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# Project Presentation

## JEDI 2.0

Group F



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# JEDI Program

- **DURATION:** 1 week
- **PROGRAM STRUCTURE**
  - Introduction to Git and GitHub
  - SDLC and OOAD
  - Core Java Programming
  - Dropwizard and REST
  - Project
- Training using various practice implementations and demonstrations





# Stakeholders

- **Sponsors**
  - Flipkart
- **SME - Subject Matter Expert**
  - Amit Balyan (Linkedin top 10 voices)
- **Trainers**
  - Heena Bansal
  - Sharath Ramesha





# Our Team



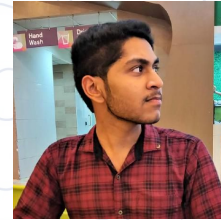
Aditya Gupta



Avantika  
Mudumbai



Nandita Tomar



Sai Krishna  
Jupally



Vishal Gosain



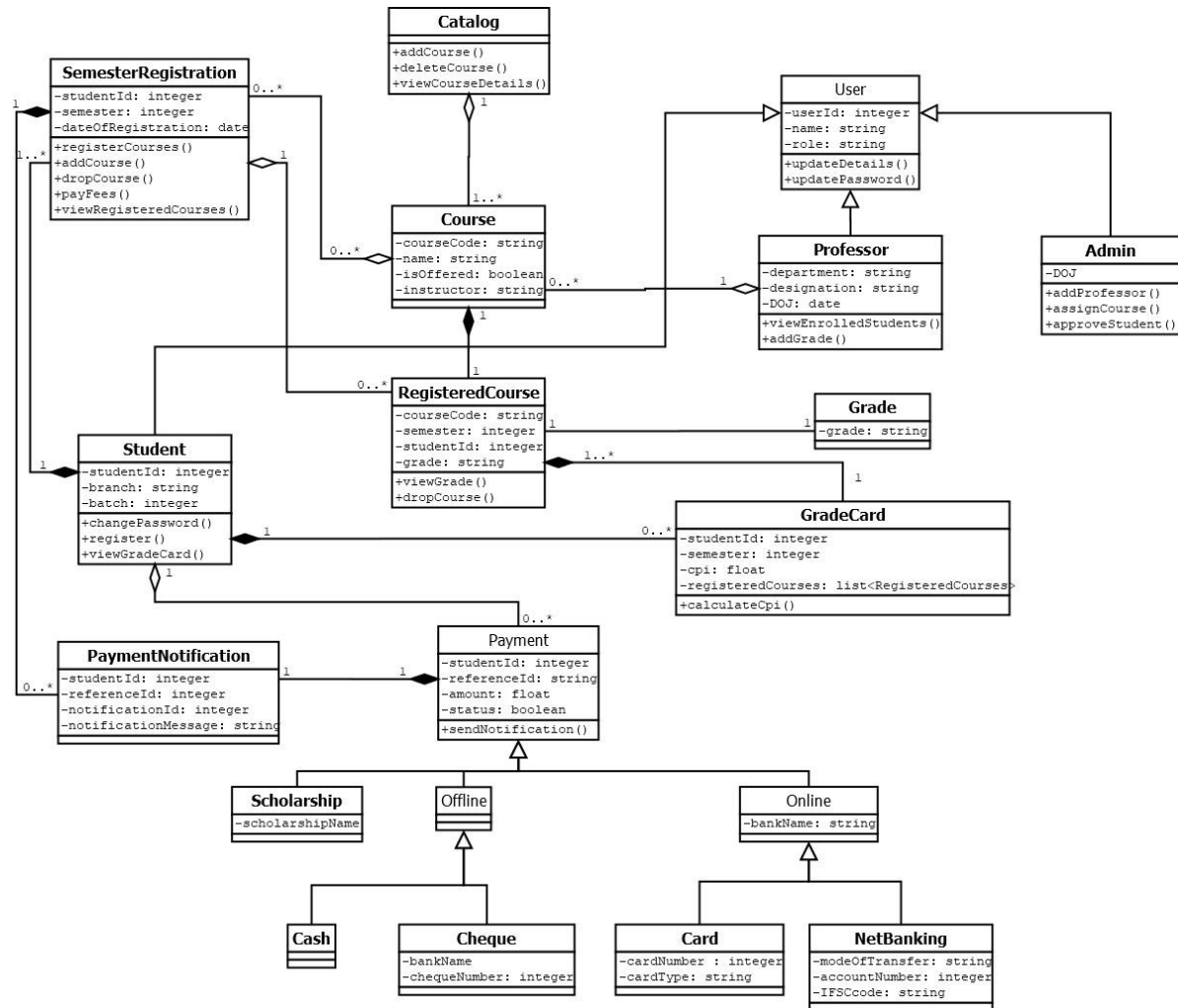
# The Project

## COURSE REGISTRATION SYSTEM

A client-server system that allows students to register for courses and view report cards from personal computers. Professors should be able to access the system to sign up to teach courses as well as record grades.

