



FLIPFIT GYM APPLICATION DEVELOPMENT PROJECT

1 WEEK OF TRAINING + PROJECT DEMO



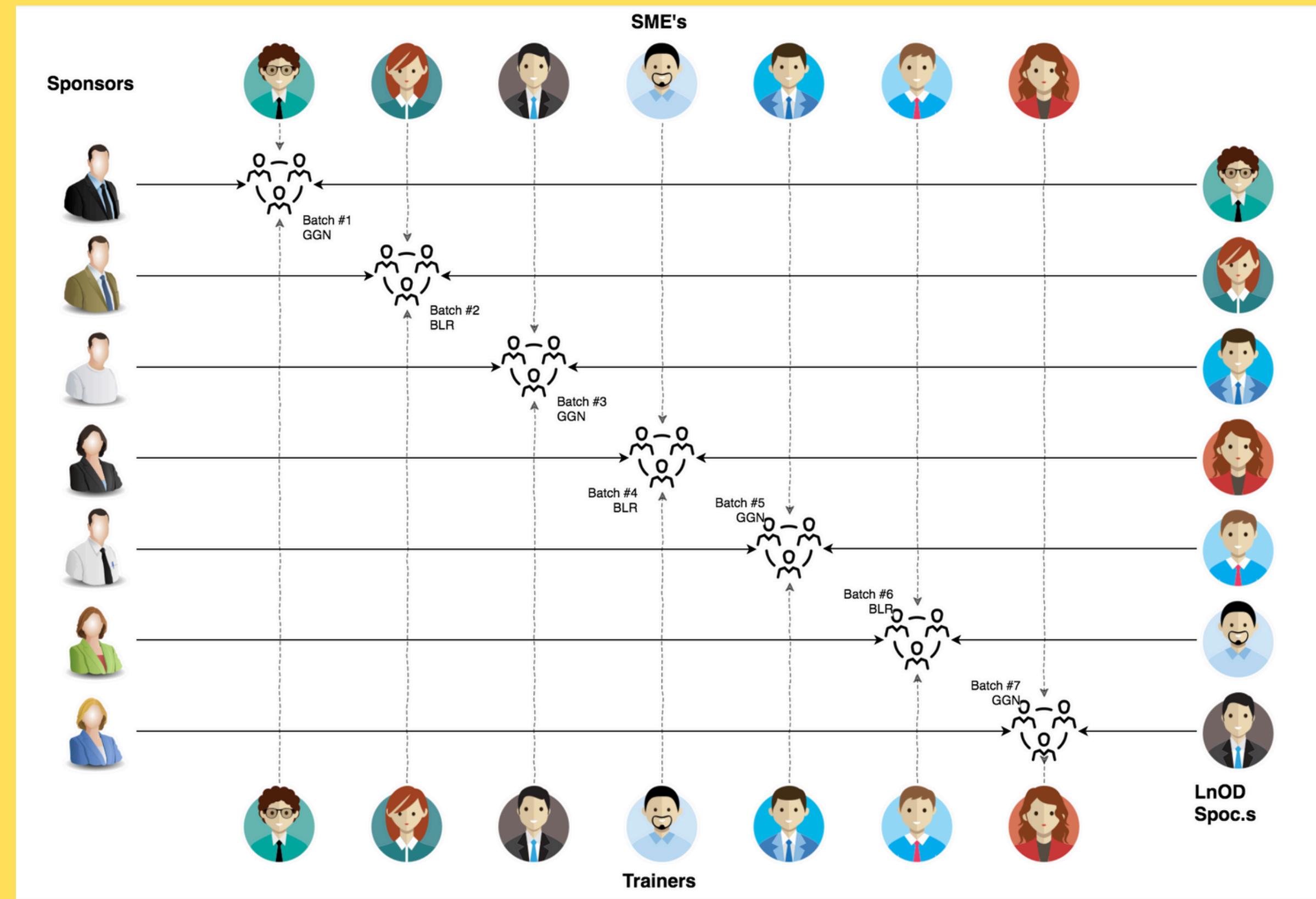
STAKEHOLDERS

1. Organiser

- Raksha Dubey
- Anushka Khanna

2. SME's

Amit Balyan



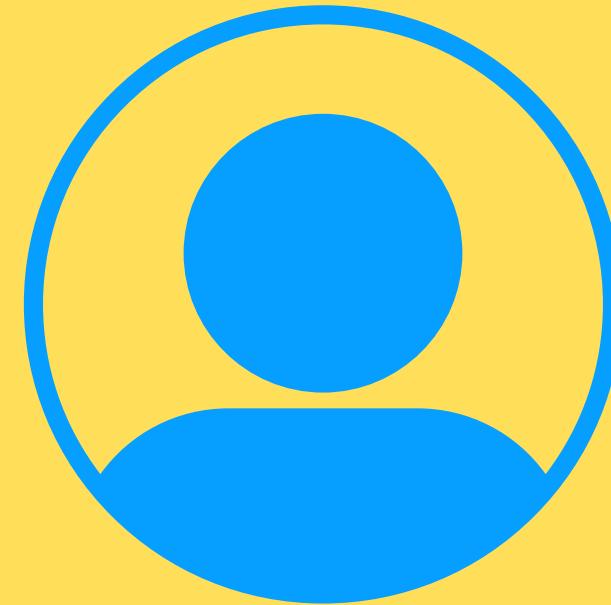
OUR TEAM



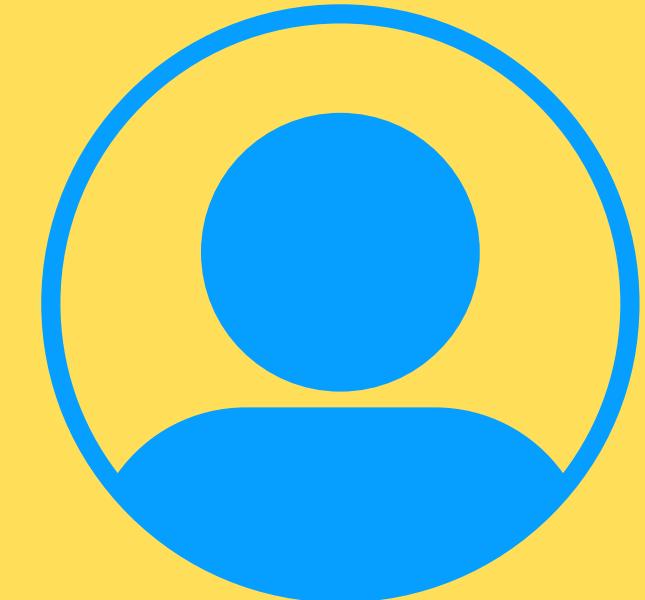
AAYUSH ROY



AARYAN SHETTY



ANJU GUPTA



DHRUV GUPTA



POOJA KUMARI



ROOPA



SATWIK REDDY



SANDLI AGARWAL



SHEFALI GOYAL

AGENDA

- 01 Problem Statement
- 02 Engineering Practices
- 03 Development
- 04 Tech Stack
- 05 Challenges & Learnings
- 06 Demo
- 07 Questions

