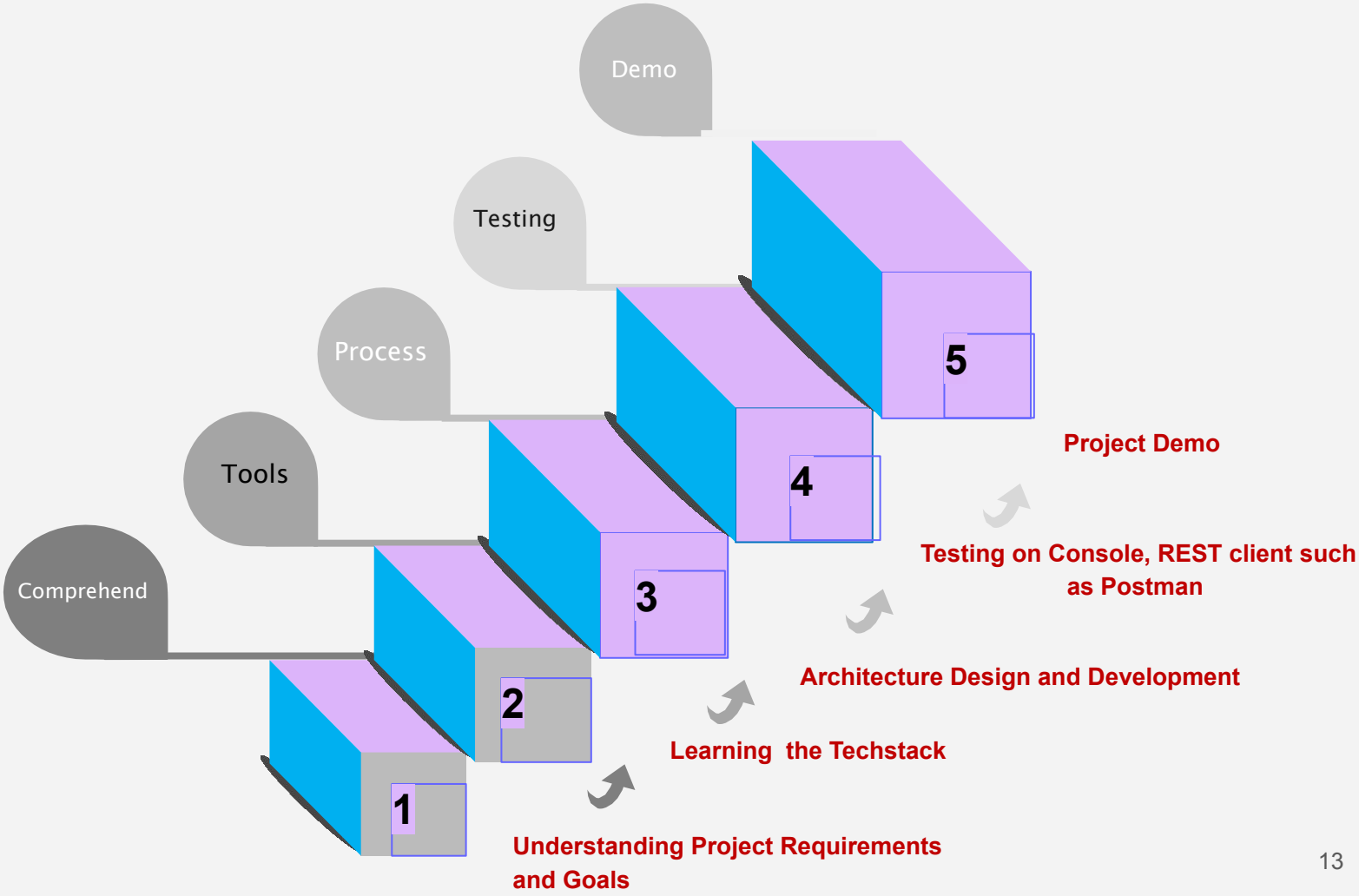
PROJECT GOALS

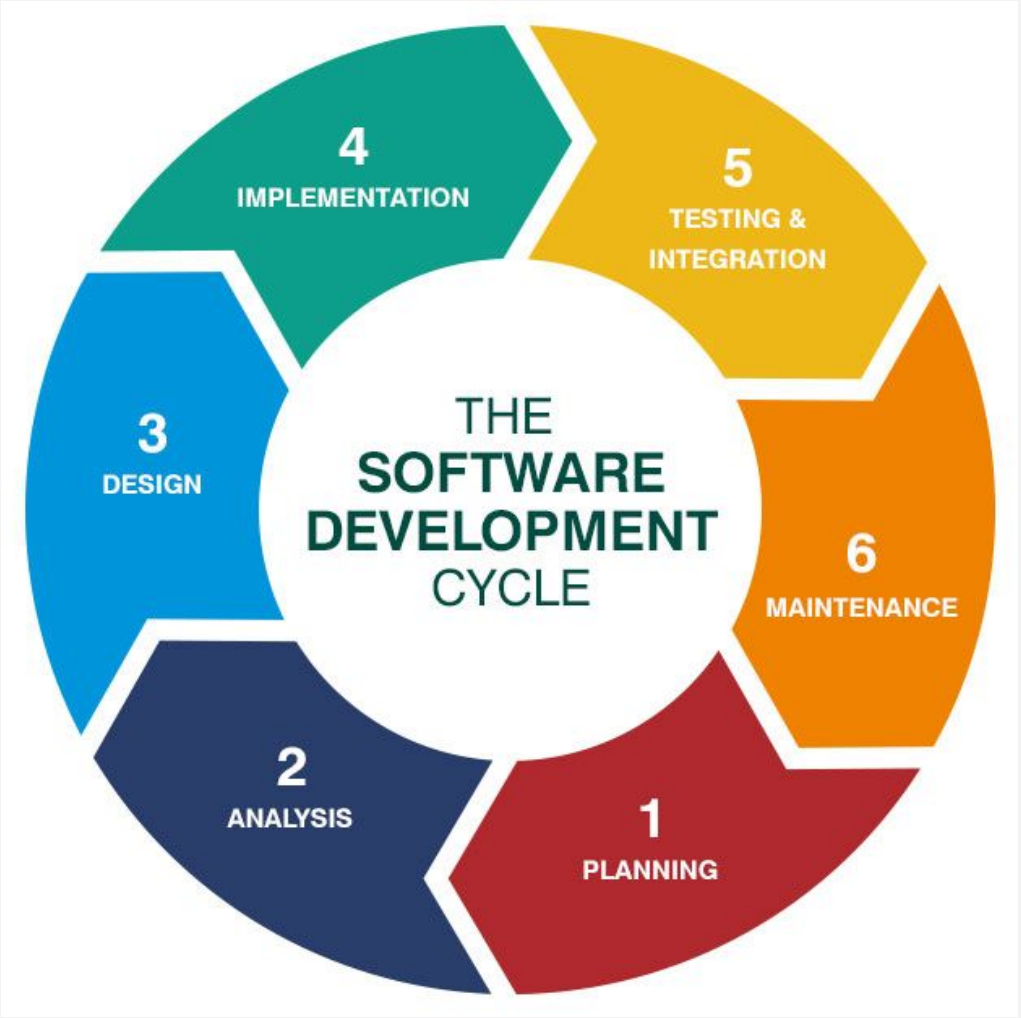
Vision

To develop a POS application and REST API application for **Course Registration System** using JAVA where :

- student can view catalogue, add & drop primary and secondary course, register, pay fee, view grade sheet
- professors can view courses, select courses to teach, view enrolled students, assign grades to students
- admin can approve student registration, generate grade sheet, add/drop courses to catalogue.

OUR JOURNEY


Demo
Testing
Process
Tools
Comprehend
5
4
3
2
1
Project Demo
Testing on Console, REST client such as Postman
Architecture Design and Development
Learning the Techstack
Understanding Project Requirements and Goals