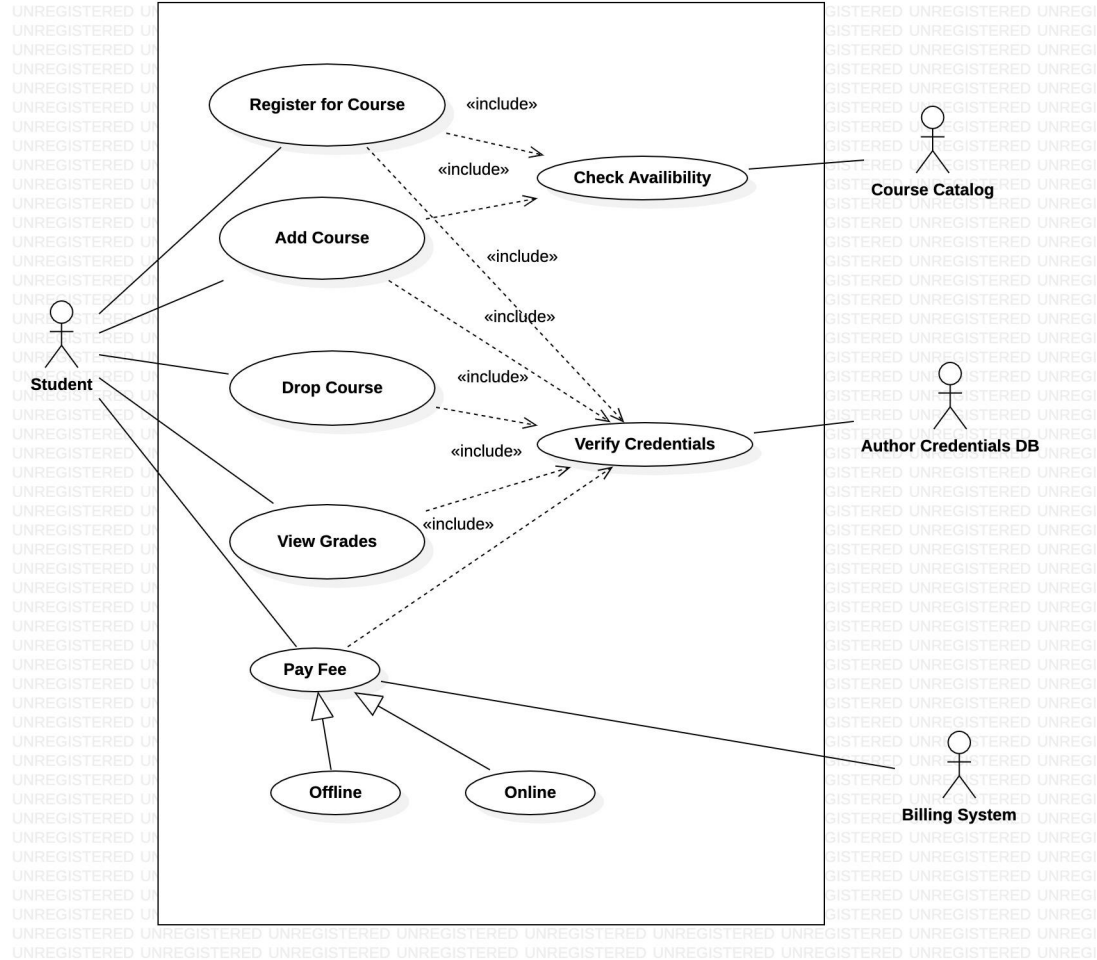
The new system should be designed to meet the following requirements:

- It should be easy to use for both students and faculty.
- It should be secure and protect student data.
- It should be scalable to accommodate the growth of the college.
- It should be affordable.
- It should be able to use the legacy database without considerable latency