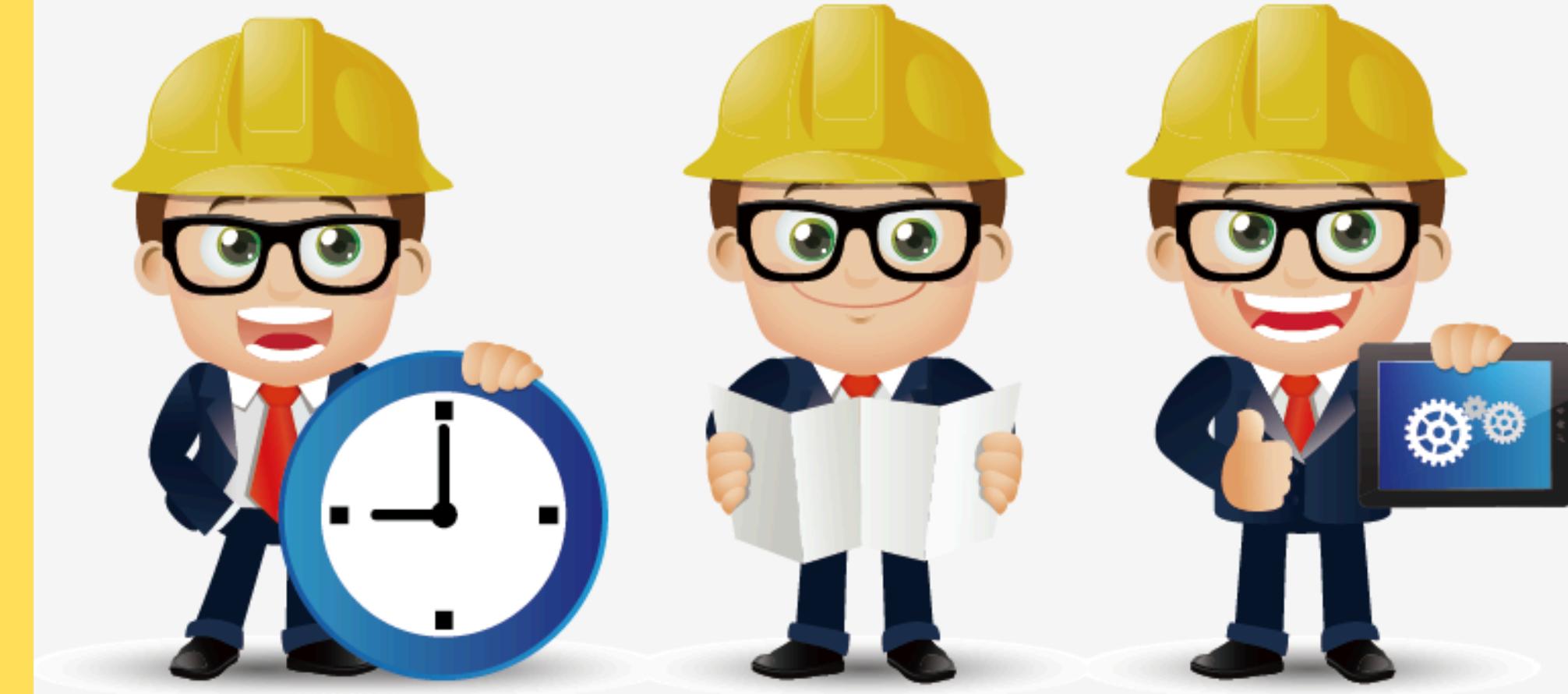


PROBLEM STATEMENT



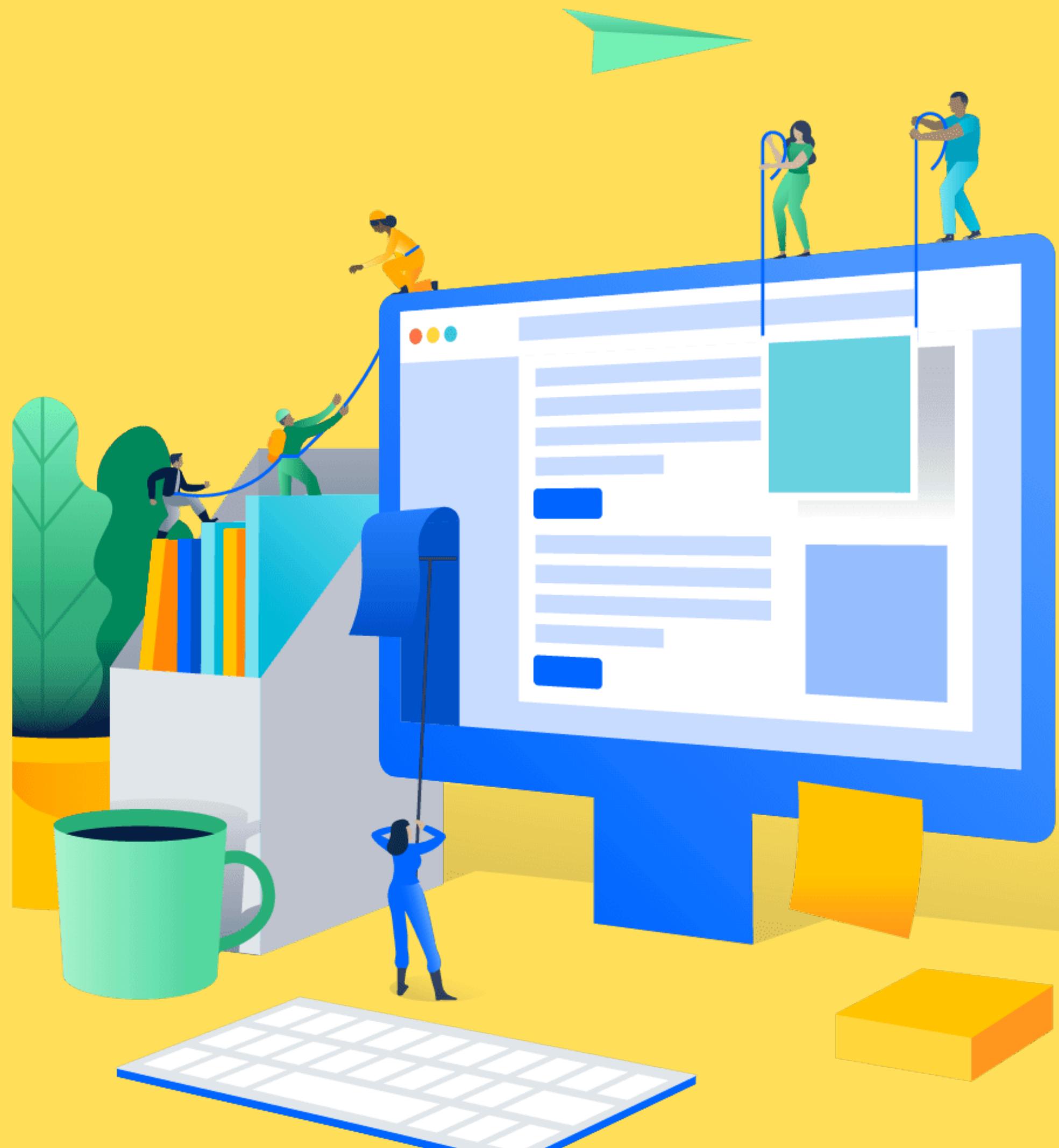
Flipkart is launching FlipFit Gym Application, a new enterprise application aimed at entering the fitness space by partnering with gyms across Bangalore. The goal is to design a user-friendly interface and a robust backend system that enables seamless interaction between users, gyms, and Flipkart.

