

# JEDI Project Presentation On FlipFit Gym Application

## GROUP - D



# The Ask – Where we started?

Beginners in software development,  
aiming to enhance our skills in UML,  
Java, MySQL, and web integration for  
real-world applications.



# Framework for 6 Days

- 6 Days plan.
- Every Day Discussion about Topics/ Technologies/ Doubt clearance.
- Everyday with SME/Trainer discussion of Project progress & Transformation based on UML & Technologies.



# Stakeholders

## 1. Sponsors

Flipkart

## 1. SME's

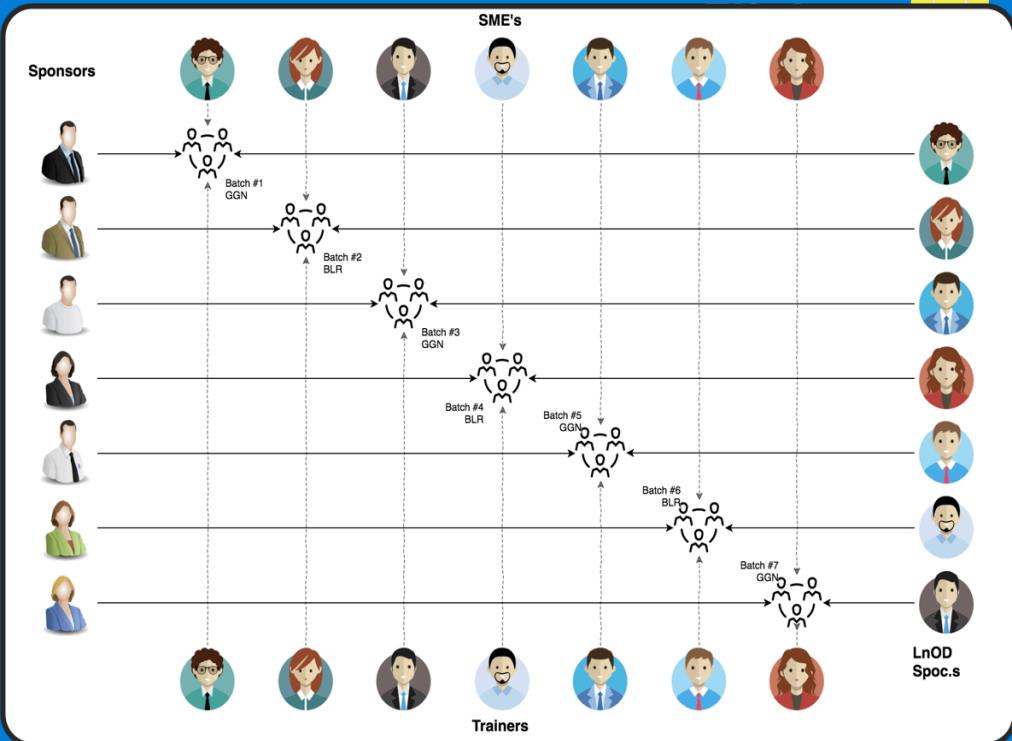
Amit Balyan

## 1. Other HRs and Experts

Ankur Sinha

Raksha Dubey

Anushka Khanna



# Agenda

01 Our Journey

02 Our Team

03 Project Goals

04 Engineering Practices

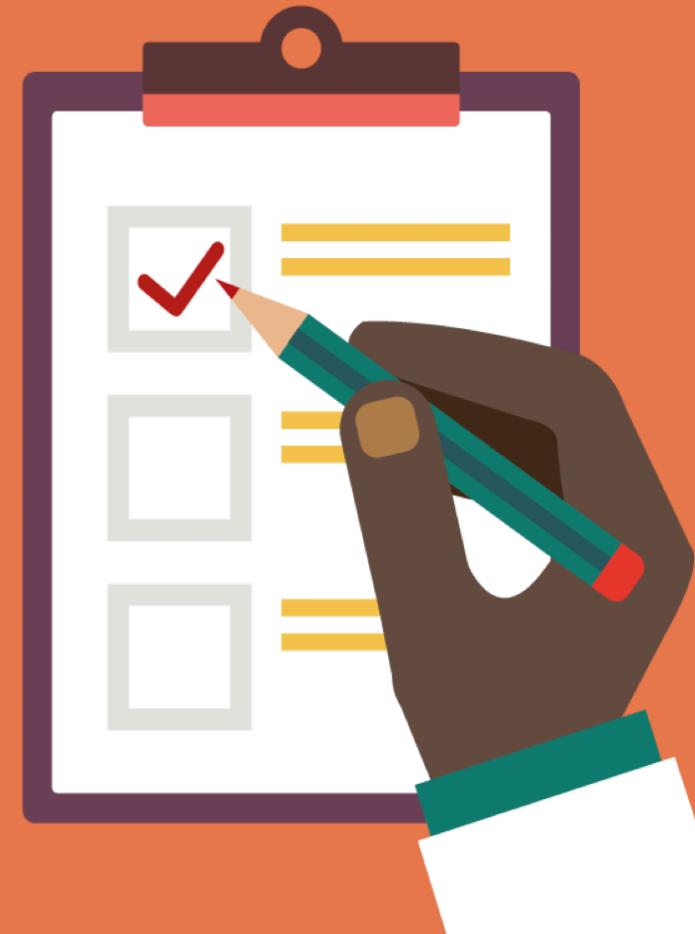
05 Tech Stack

06 Development

07 Challenges & Learnings

08 Demo

09 Questions



# Our Team

Abhik Maji

Aditi Desai

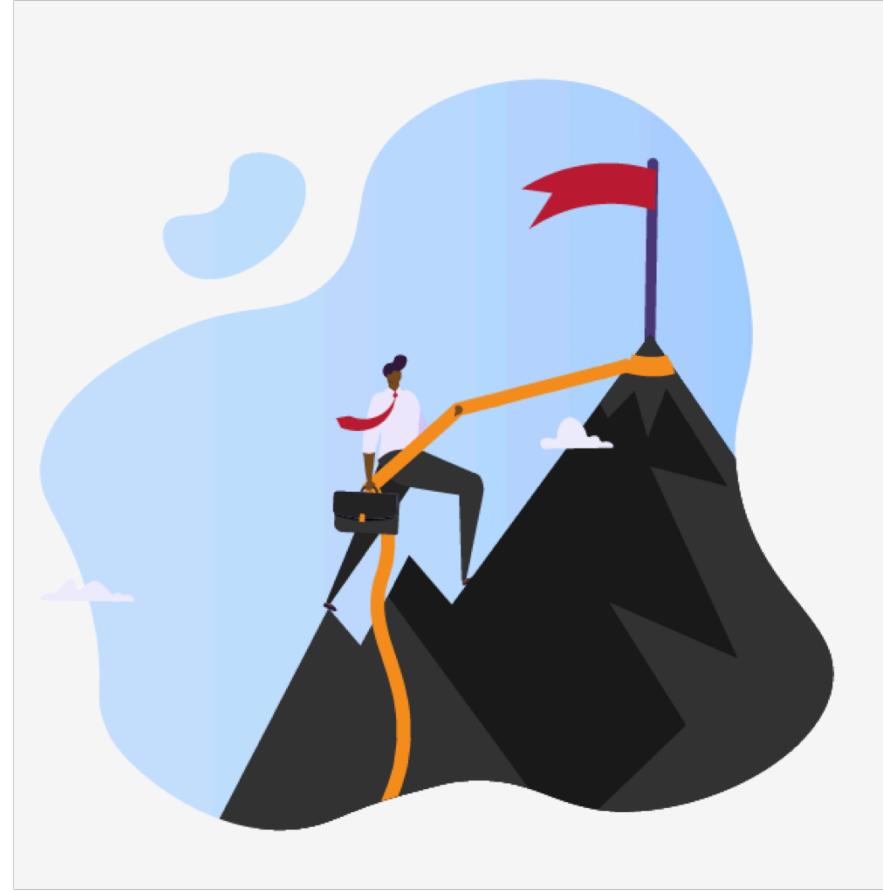
Anurag Deo

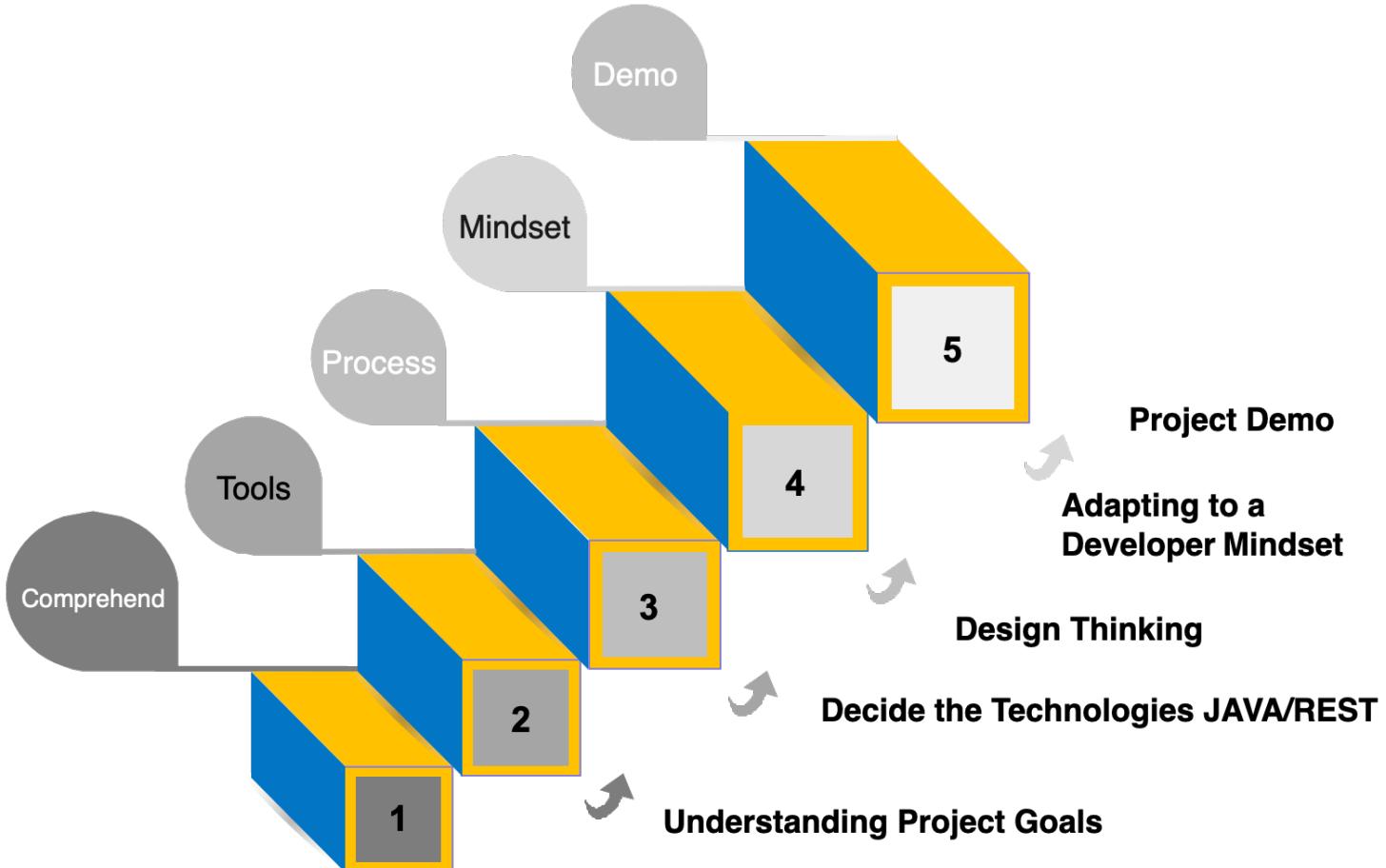
Deepshikha

Perumall Pardhiv

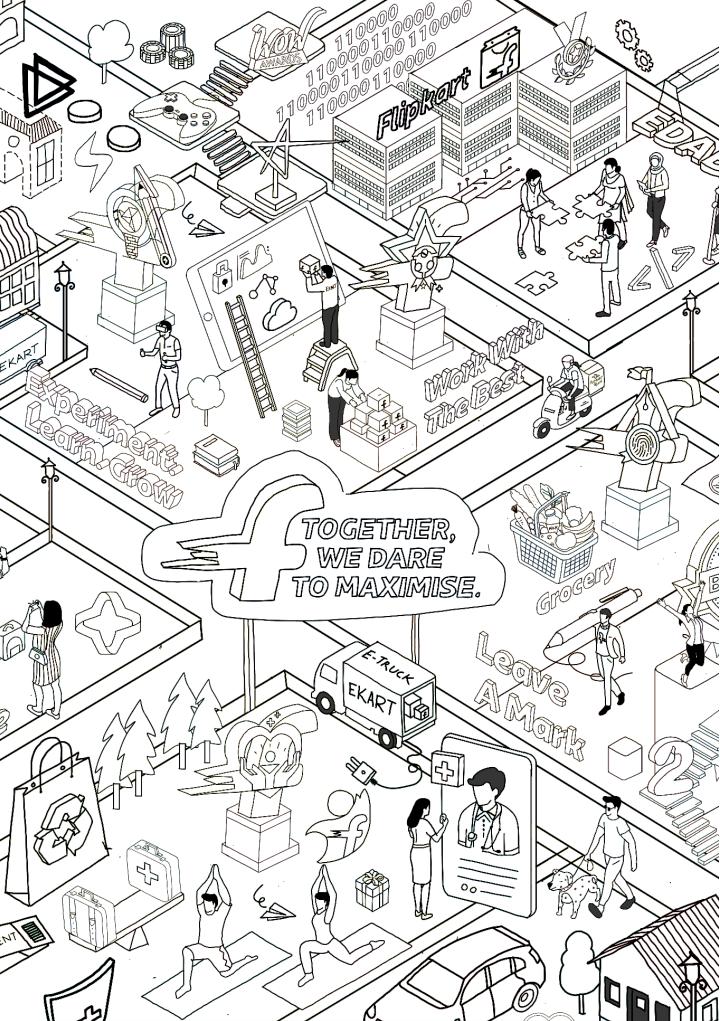


# Our Journey





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# Project Goals

