

Flipkart

Flipfit Application



JEDI Bootcamp – Group B

Our Team





RISHIKA



SURYAKANT



PRATHAMESH



BHANU



DEEPAK



HARSH



TEJESH

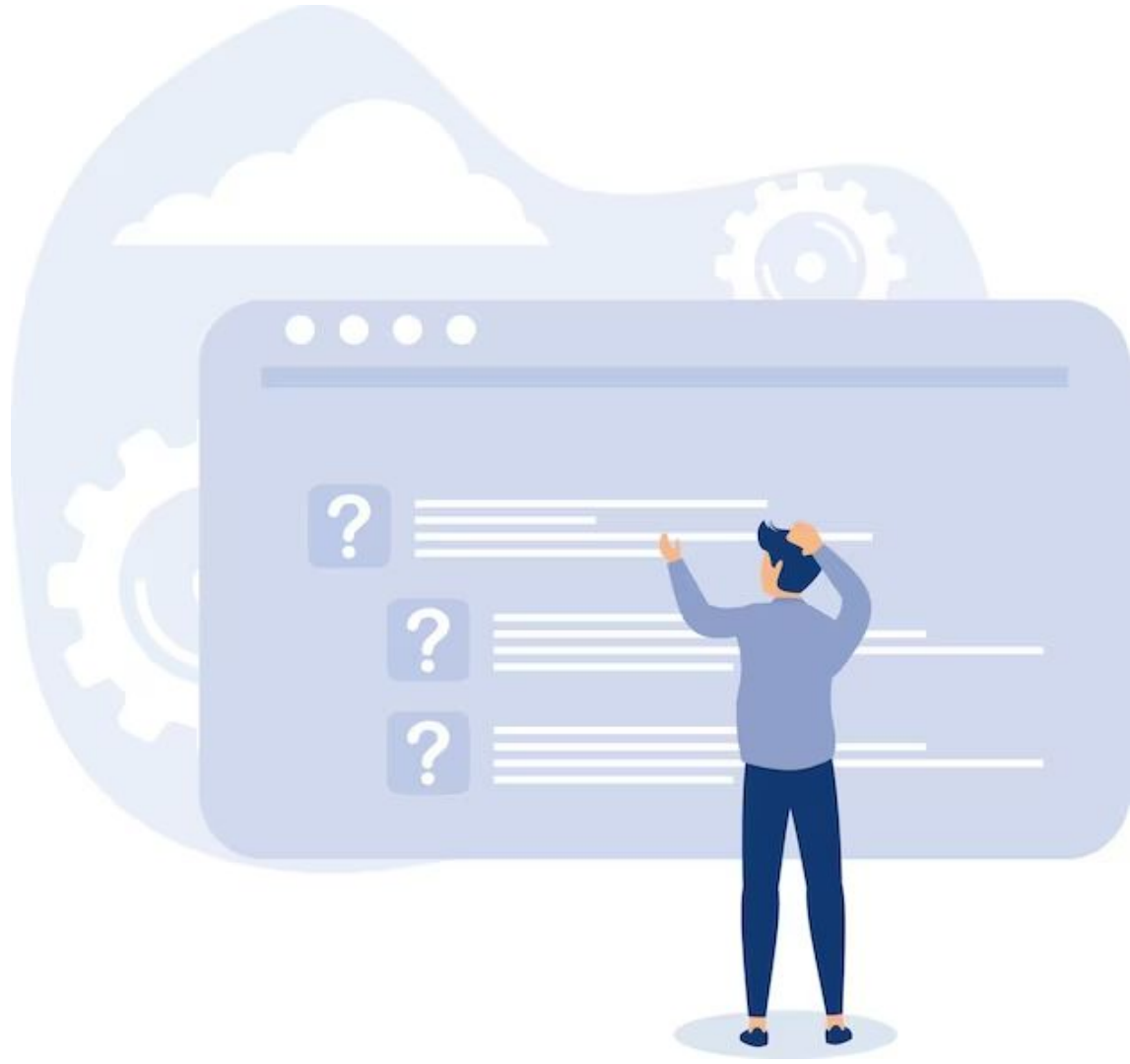


SAKSHI

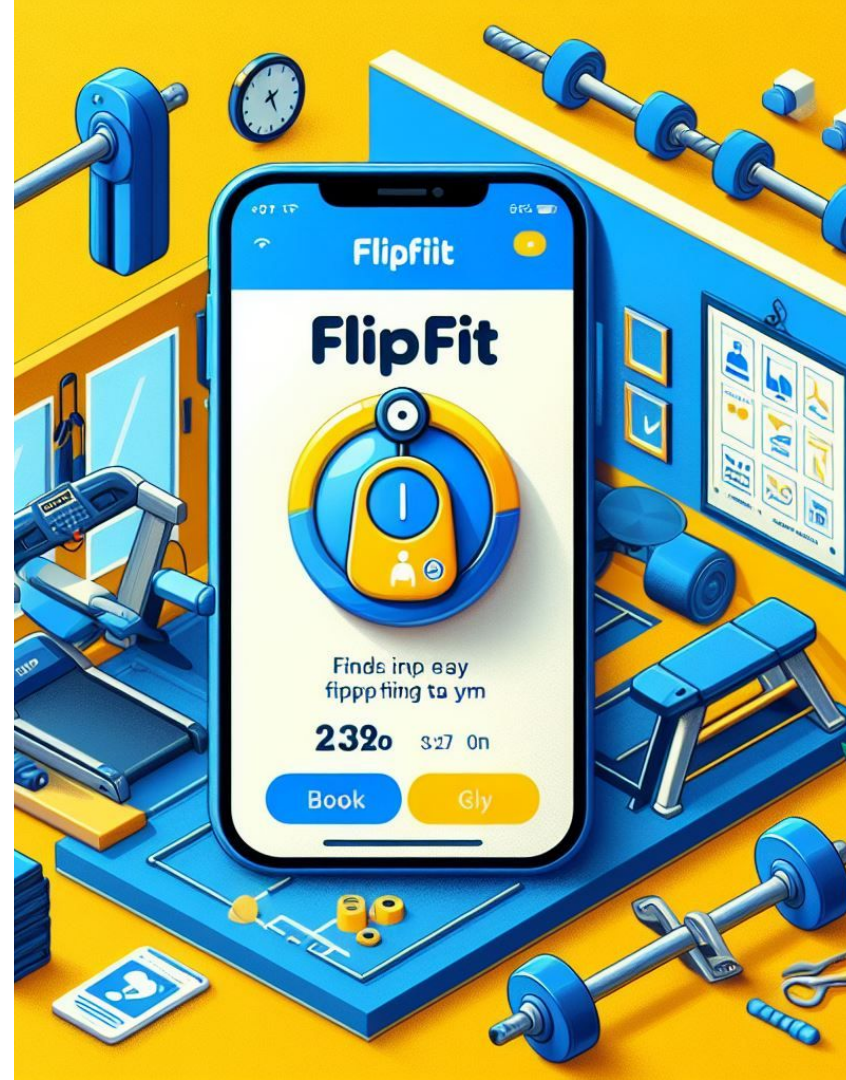


REHMAN

Problem Statement



- ❖ **FlipFit** is a new fitness venture by Flipkart partnering with Bangalore gyms.
- ❖ Multiple gym centers in Bangalore with fixed-hour slots.
- ❖ User-friendly operations like Register, view availability, and book slots.
- ❖ Backend system having database management and API functionality.



