

# SWE212 PROJECT: Mobile Workout Plan Sharing App

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3- Student-customer-role: ELHAMUDDIN ANDARABI



Track your daily workout plans with Vigor

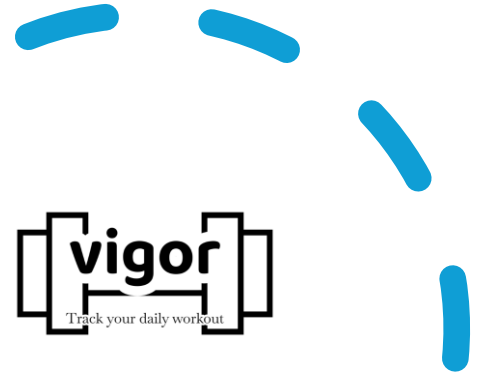


# Main Points :

- 1- Project Overview**
  - 2- Gantt Chart**
  - 3- Use Case Diagram**
  - 4- UML Class Diagram**
  - 5- Sequence Diagram**
  - 6- Activity Diagram**
  - 7- State Machine Diagram**
  - 8 – Component or Deployment Diagram**
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# Overview of the Mobile Workout Plan Sharing App

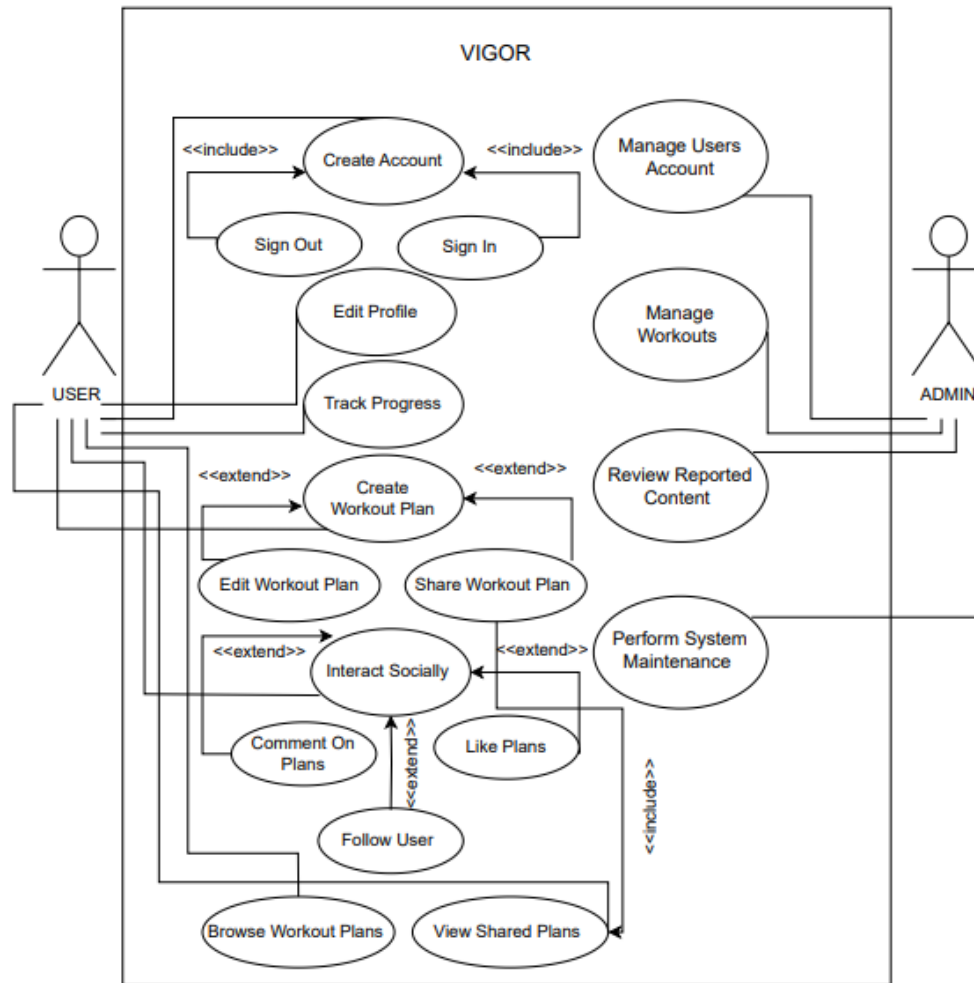
- **Project Name:** Mobile Workout Plan Sharing App
- **Objective:** To create a platform where users can develop, share, and discover workout plans.
- **Key Features:**
- **User Functionalities:**
  - Create custom workout plans
  - Share plans with the community
  - Like, comment on, and share others' workout plans
- **Admin Functionalities:**
  - Review and manage reported content
  - Perform system maintenance tasks
- **Technologies Used for Mockup:**
  - Frontend: React Native
  - Backend: Node.js, Express.js
- **Design Approach:**
  - Used UML diagrams (Class, Use Case, Sequence, State Machine, Activity) for a clear and organized design process.
  - Ensured the app is accessible to all users.