4
IMPLEMENTATION
5
TESTING &
INTEGRATION
3
DESIGN
THE
SOFTWARE
DEVELOPMENT
CYCLE
6
MAINTENANCE
2
ANALYSIS
1
PLANNING

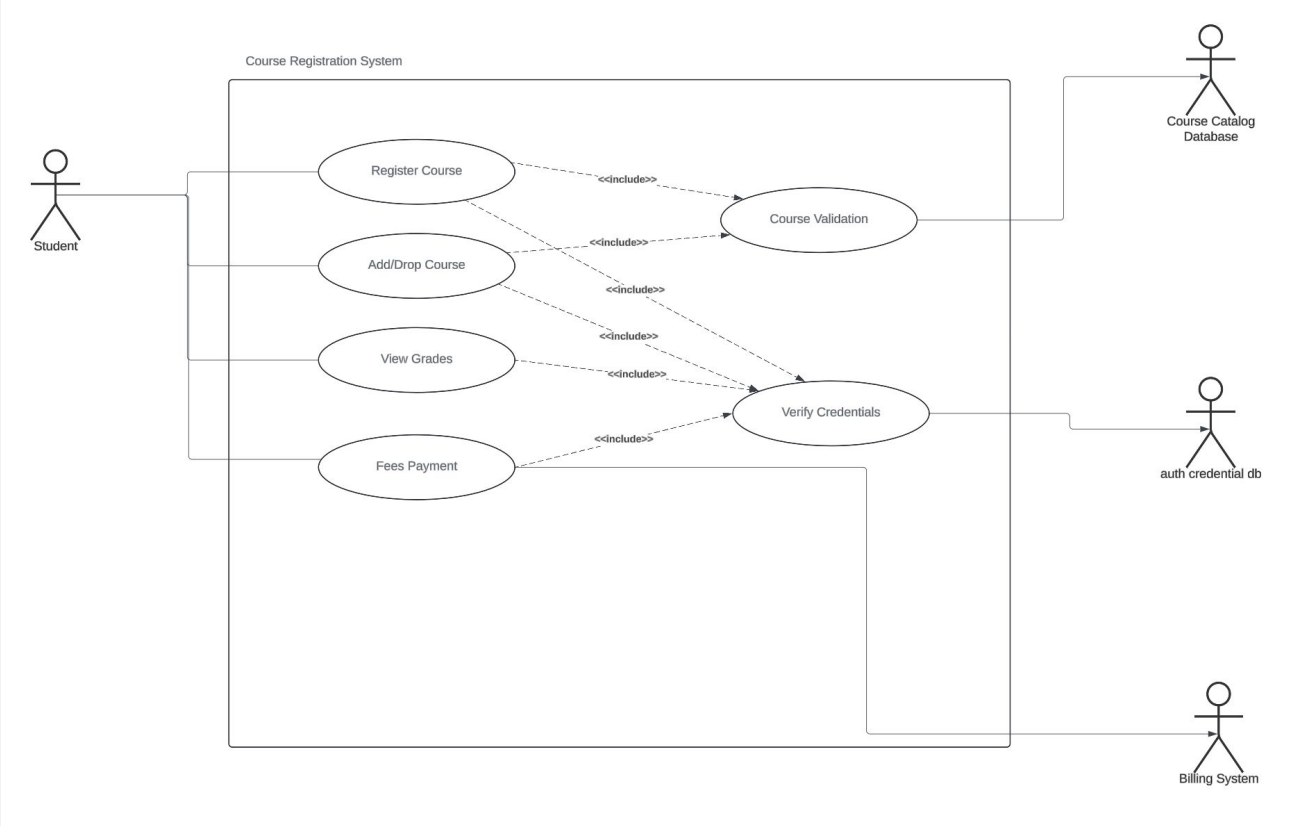
UML Design

1. Use Case Diagrams

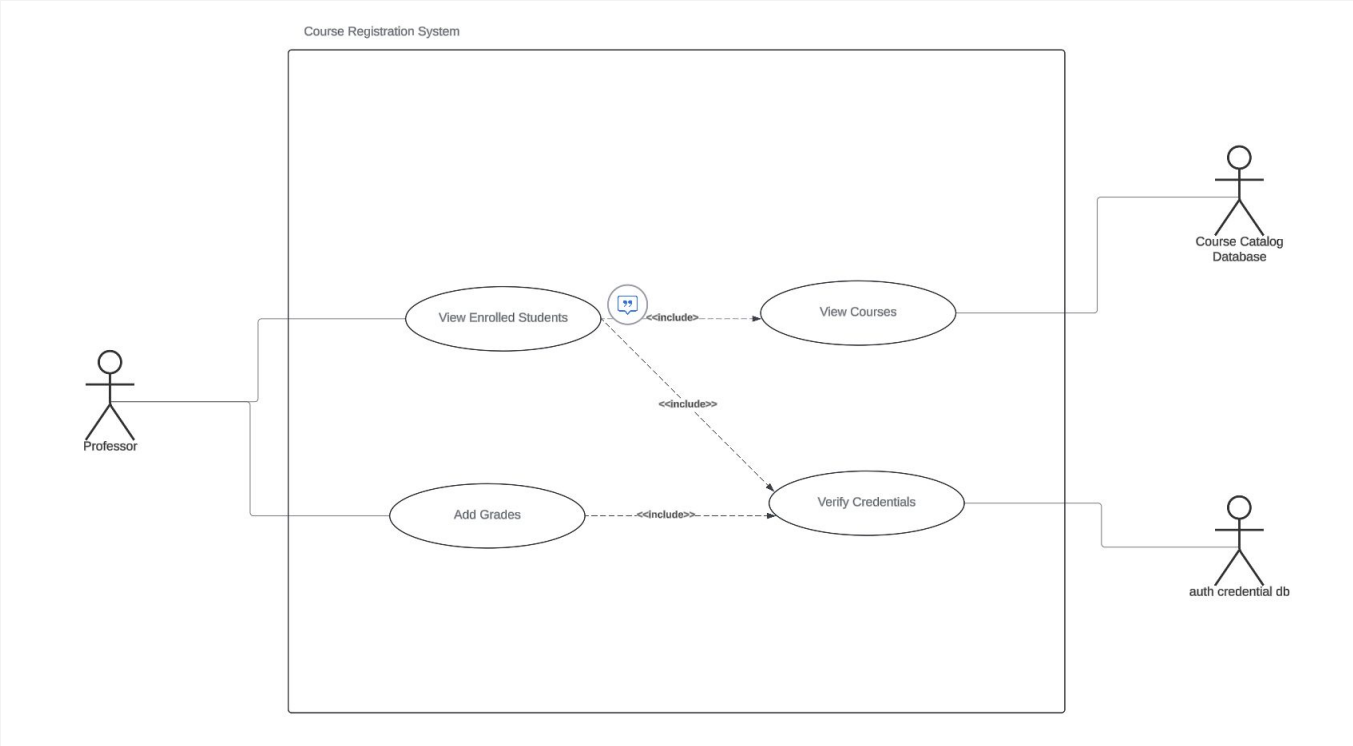
2. Activity Diagrams

3. Class Diagram

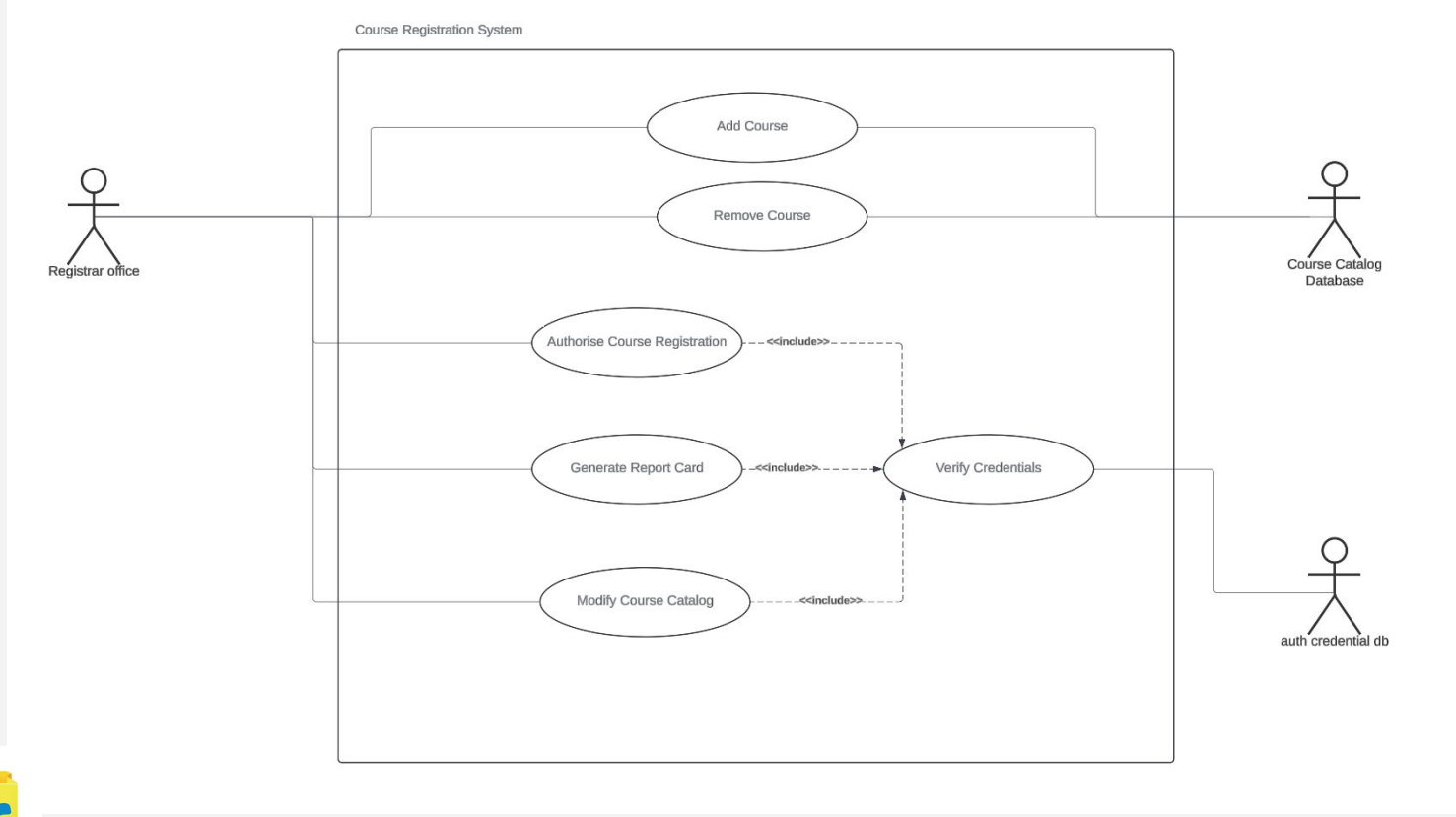
STUDENT USE CASE DIAGRAM



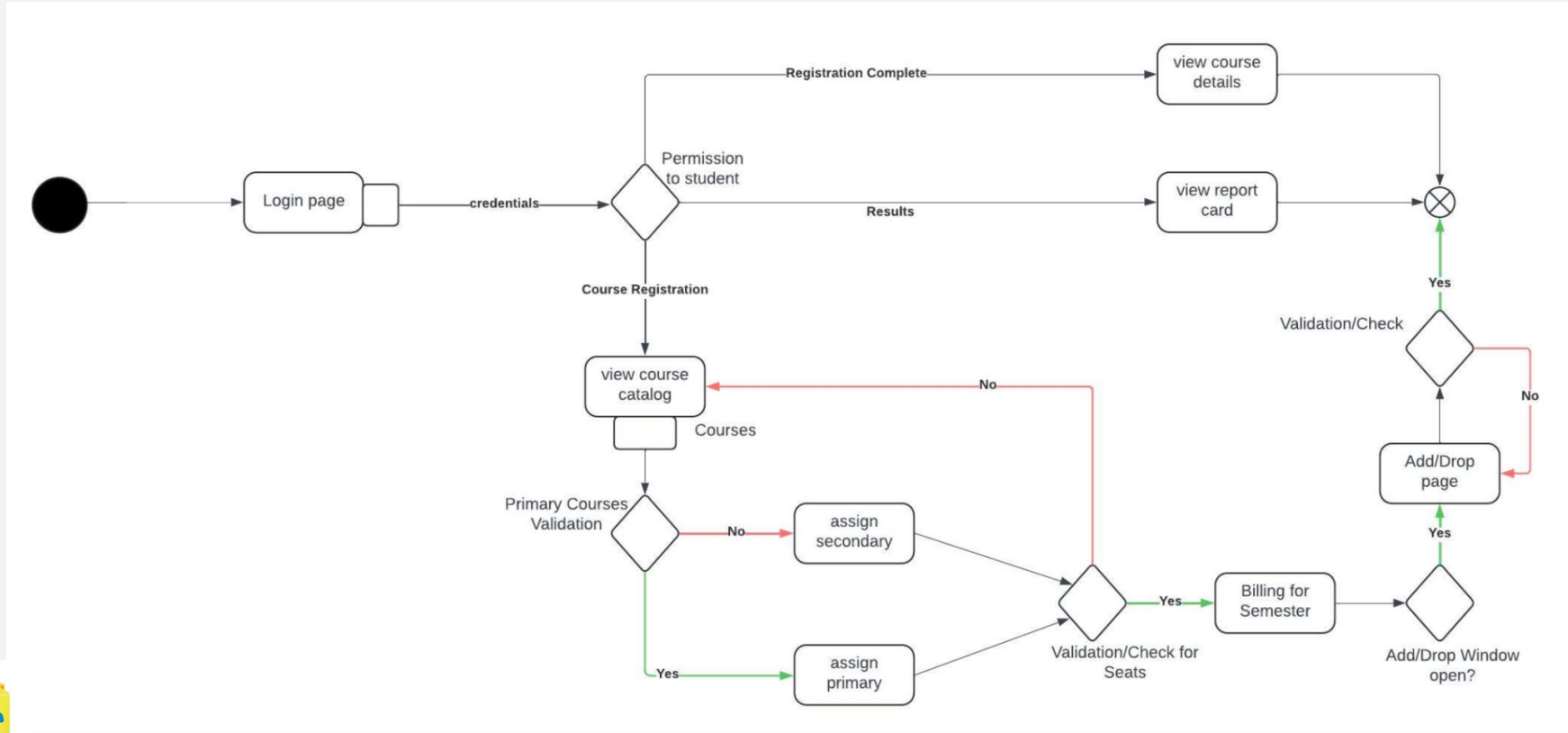
PROFESSOR USE CASE DIAGRAM