Stakeholders

Sponsor

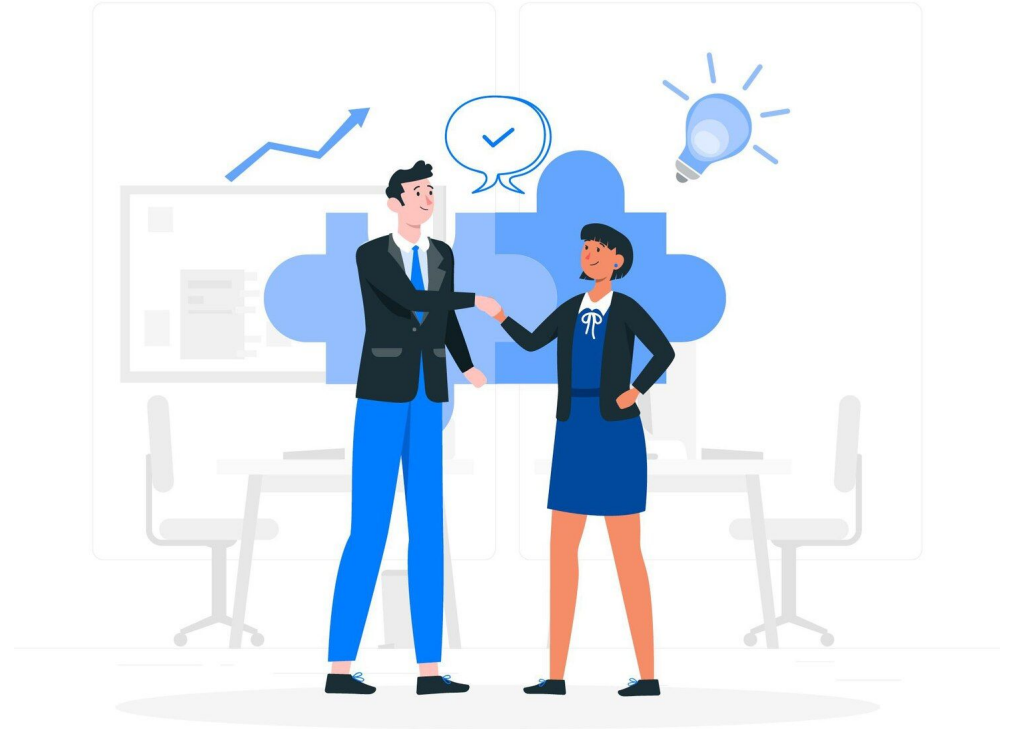
Flipkart

SME

Amit Balyan

Trainers

Sharath Ramesha,
Bhavya S Gowda



Framework for 6 Days

Day 1 – Requirement Analysis and Use Case, Activity and Class Diagram

Day 2 – Refined all use cases and GIT

Day 3 – Java code for POS application

Day 4 – Services and DAO Implementation

