
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



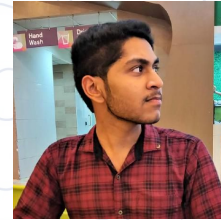
Aditya Gupta



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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



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

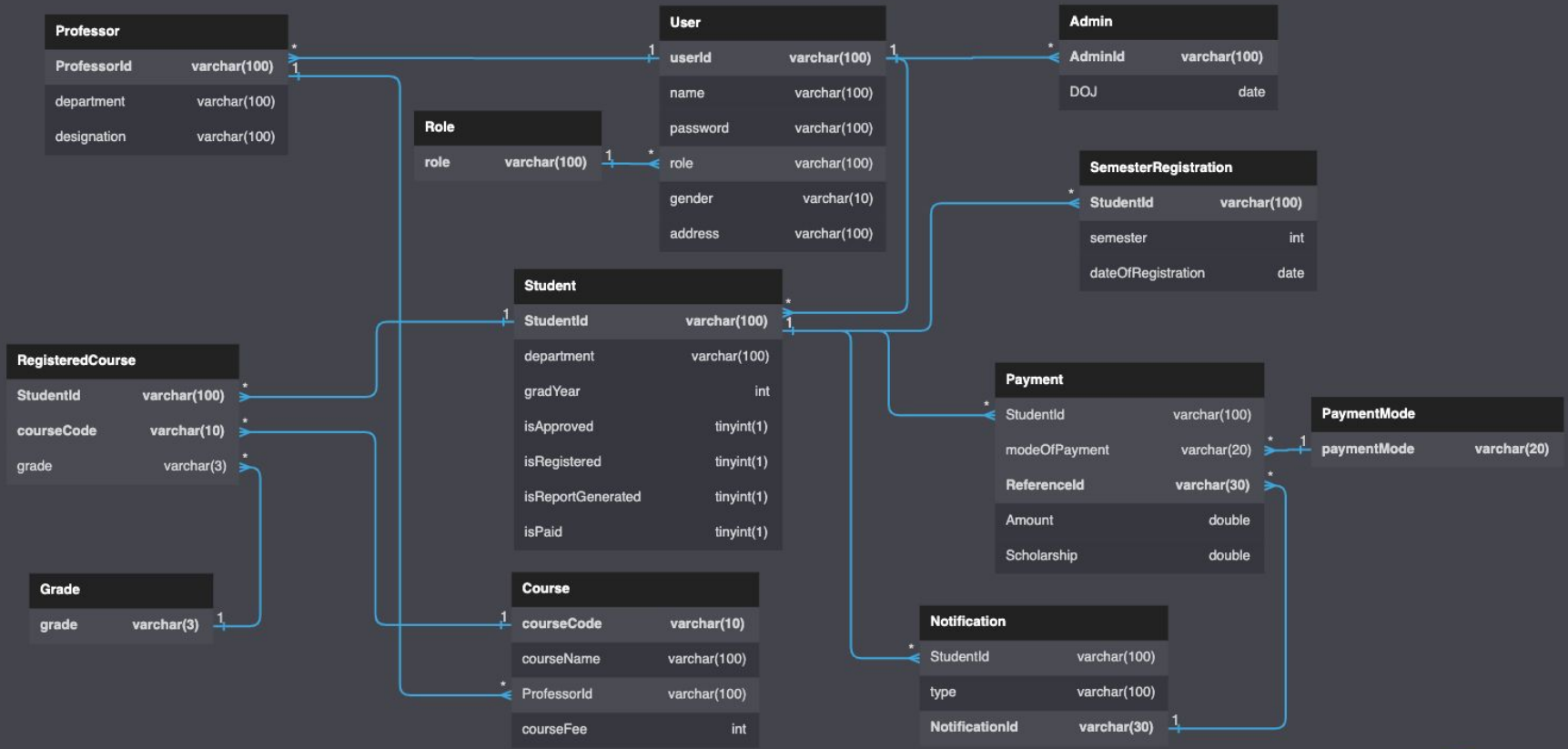
- Incremental stage-wise development of the project:
 - Beans and Service separation
 - Clients with role-specific menus
 - JDBC connection and DAO
 - Code refactoring
 - Utils for reuse
 - Validators
 - Exceptions
 - Modern practices
 - Converted the project to REST API using Dropwizard