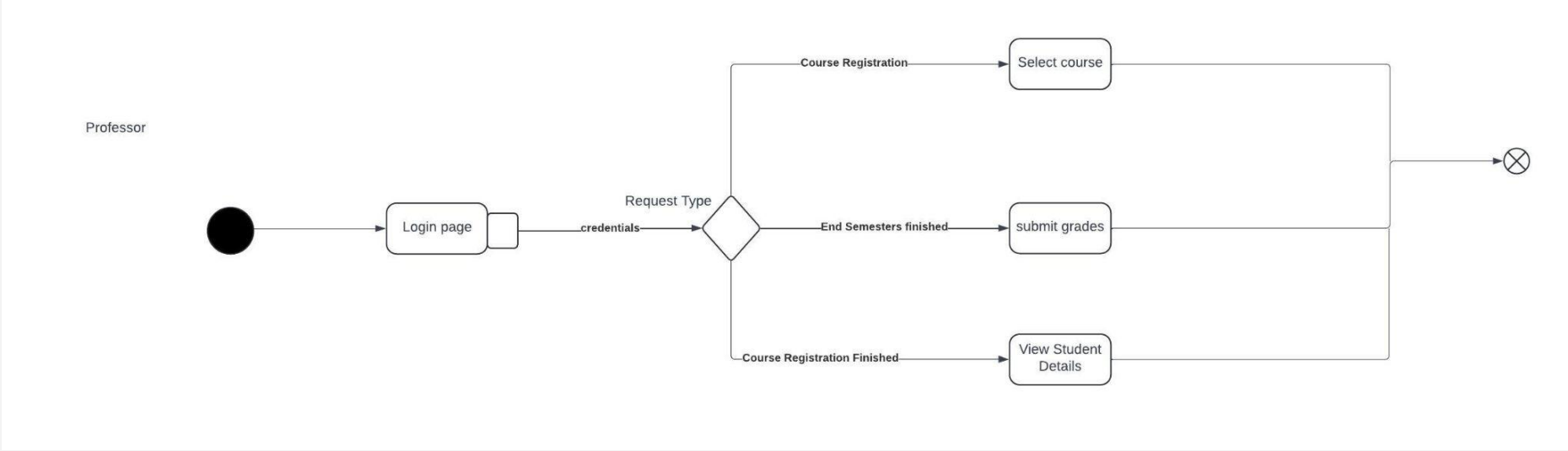
ADMIN USE CASE DIAGRAM



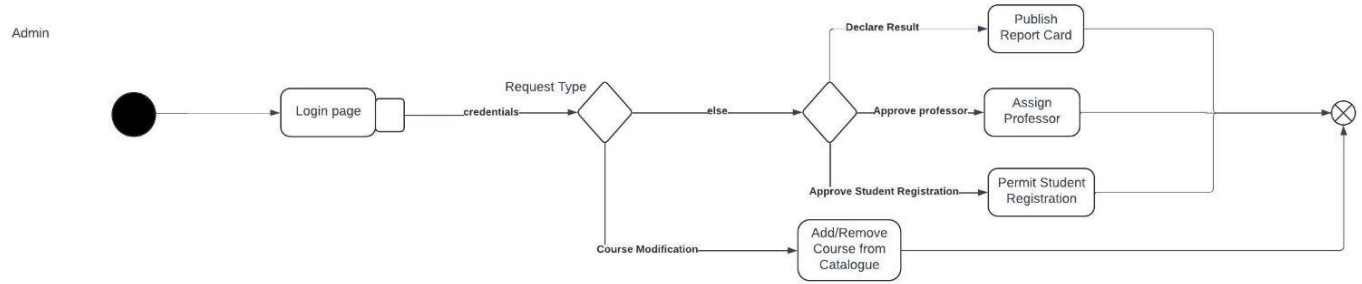
STUDENT ACTIVITY DIAGRAM



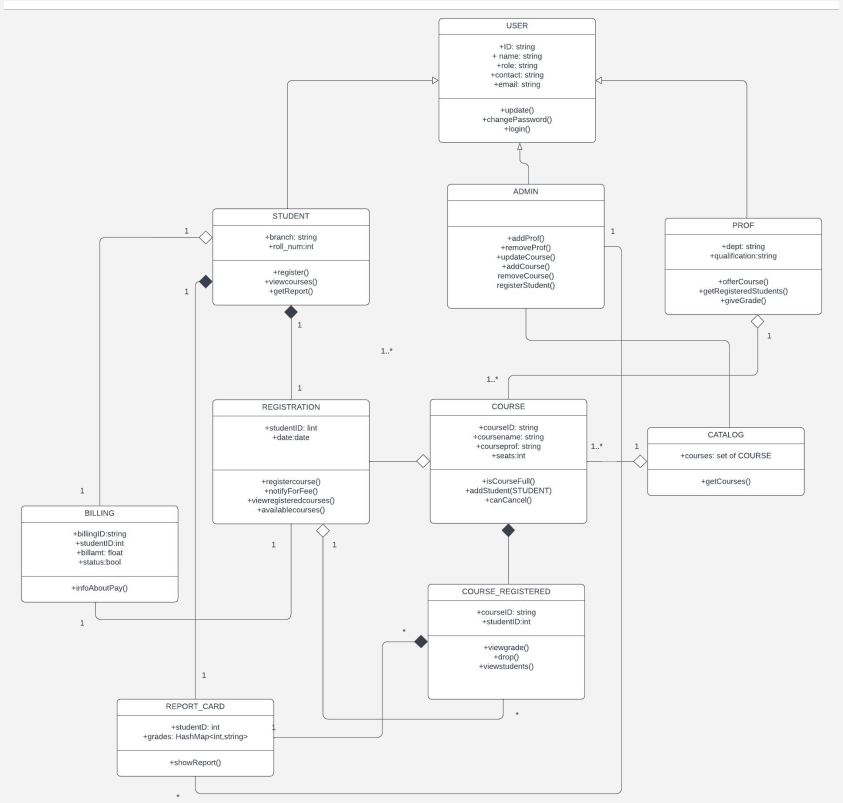
PROFESSOR ACTIVITY DIAGRAM



ADMIN ACTIVITY DIAGRAM



CLASS DIAGRAM



TECH STACK

Designing

UML

Lucidchart

Backend

Core Language

Java

Framework

DROPWIZARD

Maven

Jersey

REST API

Application Server

jetty://

Testing

Tools

POSTMAN

Data