Day 5 – Database and Exception Handling

Day 6 – REST API using Dropwizard

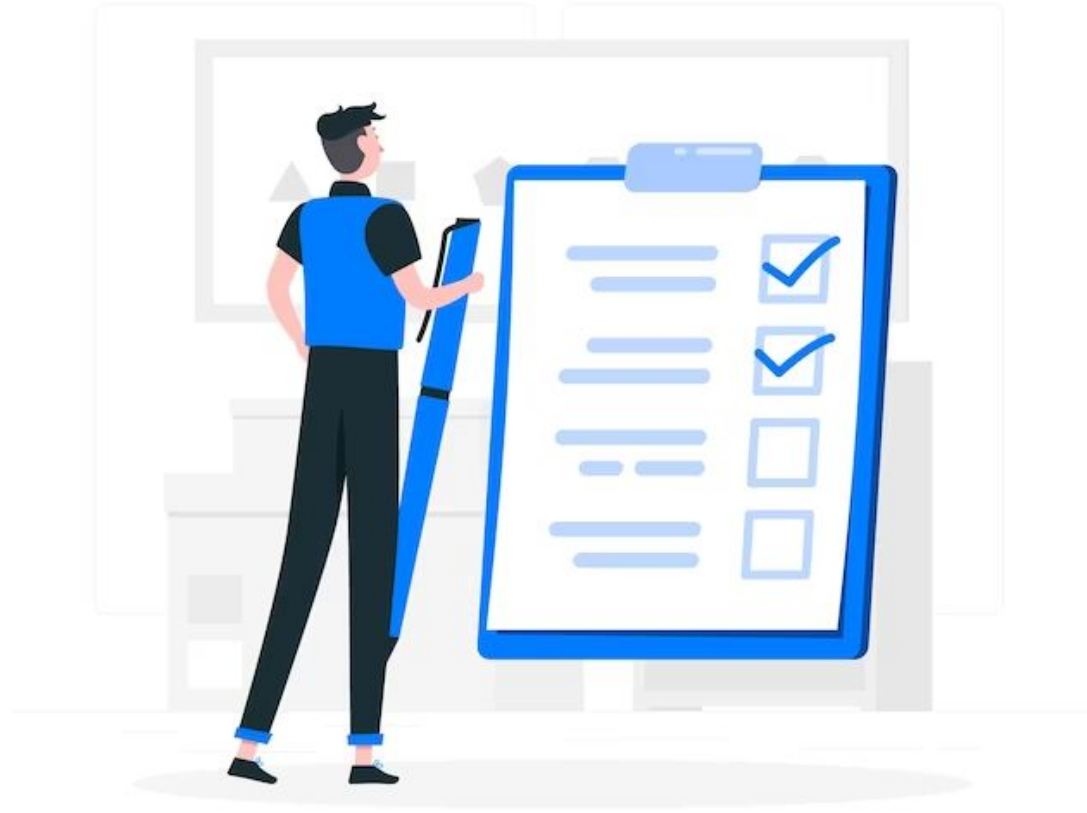


6 DAYS OF TRAINING + PROJECT DEMO

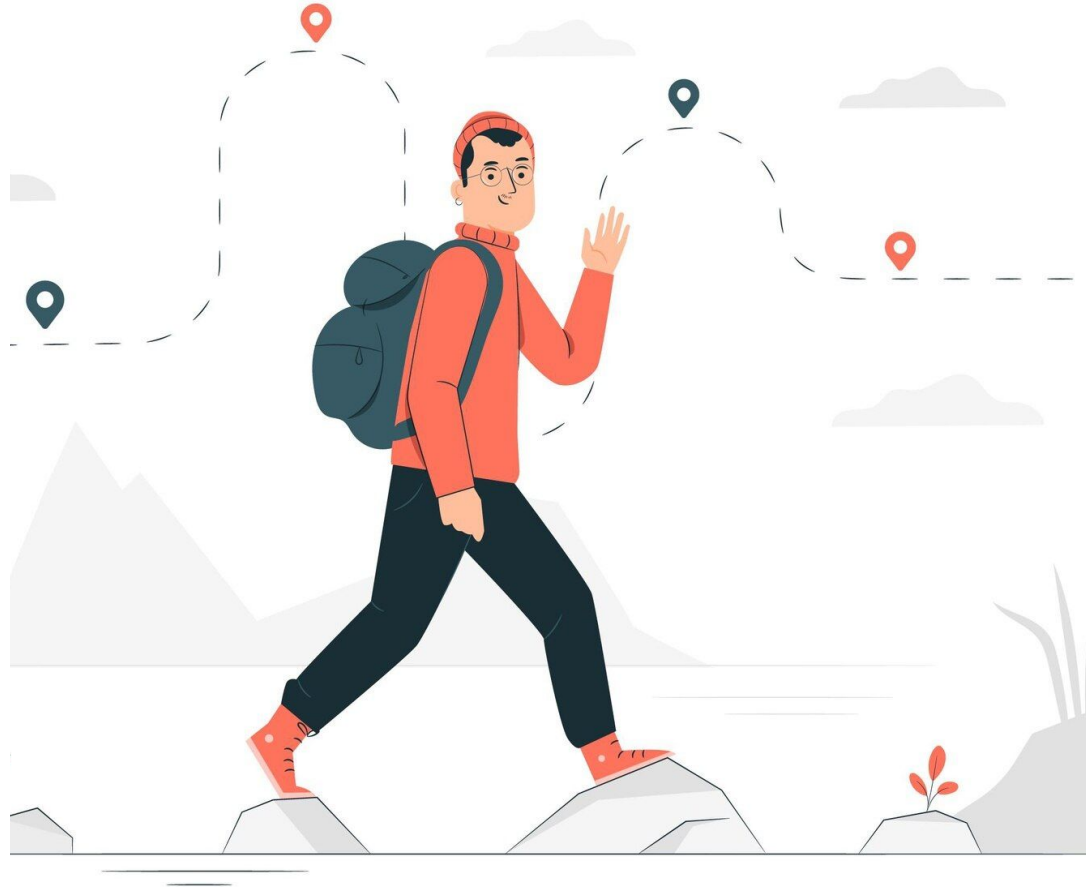


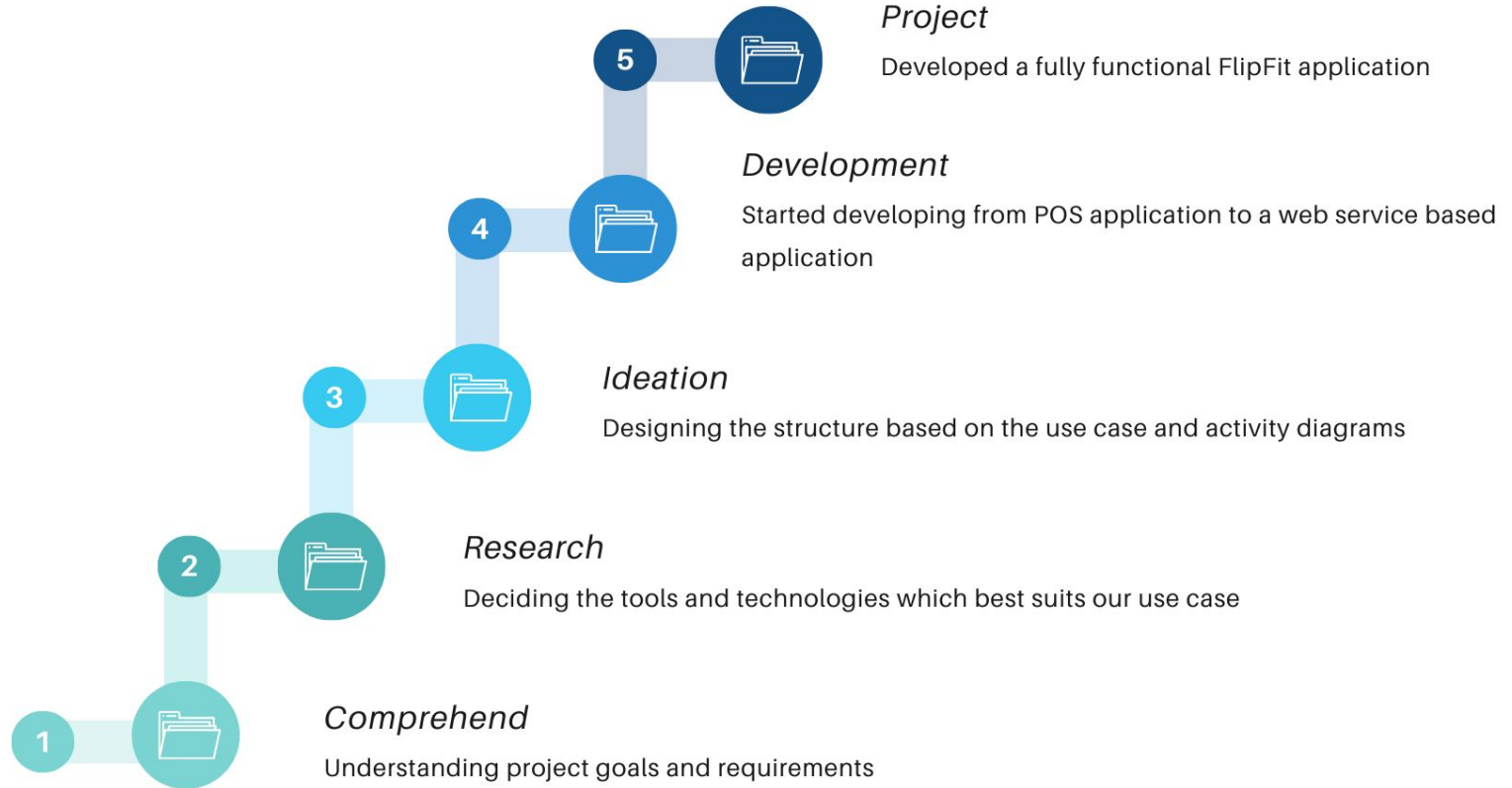
Agenda

- 01** Our Journey
- 02** Team Structure
- 03** Project Goals
- 04** Engineering Practices