To create a robust FlipFit Gym Management System using full-stack development tools, providing both agents and customers with an intuitive platform to efficiently manage and access gym services and products. The FlipFit application allows users to explore available gym centers in their city, enabling them to select a suitable center and book a preferred slot based on real-time availability.

# Tech Stacks



## Backend

Core Language



Framework



## Data

SQL Database



Database

## Tools

API Client



SCM



# Our Approach



- Discussion on each member's previous skills and training.
- Overview of the project, tech stack, and software installation.
- Daily breakdown of project components and their roles.
- Creation of Use Case, Class, and Activity Diagrams.
- Implementation of changes based on evolving requirements.
- Regular progress discussions with SME/Trainer on UML and technology updates.

# Development



- Gym owners from various centers can register their gyms on the app to efficiently manage their businesses.
- Users can browse available slots at different gyms based on their time, location, and budget.
- The admin ensures the credibility of gyms by verifying and approving gym owners' details.
- Users have the option to cancel bookings and choose a different slot if they miss their initial one.
- All data related to gyms and bookings is stored in databases, ensuring no reliance on in-memory storage.
- When a gym reaches full capacity, a waiting list is created, and waitlisted users will be notified when a slot becomes available.



# Features of FlipFit Application



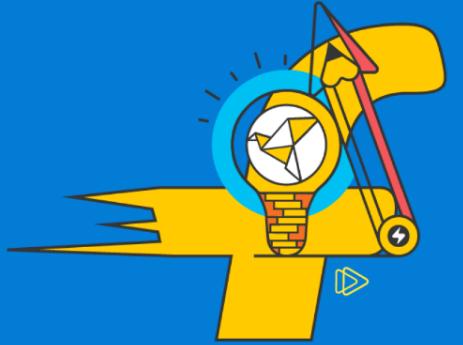
FlipFit aims to address the following key objectives:

- Simplified Booking Process
- Efficient Resource Management
- Stronger Partner Engagement
- Improved Customer Satisfaction

# Project Structure



- **Beans:** Initialization of classes with setters and getters, used for schema and row mapping in JDBC.
- **Client:** Frontend logic and controller code added to run via the command line terminal, serving as the entry point for the FlipFit application.
- **Business:** Implementation of the core logic for FlipFit features in the backend.
- **DAO:** Handles the storage and retrieval of data from the MySQL database using SQL queries.
- **Exceptions:** Custom exceptions created to manage missing data or invalid credentials.
- **Constants:** Stores MySQL queries as constants for use in the DAO layer, enhancing code reusability.
- **Sql schema:** Contains the database table schema for structuring the data.



**Experiment.  
Learn. Grow**

# Challenges Faced

- Getting adapted to the new tech stacks.
- Installation of new softwares and adapting to work with them.
- Integration of different modules of project.
- Coordination and Communication among teammates while working remotely through version control system.
- Testing and debugging of the code according to changes in schema of database.



# Learnings

- Team Collaboration and Effective Communication.
- Tech Stack: Git, Github, Java, MySQL.
- Developing a fully working application along with scope of scalability at every stage.
- Handling the coupling and interdependence of modules while working of a large level project.
- Industrial Development Practices and working under deadline.



***Experiment.  
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# Learnings

- Continuous change in code and its deployment to GitHub using git commands.
- Use of recent version of JAVA and APIs like Date and Time and Stream API for enhancing the efficiency of application.
- Learnt the need of use case diagrams, class diagrams, activity diagram before starting the project.
- Understood the need of proper commenting of code and documentation while working on a project that is being completed in stages.

# Demo





# Q&A



Thank you!!