SQL Database

MySQL

MySQL Workbench

SCM

Code Collaboration

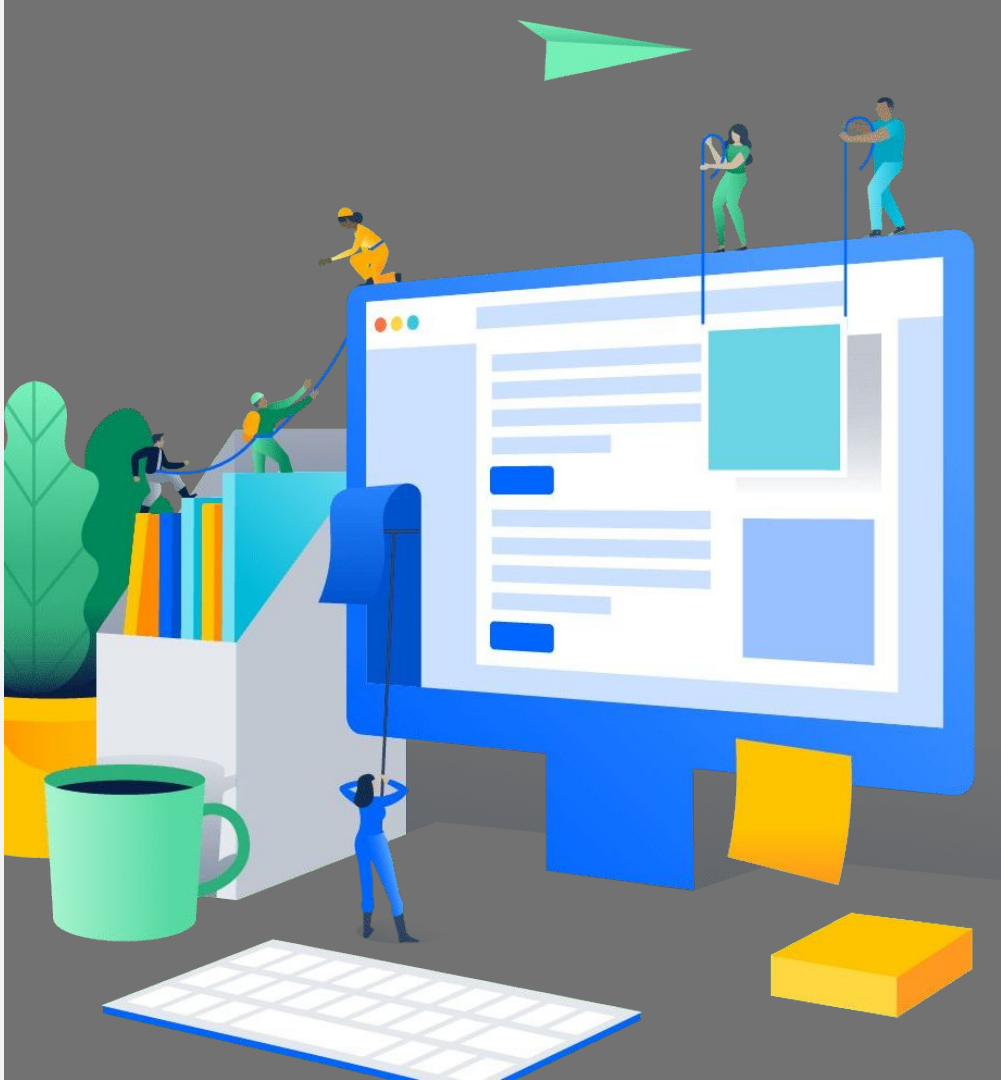
GitHub

git

Spring Tools 4

CODEBUNK

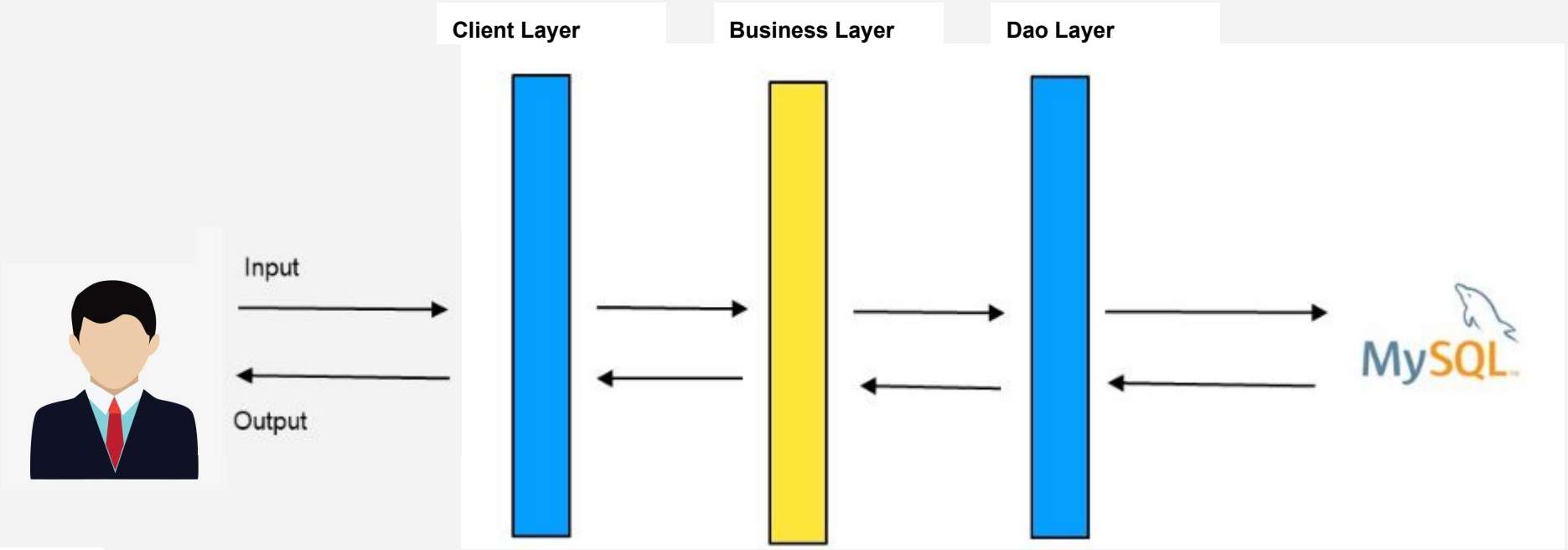
DEVELOPMENT



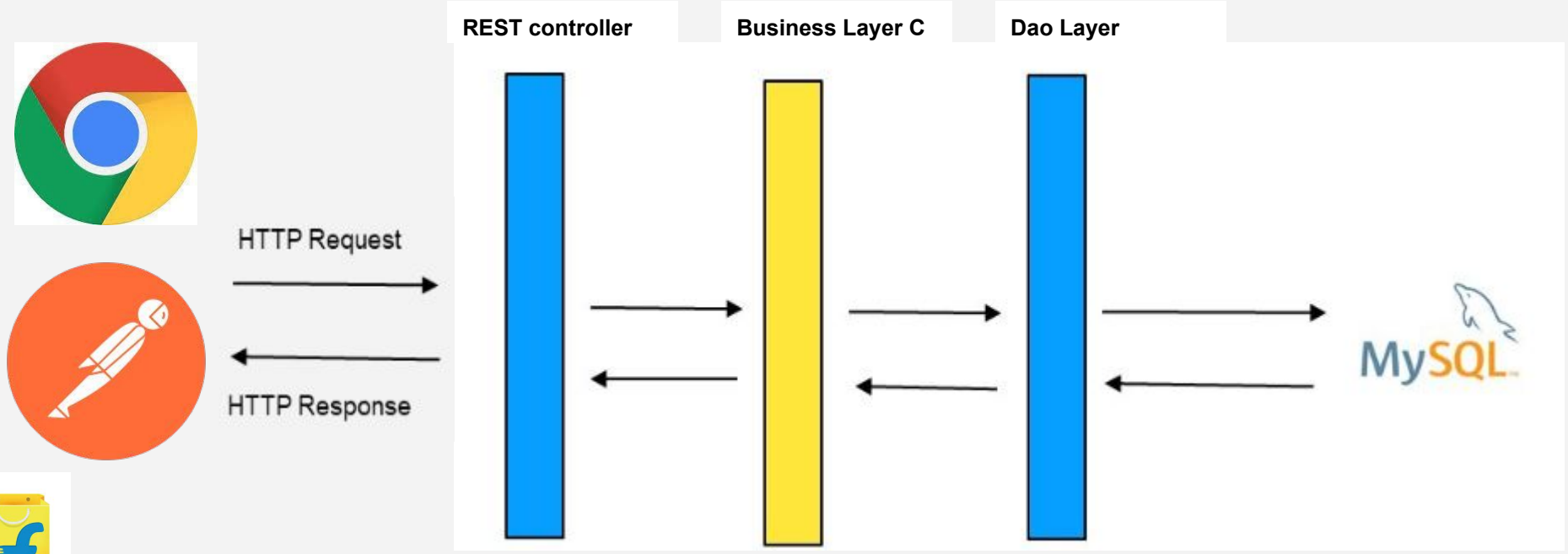
PROCESS

- **Requirement Analysis and UML Artifacts:** Analyzed requirements and finalized UML diagrams to outline the system's structure and design.
- **Class Definitions:** Created classes based on the Class diagram and developed the corresponding bean package for the CRS (Customer Reservation System).
- **Service Definitions:** Designed the services for the CRS and developed the service package accordingly.
- **User Interface Development:** Implemented the menu for user interactions within the POS (Point of Sale) version of the CRS.
- **Database Integration:** Designed the database schema and integrated it into the core Java application using JDBC.
- **Web Service Extension:** Enhanced the POS CRS by extending its functionality to a Web Service through the implementation of REST APIs using Dropwizard.
- **Collaborative Testing and Bug Resolution:** Worked collaboratively to resolve bugs and rigorously tested the system at each stage of the development process.

POS Application



REST API Application



LEARNINGS & CHALLENGES

Learnings

- Team Work (collaboration)
- New technologies. - DropWizard, Maven, Postman, MySQL etc.
- Industry level project experience
- Learned how to develop UML diagrams for the given problem.
- Learned to configure Maven and DropWizard.
- Integration of REST Services with JAVA code.

Challenges

- Database Integration Challenges
- Configuring and installing new technologies
- Code debugging

DEMO

Thank you!