# GANTT CHART GRAPH

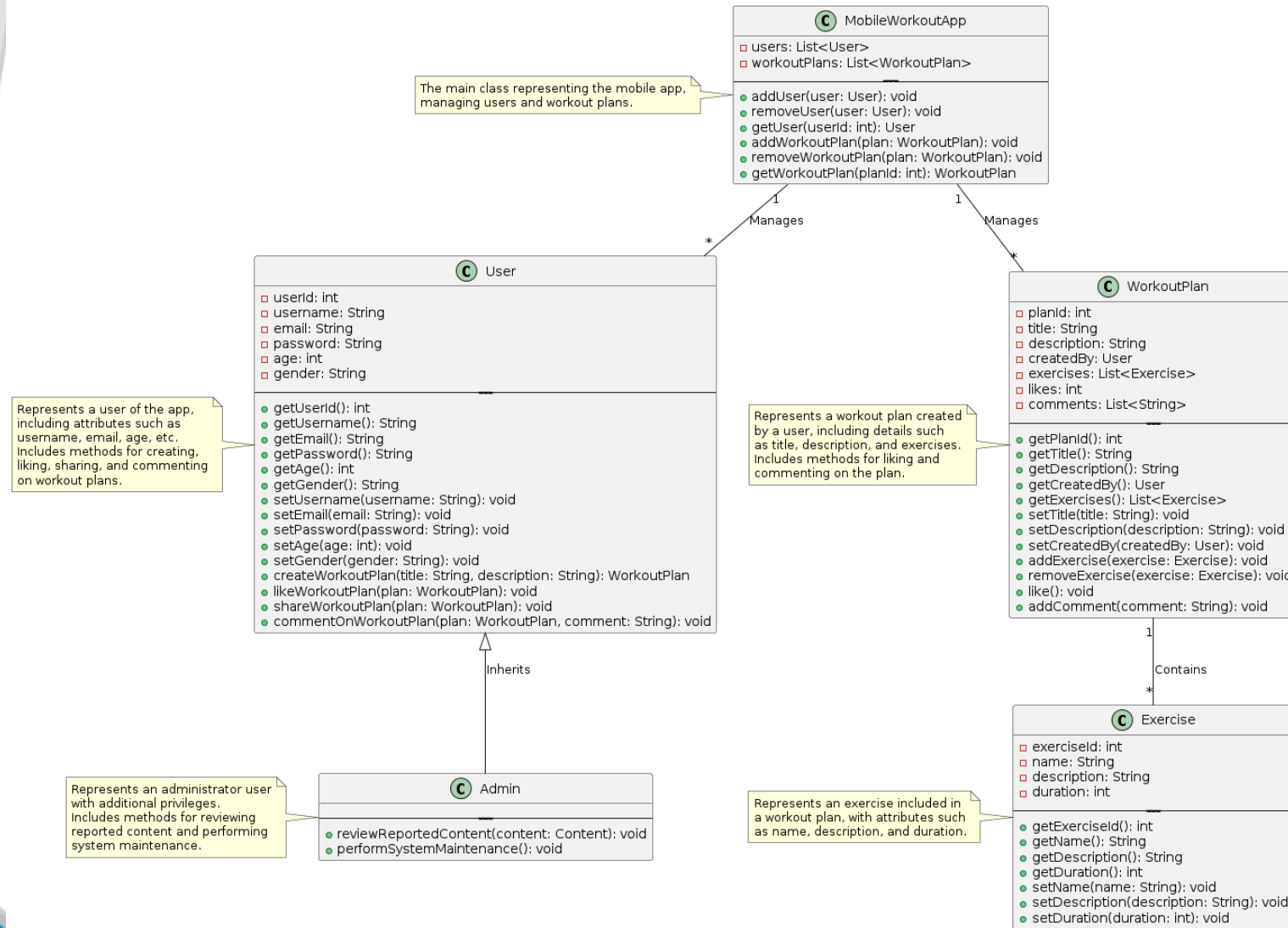


# Use case diagram



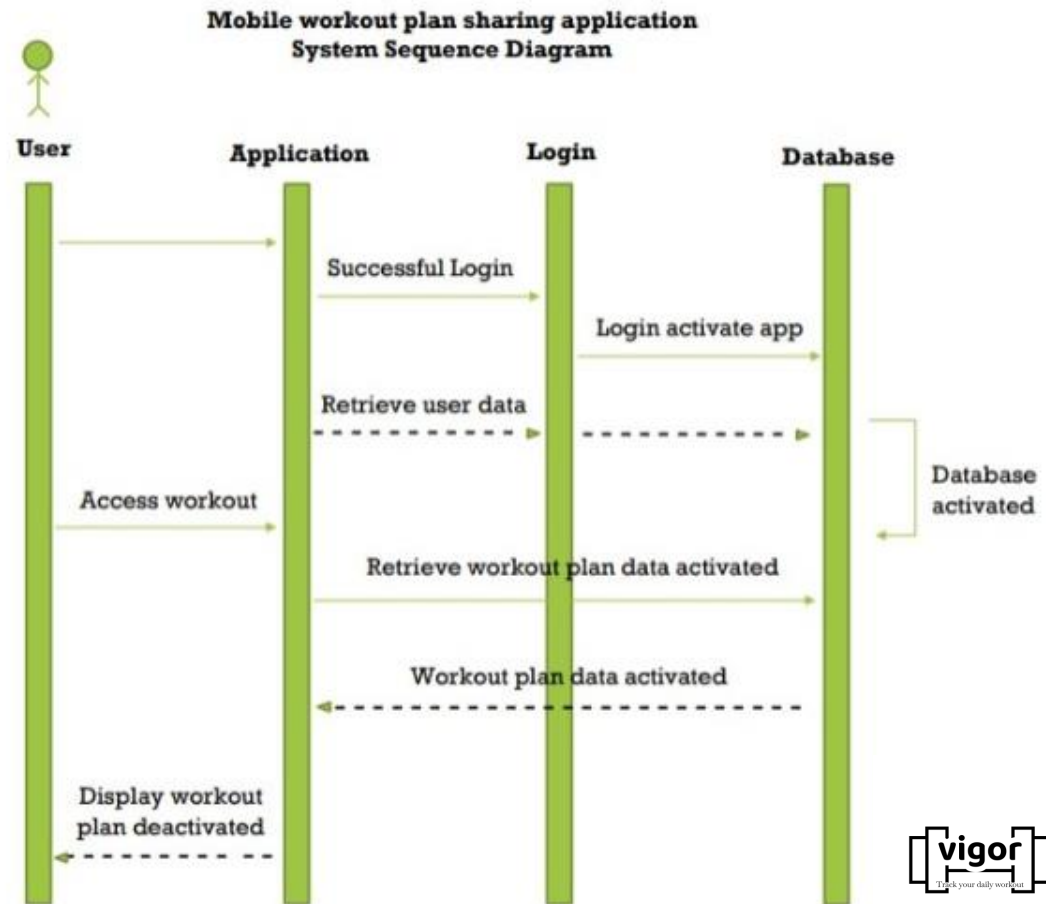
The use case of the mobile workout plan sharing app involves users creating, sharing, and interacting with customized workout plans, while administrators manage and maintain the system's functionality and content.