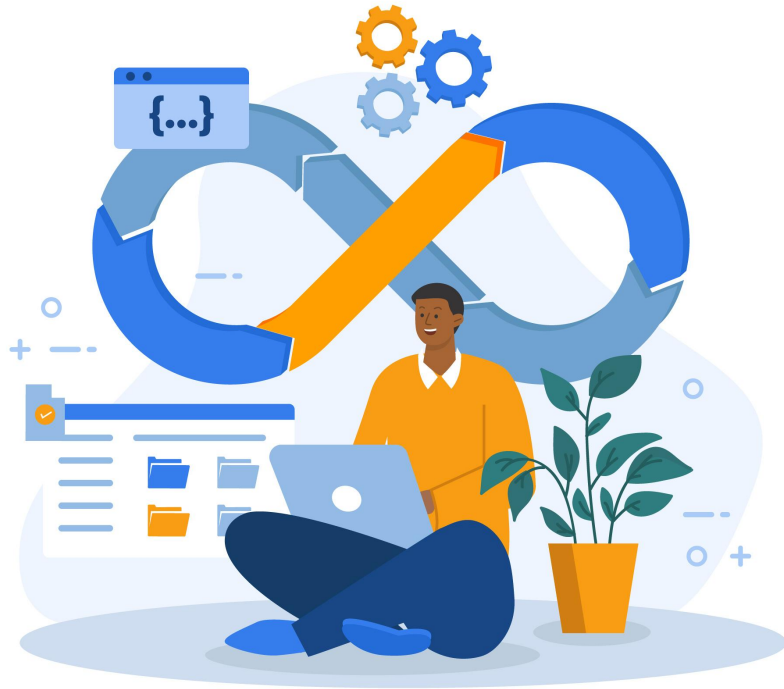




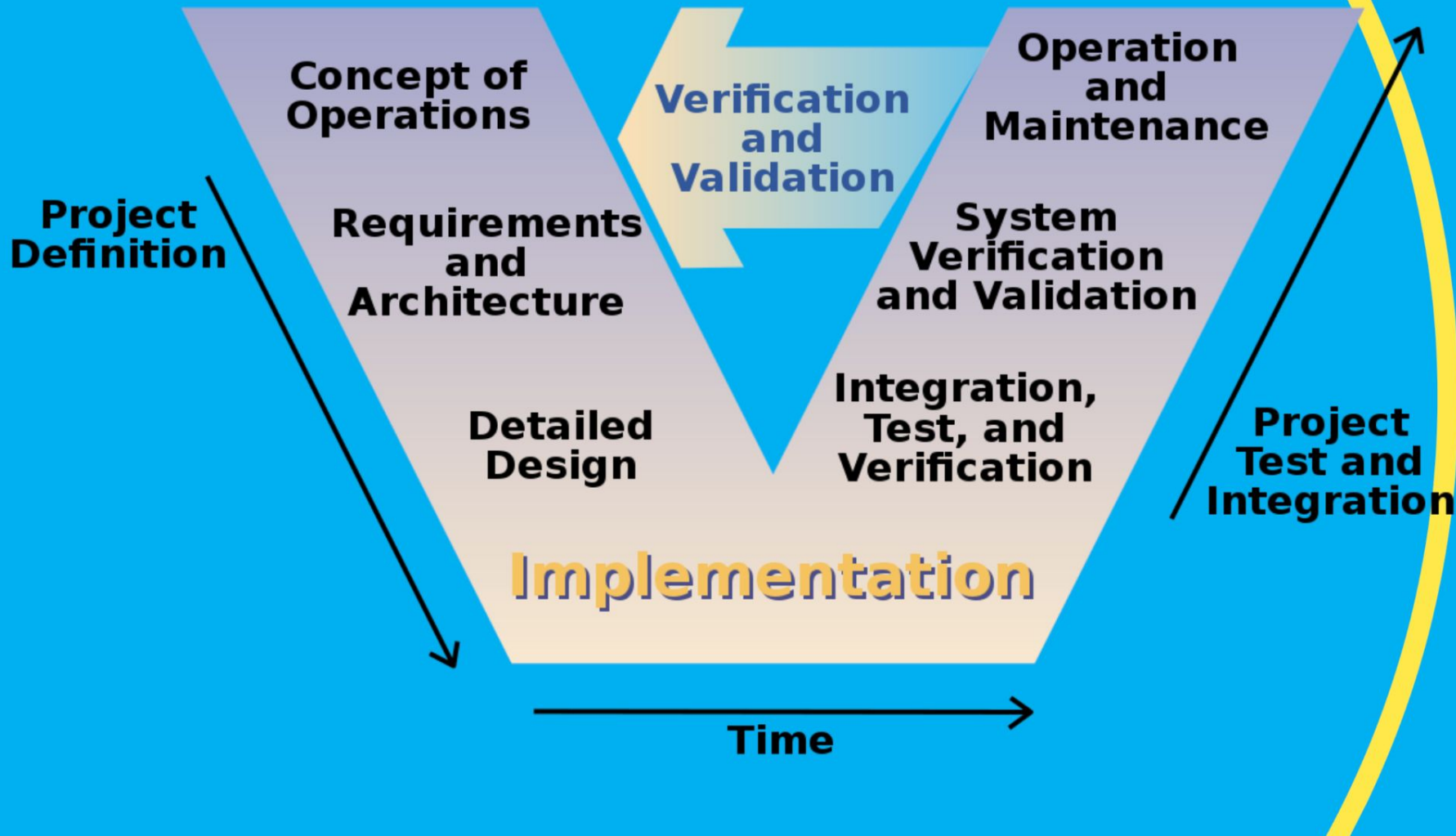
Development

- Program structure:
 -  CRS-Flipkart-GroupF-Documentation
 -  CRS-Flipkart-GroupF-POS
 -  CRS-Flipkart-GroupF-REST-DropWizard
 -  CRS-Sprint-Goal-UML





Engineering Practices





DEMO



Challenges

CHALLENGES:

- Setting up environment
- 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

LEARNINGS:

- Acquired good experience with Git version control and collaboration as a team.
- Got a proper understanding on good coding practices and project structuring.
- Learned about database integration
- RESTful api development using dropwizard

THANK YOU
