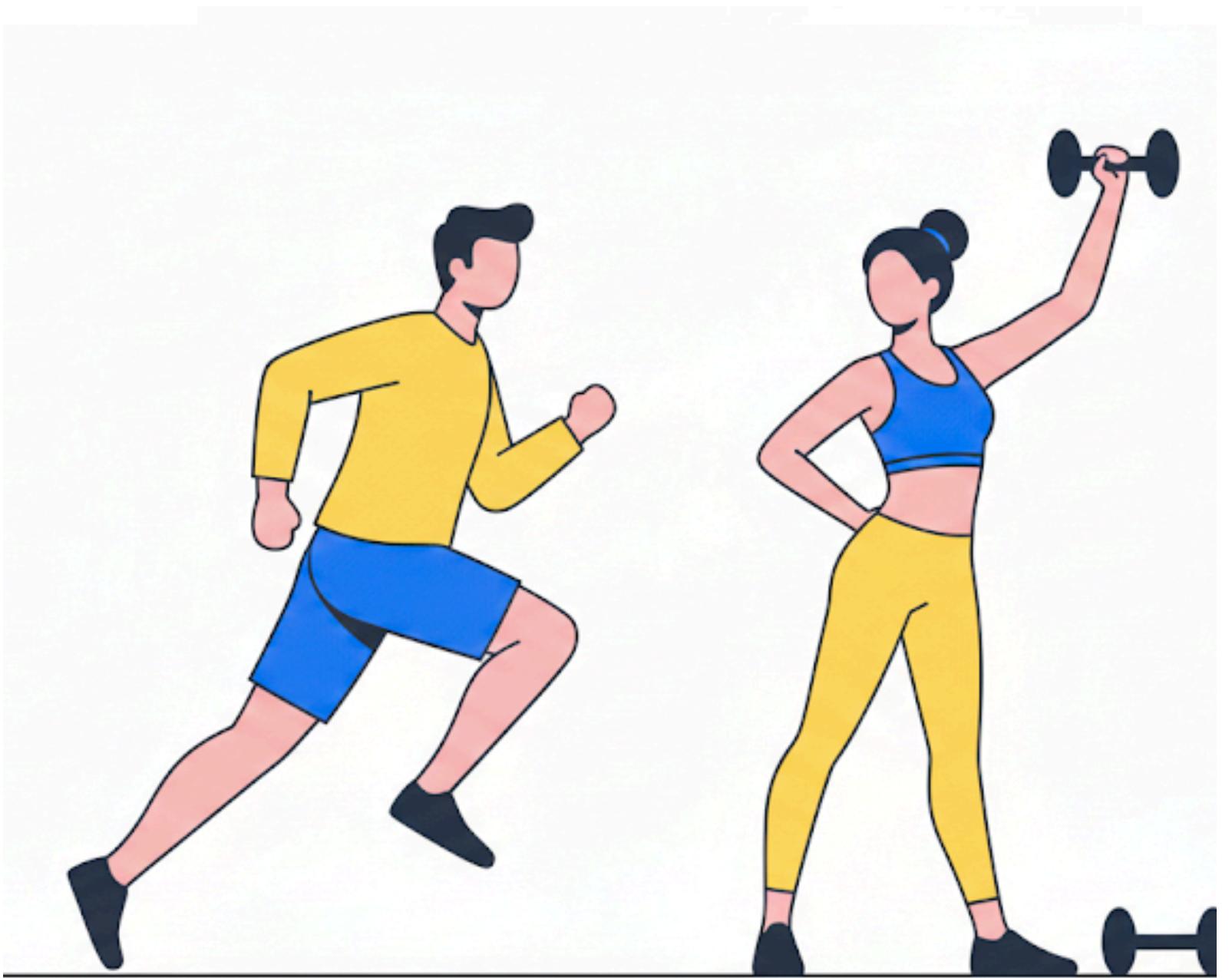


# FlipFit

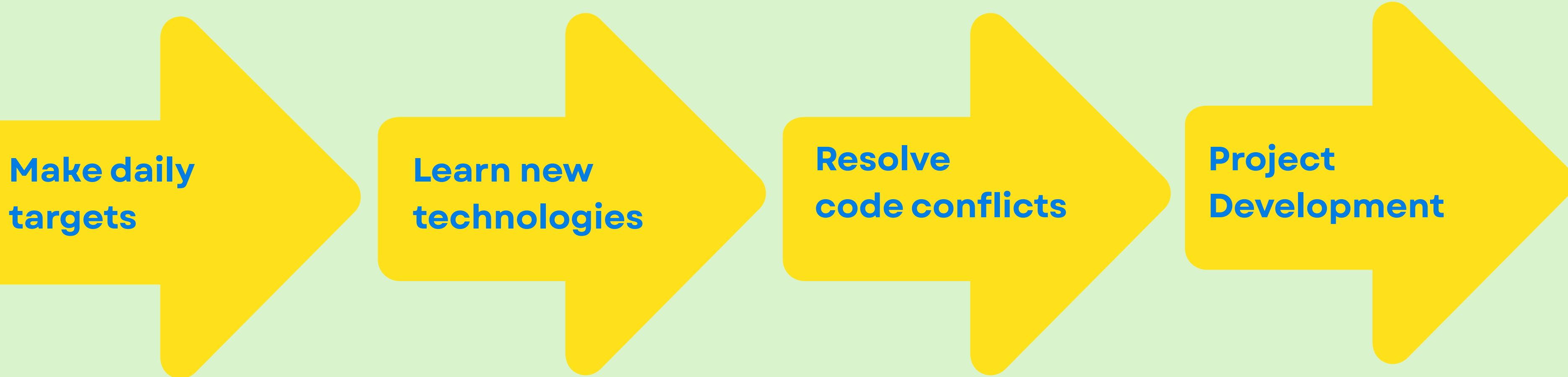


# Problem Statement

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



# Framework for 1 week



# Stakeholders



**Flipkart**



**SME**  
**Amit Balyan**



**Coordinators**

# Project Contributors

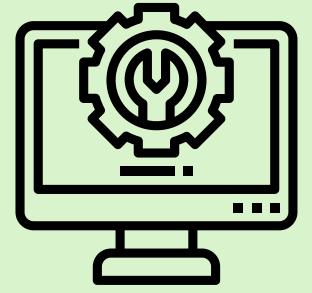
-  **Ananya Sangani**
-  **Aakash Amar Murthy**
-  **Aariv Walia**
-  **Gauri Agrawal**
-  **Hari Hema Chandrika**

-  **Keshav Chandak**
-  **Lakshya Khandelwal**
-  **P J Manasa**
-  **Sakshi Singh**
-  **Samyah Khan**