- 05** Tech Stack
- 06** Development
- 07** Challenges & Learnings
- 08** Demo
- 09** Questions



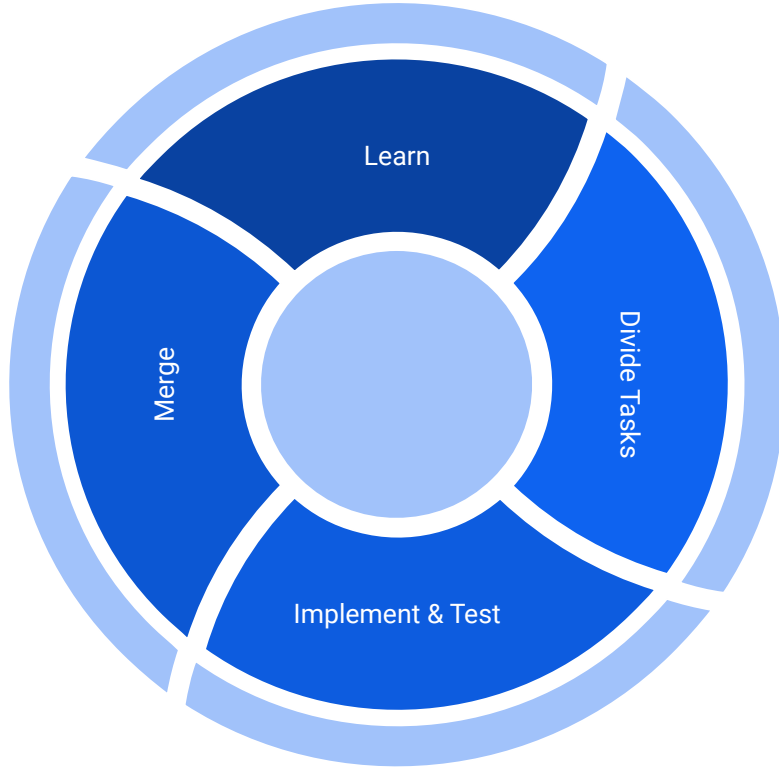
Our Journey





Team Structure





- ❖ Learn a new tool or technique
- ❖ Lead and sub lead divide tasks in subteams of 2
- ❖ Each subteam finish their task and deliver a feature
- ❖ Merge all functionalities