ENGINEERING PRACTICES

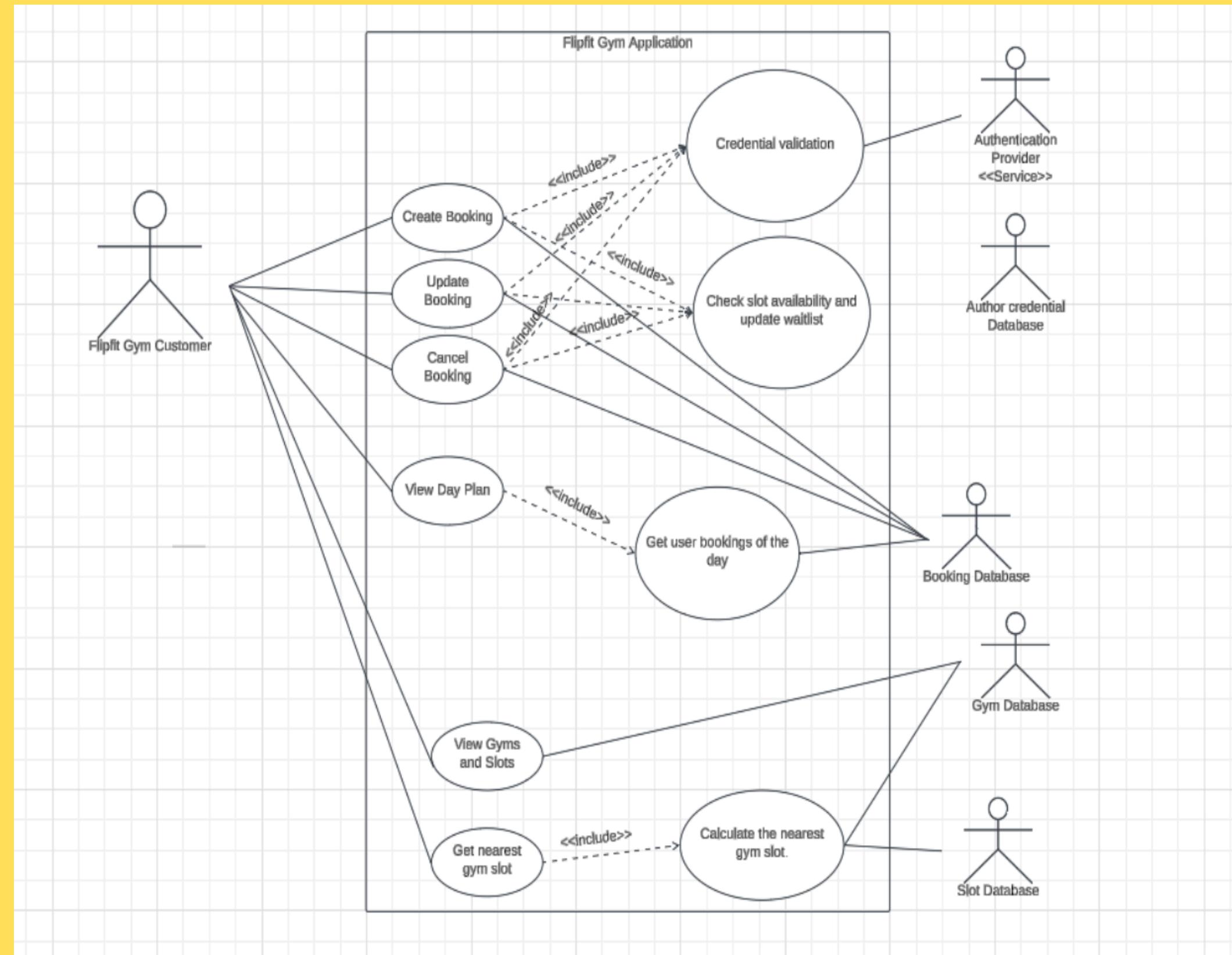


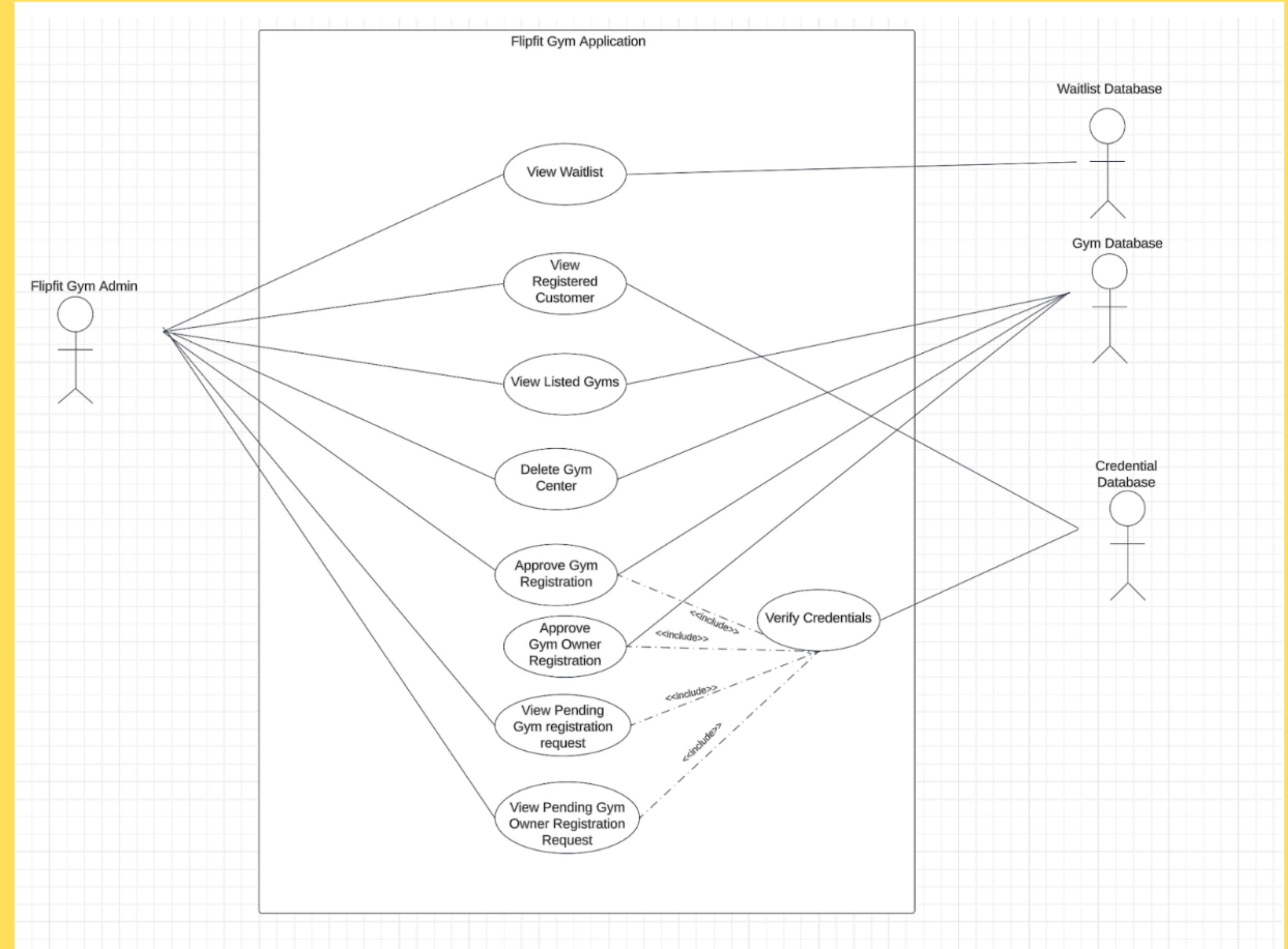


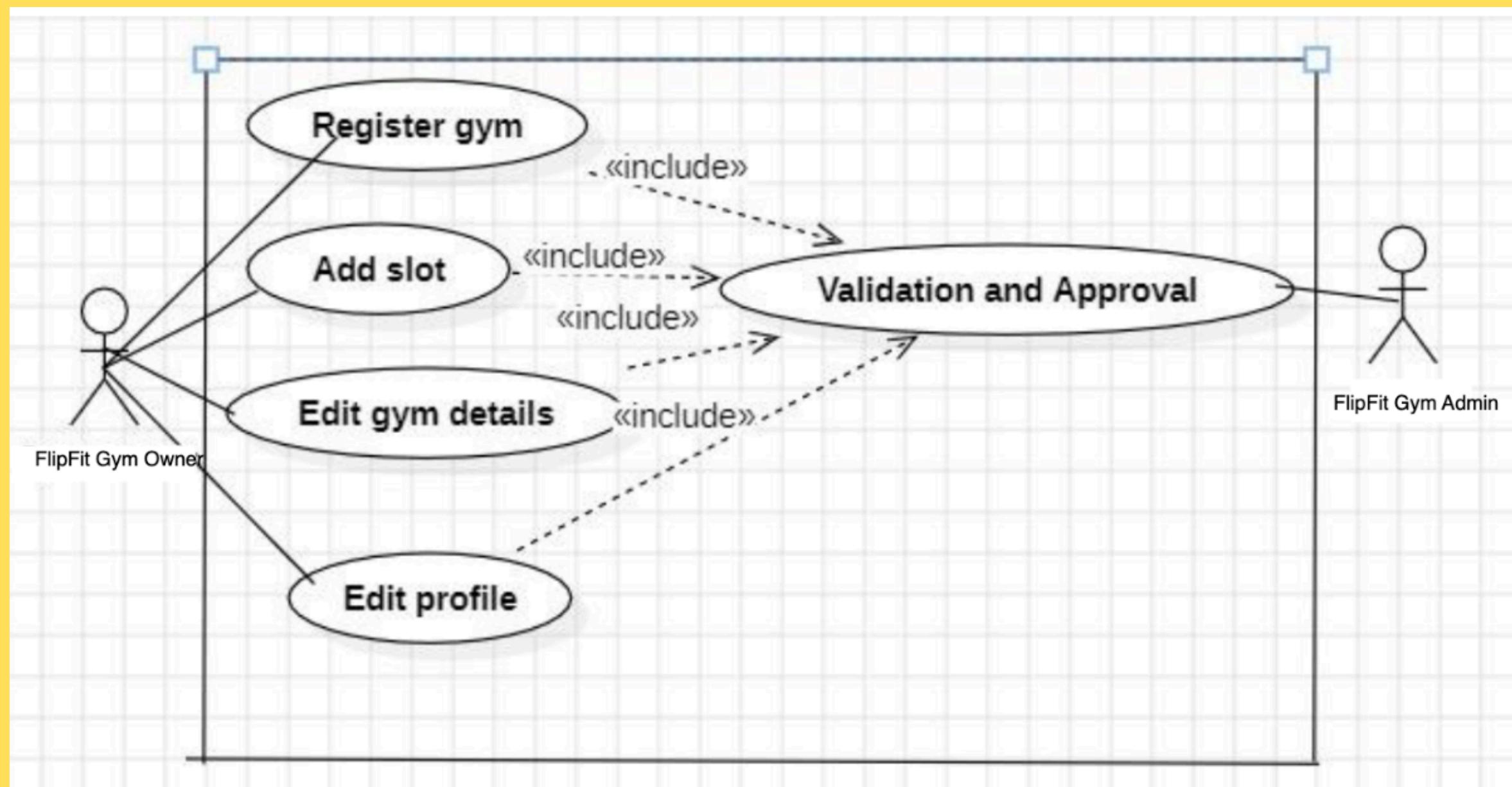
DEVELOPMENT



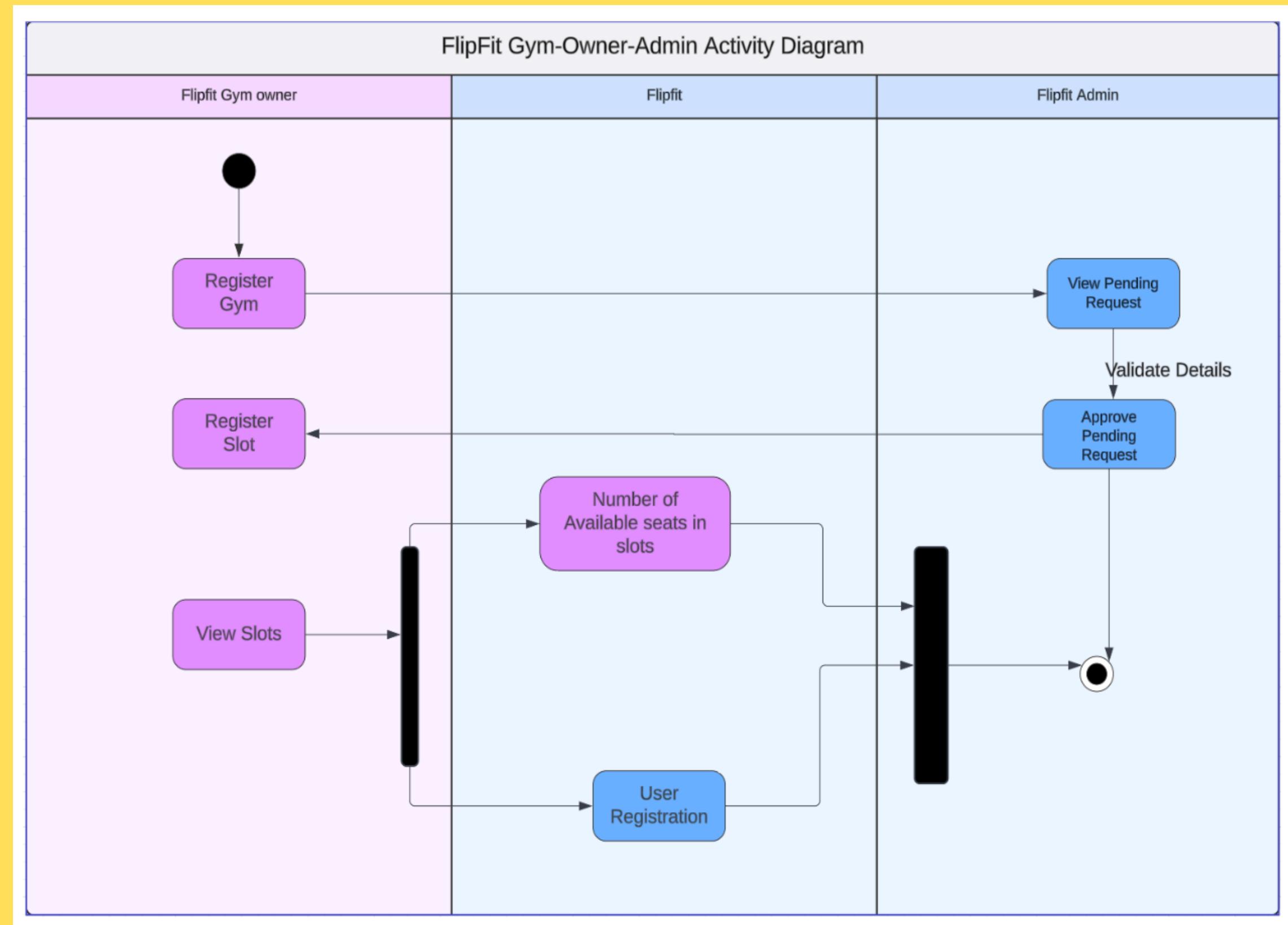
USE CASE DIAGRAMS

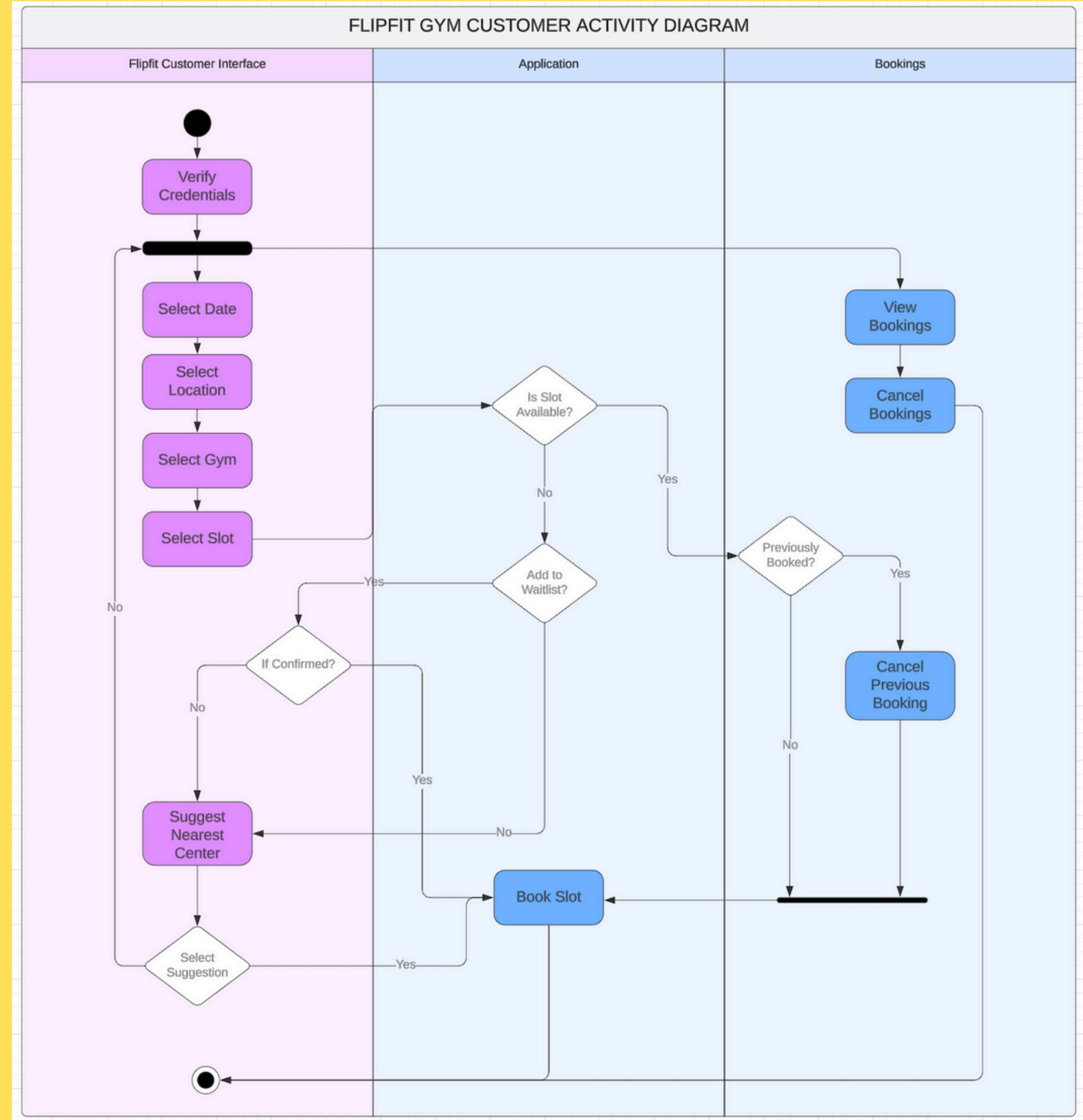


