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# JEDI Bootcamp



# 3 weeks journey

- UNIX
  - File manipulation and Shortcuts
- GIT
  - Push, pull, commit
- Java
  - Basics, log4j, Collections, Exceptions
- SQL
  - JDBC, JOIN, basic SQL syntax
- REST
  - GET, POST, PUT, DELETE, jax-rs
- Dropwizard

# Milestones

## UML Artifacts

Schema and High level flow of the program

UML

## REST API

Enables program to be called by APIs

Java

## POS Project

Java code implementation with MySQL connectors

## Dropwizard

As an alternative to Jersey/REST and to enable an initialization config



# StakeHolders

→ **Trainer**

Mr. Amit Balyan

→ **Training Sponsor**

Learning & Development team, Flipkart

→ **Training Facilitator**

OrderTrainings



# Our Journey

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# AGENDA

To understand and apply all the aspects involved to a production level Software Development LifeCycle Process right from the Planning and Conception of the Flow of the Program towards its UML designs to its implementation in code finally layered as REST APIs for calls by a client in the context of a Course Registration System



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# Our Team

Sahil Shah

Nithesh

Rewant Kedia



# Course Registration System



# Engineering Practices



# Tech Stack

- Git
- SQL
- JAVA
- DROPWIZARD
- JERSEY
- JUnit and Mockito



# Development



1. Quick Debugging
  - a. Solved with Logger
2. Verifying module completion
  - a. Verified with using Interfaces
3. Ensuring Single DB connection throughout program
  - a. Singleton class
4. Ability to initialize a Config on start of program
  - a. Dropwizard

# Challenges & Learnings

# Sub-Projects

## CRS-POS Project

Java

MySQL

log4j

## CRS-REST Jersey Project

Jersey

Tomcat

jax-rs

## CRS-Dropwizard Project

Dropwizard

# Demo





# Questions

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# Scope for Improvement.



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1. Making the REST APIs stateless
2. Ensuring greater fault tolerance / Exception handling
3. Incorporating Unit testing
4. Enabling Resource lock for DB consistency purposes
5. Improving API Security
6. Session Control Management.

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# Thank you!