Project Goals



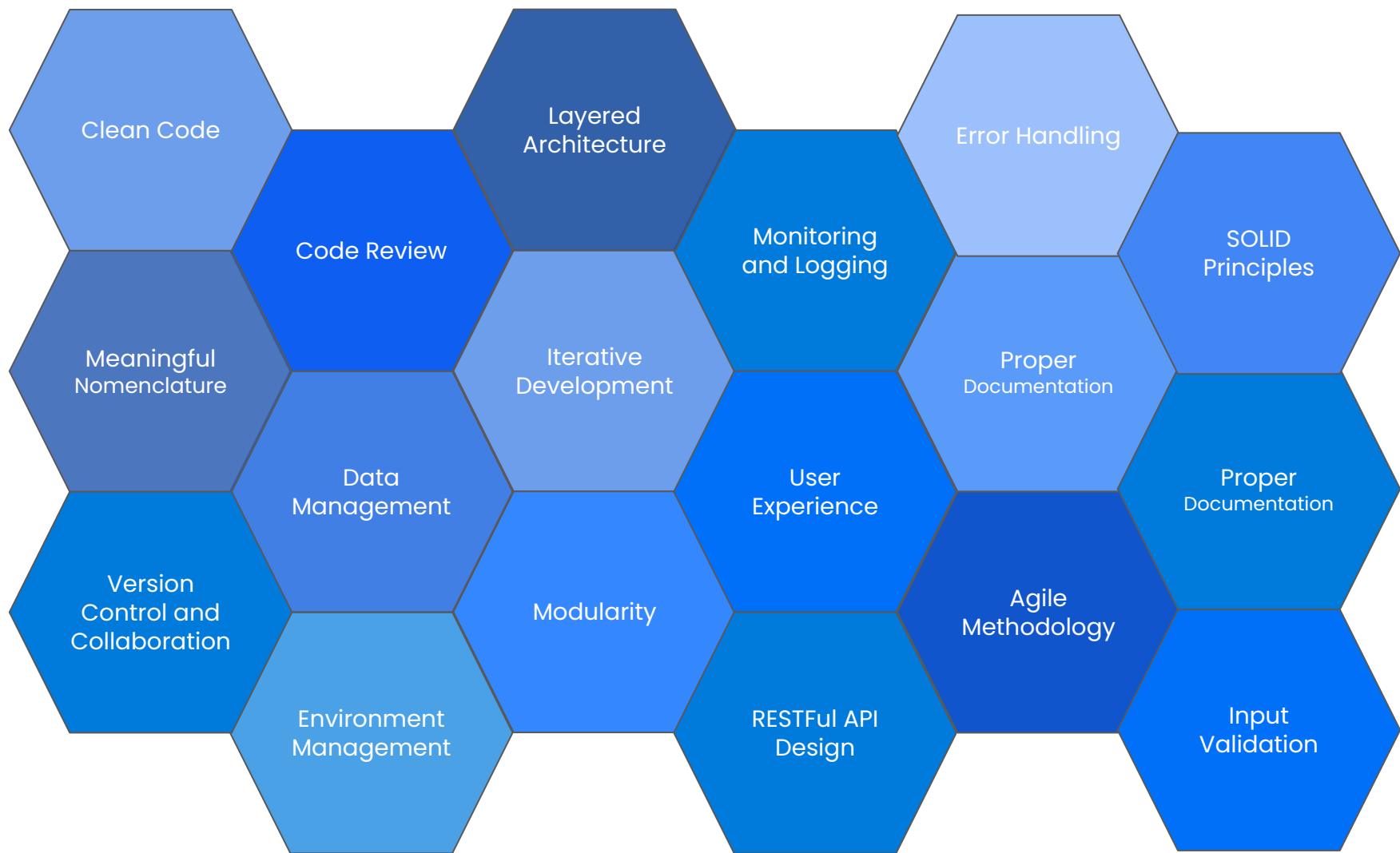
Our Vision

To create a **Gym Management Application** using widely used development tools and technologies, where an owner can manage all their gyms and a customer can book gym slots according to their location and timing preferences.