# Roadmap



Understanding  
project goals



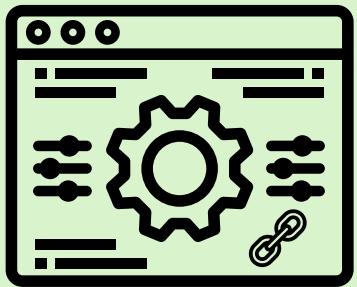
Technology  
Selection



Design  
Thinking



Adapting to a  
Developer  
mindset



Project  
demo

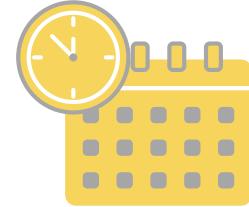
# Project Goals



**Centralized gym center management**



**Strict overbooking prevention**



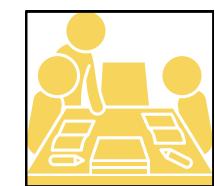
**Time-slot based scheduling**



**Booking cancellation and waitlist handling**

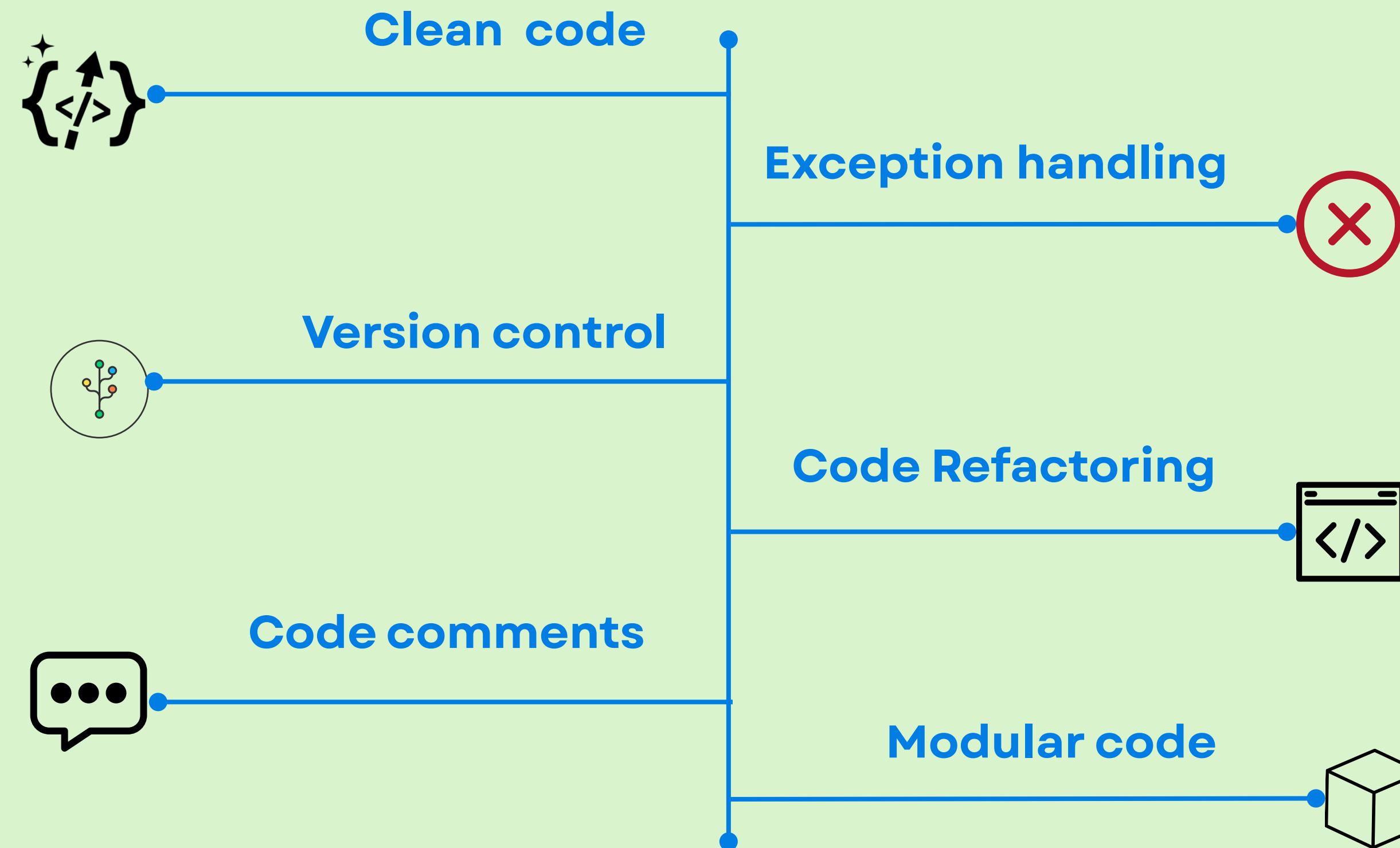


**Conflict-free user bookings**



**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

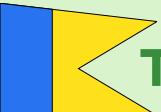
Implemented core booking logic using in-memory processing and collections

4

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

5

Enhanced code using modern Java features & comprehensive documentation



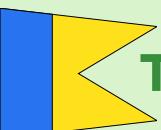
# Key Challenges

**1** Team Collaboration

**2** New Technologies

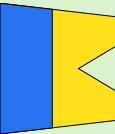
**3** Tight deadlines

**4** Unexpected bugs and issues



# DEMO

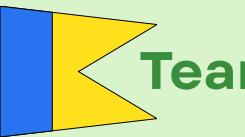
GITHUB REPO



Team Alpha

# Questions ?

# Thank You



Team Alpha