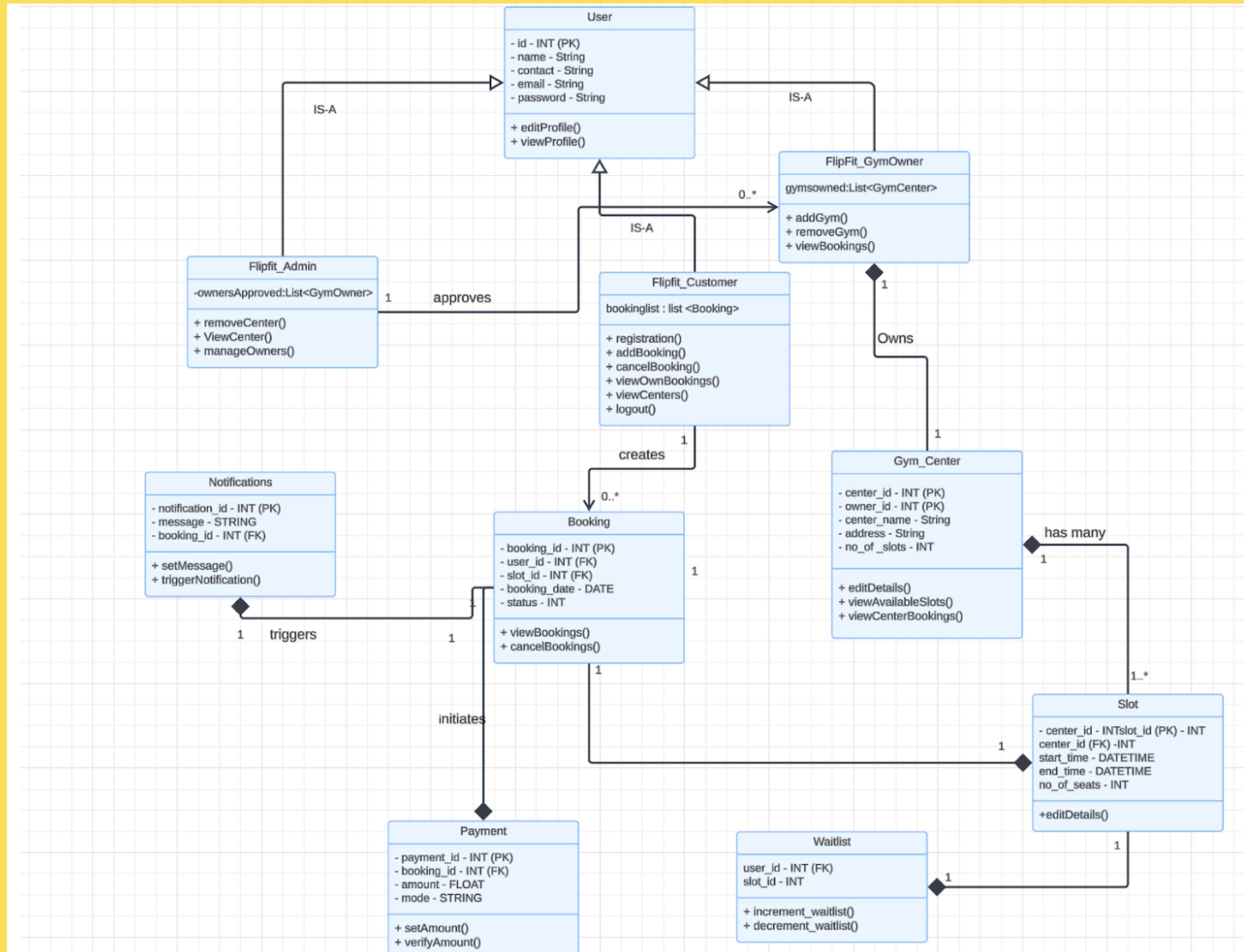




ACTIVITY DIAGRAMS







TECH STACK



Frontend &
Backend

Core Language



Data

SQL Database



Tools

Tools Used



CHALLENGES AND LEARNING

CHALLENGES

1. Slot Availability & Conflict Management

Ensuring accurate seat availability updates across multiple users. Preventing double booking and overbooking scenarios.

2. Maintenance and updation of waitlist for all available slots on creation or deletion of booking by any user.

3. Efficient storage of data in database ensuring least possible redundancy.

4. Management of Git and Github repository avoiding any merge conflicts while pushing to the remote repository or pulling to a local repository.



LEARNINGS

1. Application of OOP concepts to structure a project.
2. Designing and implementing efficient database structures and performing CRUD operations on them.
3. Handling errors and exceptions that may be caused due to errors in the database or network failure, etc.
4. Making the code modular by breaking it into several component classes, each handling a different task.



DEMO



QUESTIONS





THANK YOU