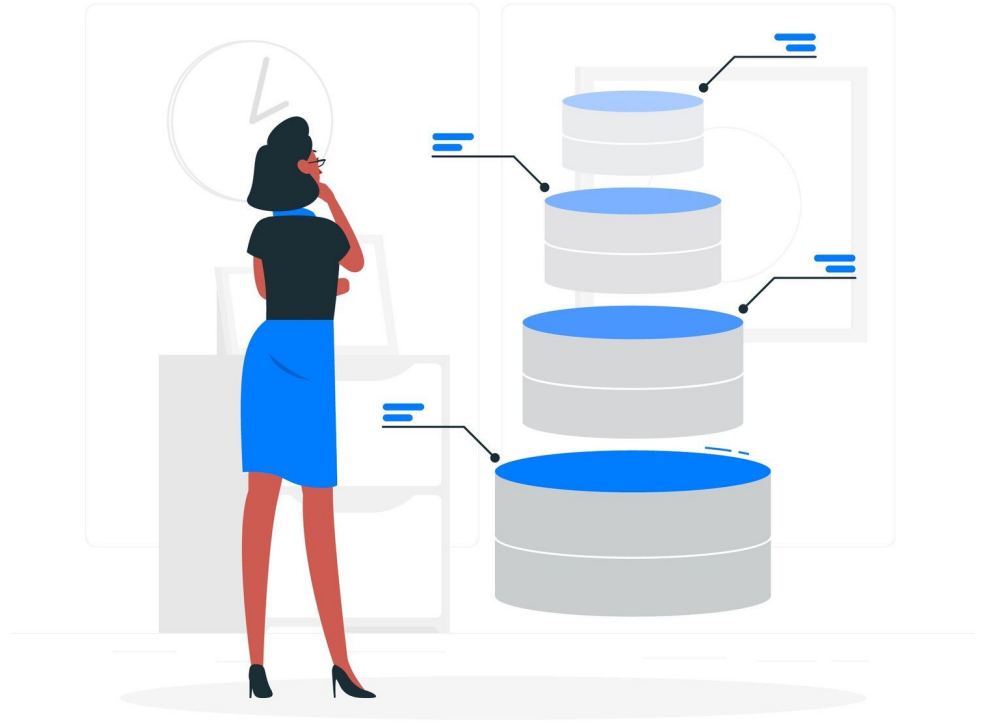


Engineering Practices











Tech Stack





Backend

- Language: Java 
- Framework: Dropwizard  DROPWIZARD
- API: JAX-RS  JAX-RS
- Database: MySQL 
- Build Tool: Maven 
- UML Diagrams: Lucid Chart 

Version Control

- Git & Repository: GitHub 

Development Environment

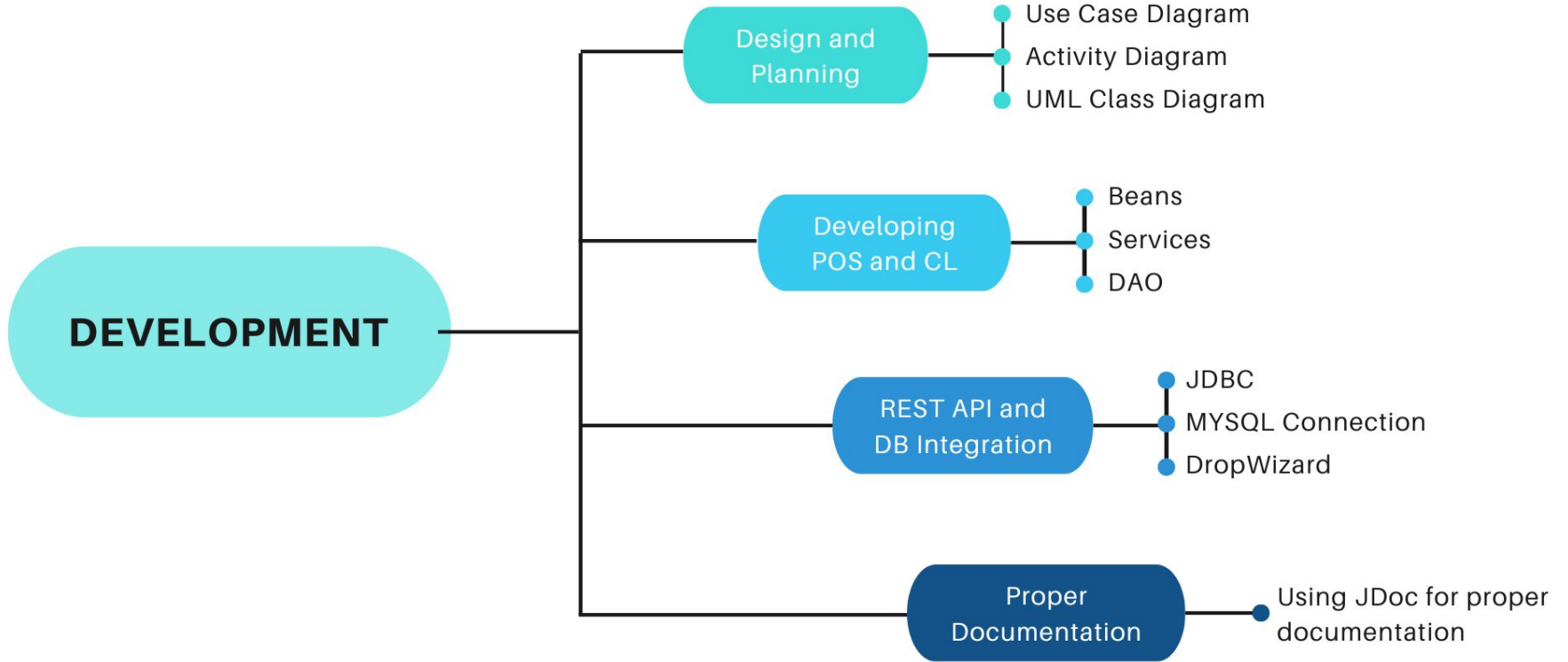
- IDE: IntelliJ IDEA/ STS 
- API Testing: Postman  POSTMAN