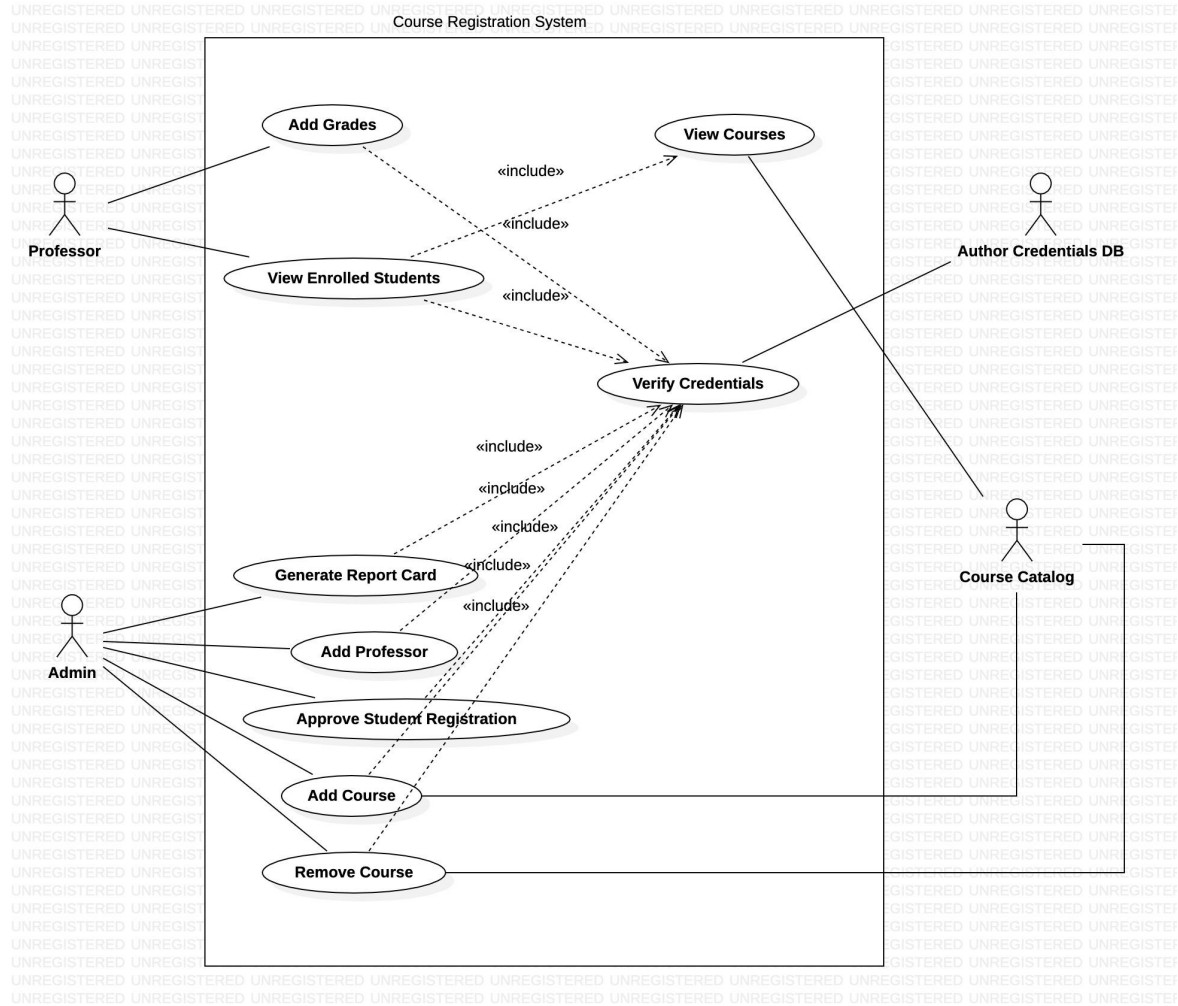




# Course Registration System









# Tech Stack



**JAVA** - The main programming language for the project



**MySQL** - Database used for the project



**GitHub** - Version Control System and collaboration platform for development using Git



