

FlipFit



Problem Statement

Build a robust backend system with an intuitive userflow for Flipkart's enterprise Gym Management application.



Framework for 1 week



```
graph LR; A[Make daily targets] --> B[Learn new technologies]; B --> C[Resolve code conflicts]; C --> D[Project Development];
```

**Make daily
targets**

**Learn new
technologies**

**Resolve
code conflicts**

**Project
Development**

Stakeholders



Flipkart



SME
Amit Balyan



Coordinators

Project Contributors

 **Ananya Sangani**

 **Aakash Amar Murthy**

 **Aariv Walia**

 **Gauri Agrawal**

 **Hari Hema Chandrika**

 **Keshav Chandak**

 **Lakshya Khandelwal**

 **P J Manasa**

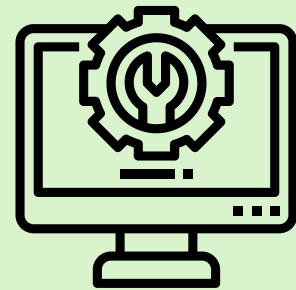
 **Sakshi Singh**

 **Samyah Khan**

Roadmap



**Understanding
project goals**



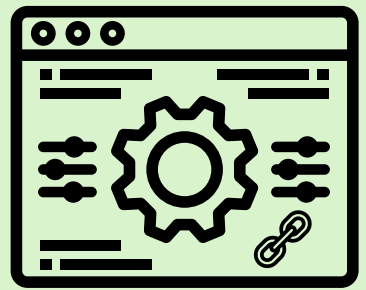
**Technology
Selection**



**Design
Thinking**



**Adapting to a
Developer
mindset**



**Project
demo**

Project Goals



**Centralized gym center
management**



**Strict overbooking
prevention**



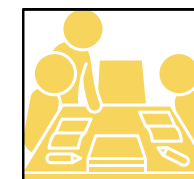
**Time-slot based
scheduling**



**Booking cancellation
and waitlist handling**

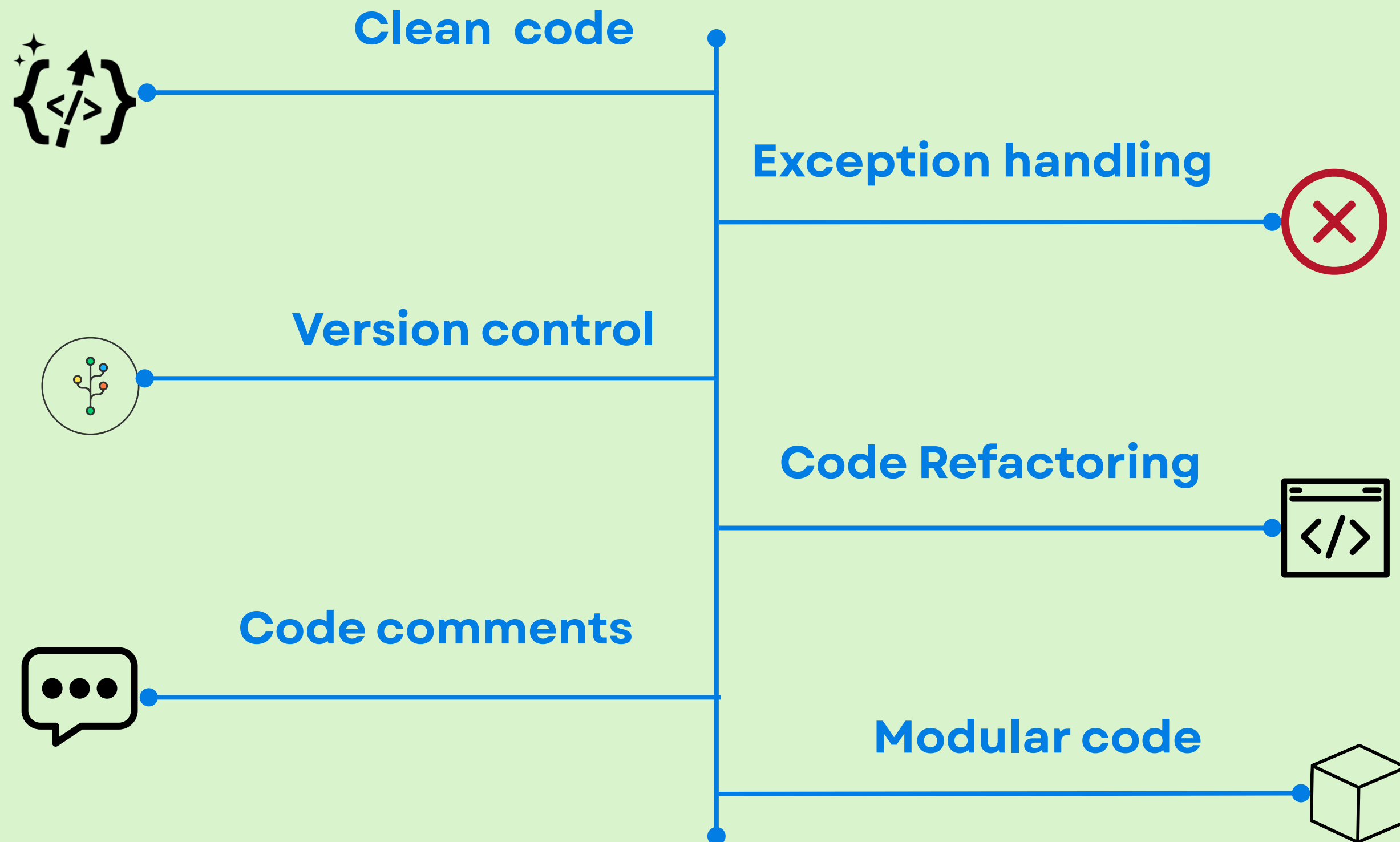


**Conflict-free user
bookings**



**Scalable enterprise-
ready design**

Engineering Practices



Tech Stack



Java



Spring Tools for eclipse



MySQL



Maven



GitHub

Execution Strategy

1

Designed system workflows using UML diagrams

2

Structured the project using layered packages (bean, business, client)

3

Implemented core booking logic using in-memory processing and collections

4

Integrated persistence and stability layers (dao, utils, constants, exception)

5

Enhanced code using modern Java features & comprehensive documentation

Key Challenges

1 Team Collaboration

3 Tight deadlines

2 New Technologies

4 Unexpected bugs and issues

DEMO

GITHUB REPO

Questions ?

Thank You