Documentation

- JavaDocs  JavaDoc

Development





Challenges & Learnings





INTEGRATION COMPLEXITY

- **Challenge:** Coordinating the integration of multiple microservices was complex. Integrating multiple technologies posed challenges in ensuring seamless communication and compatibility.
- **Learning:** Clear communication and well-defined interfaces are crucial for seamless integration.



DATABASE MANAGEMENT

- **Challenge:** Designing and maintaining an efficient database structure posed challenges.
- **Learning:** Regular database optimization and adherence to normalization principles are essential for performance.



COLLABORATIVE CODING

- **Challenge:** Ensuring consistency and collaboration among a team of 9 developers.
- **Learning:** Establishing coding standards, regular code reviews, and consistent use of version control are key for collaborative success.

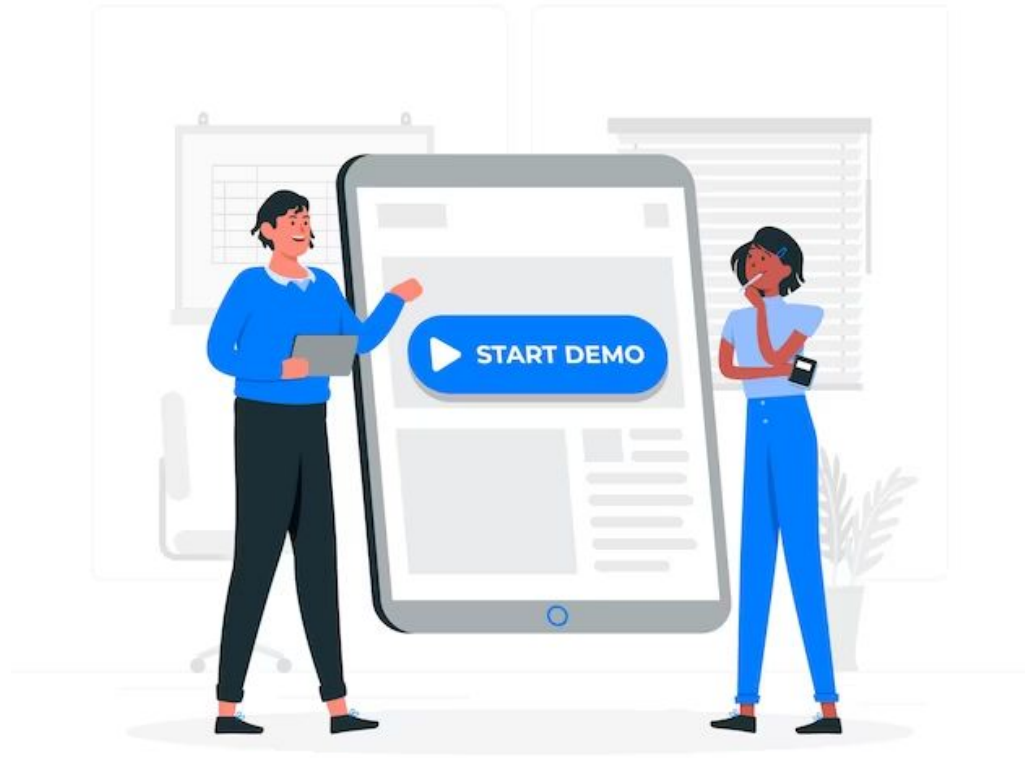


MAINTAINING CODE QUALITY

- **Challenge:** Ensuring consistent coding standards and passing static analysis.
- **Learning:** Developed skills in code review and continuous improvement to meet industry standards.

Demo

Let's Go...



Questions

Please feel free to ask any queries