# Development

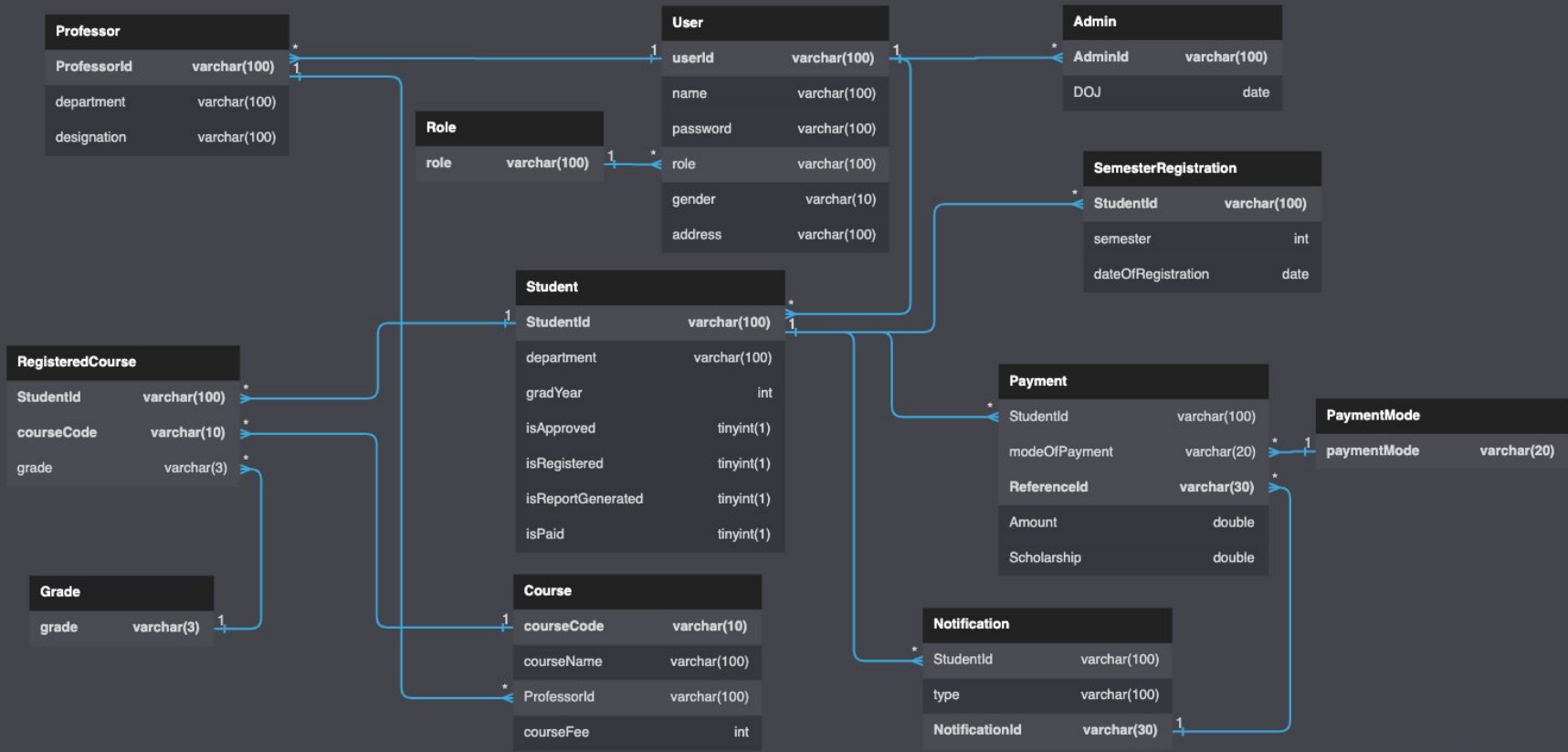
- Incremental stage-wise development of the project:
  - Beans and Service separation
  - Clients with role-specific menus
  - JDBC connection and DAO
  - Code refactoring
    - Utils for reuse
    - Validators
    - Exceptions
    - Modern practices

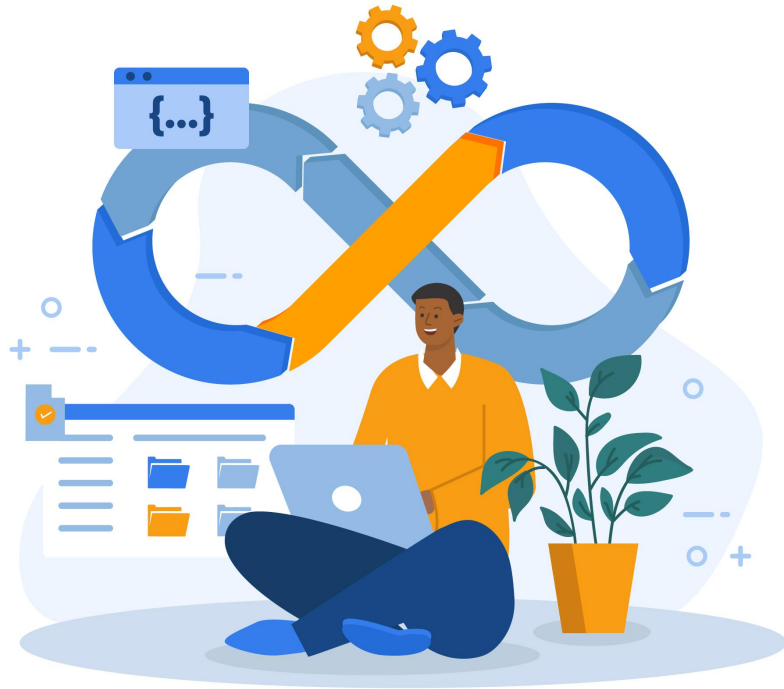




# Development

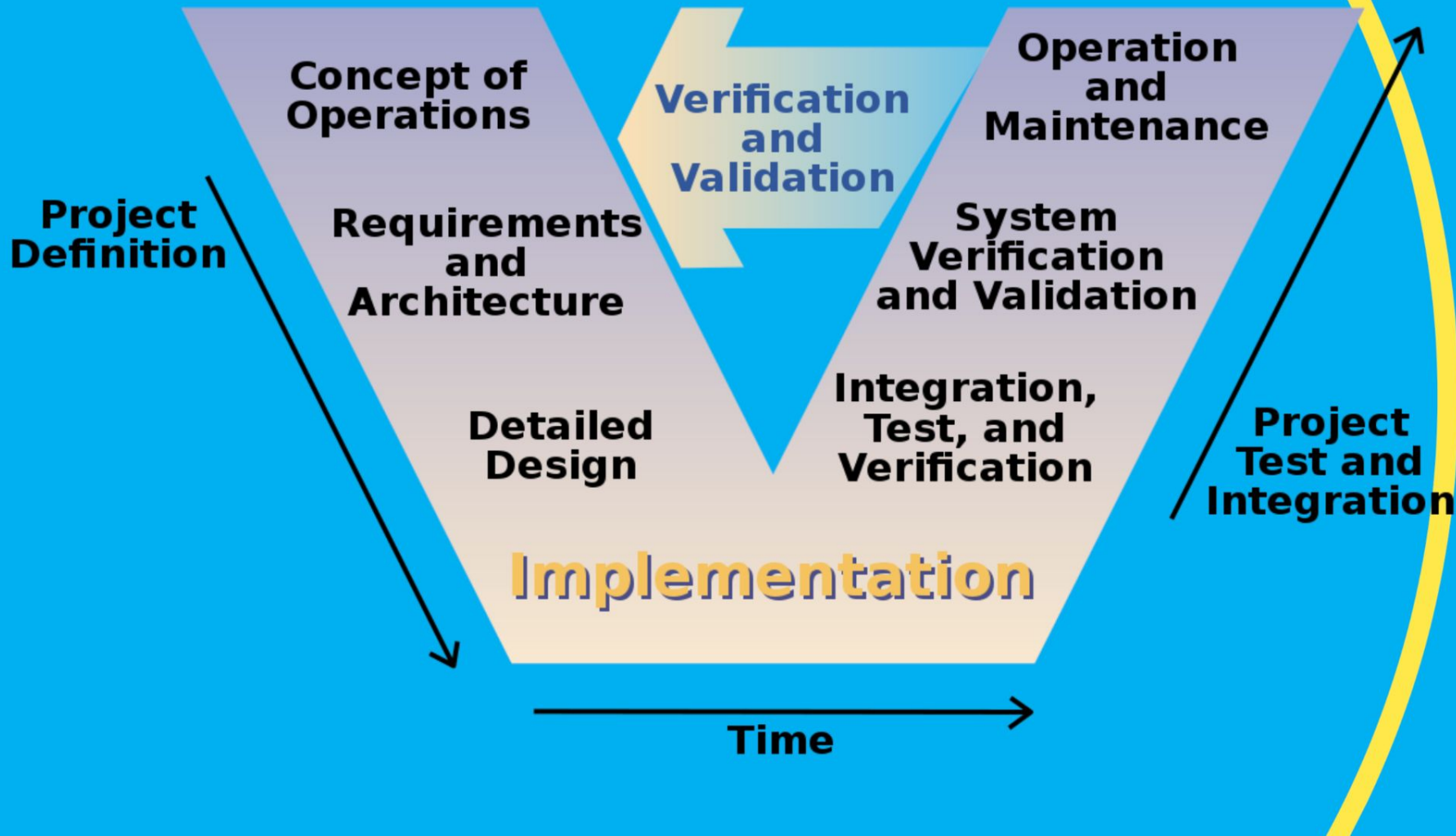
- Program package structure
  - Bean
  - Client
  - Dao
  - Exceptions
  - Services
  - Utils





# Engineering Practices

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DEMO





# Challenges and Learnings

## CHALLENGES:

- Identifying beans from the problem statement.
- Database connectivity issues due to driver version mismatches.
- Database designing and generation along with the relationships between the tables.
- Error and exception handling

## LEARNINGS:

- Acquired good experience with Git version control and collaboration as a team.
- Got a proper understanding on good coding practices and project structuring.

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**THANK YOU**

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