Mobile Workout Plan Sharing App - UML Class Diagram



The UML class diagram illustrates the structure of the mobile workout plan sharing app by detailing the classes, their attributes, methods, and the relationships between them, providing a blueprint for the system's implementation

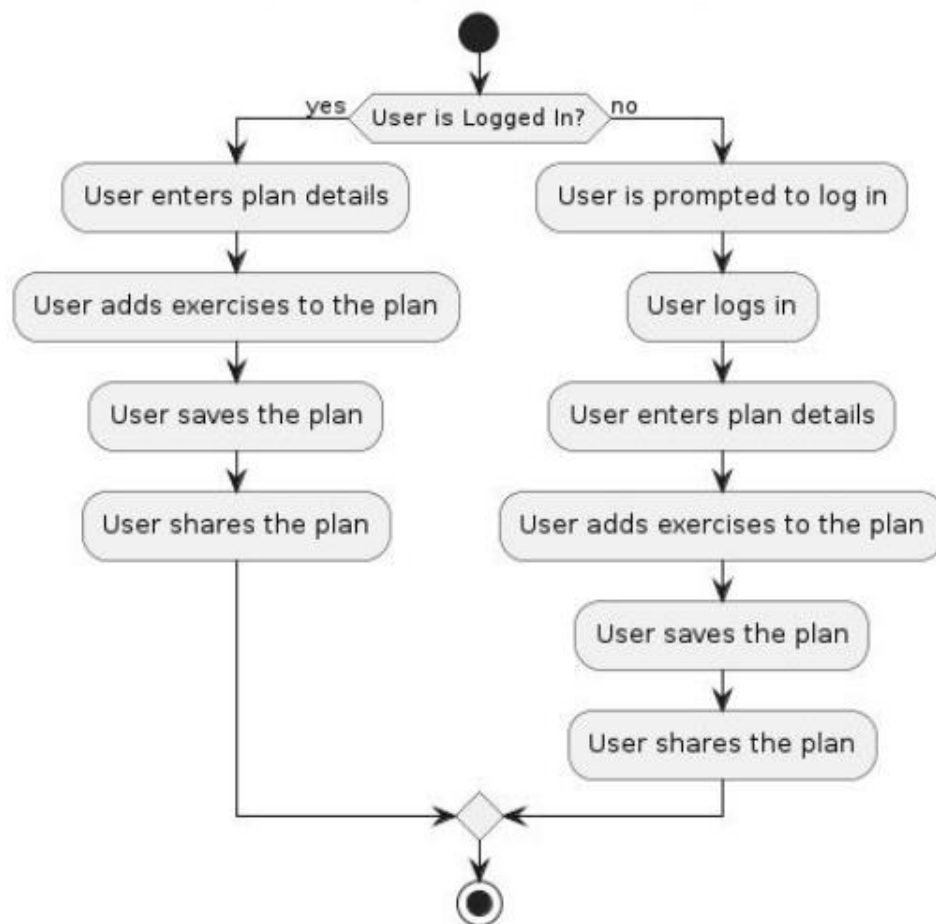
## Mobile workout plan sharing application System Sequence Diagram



The sequence diagram depicts the interaction between objects in the mobile workout plan sharing app over time, showing how user actions, such as logging in or sharing a workout plan, are processed by the system.



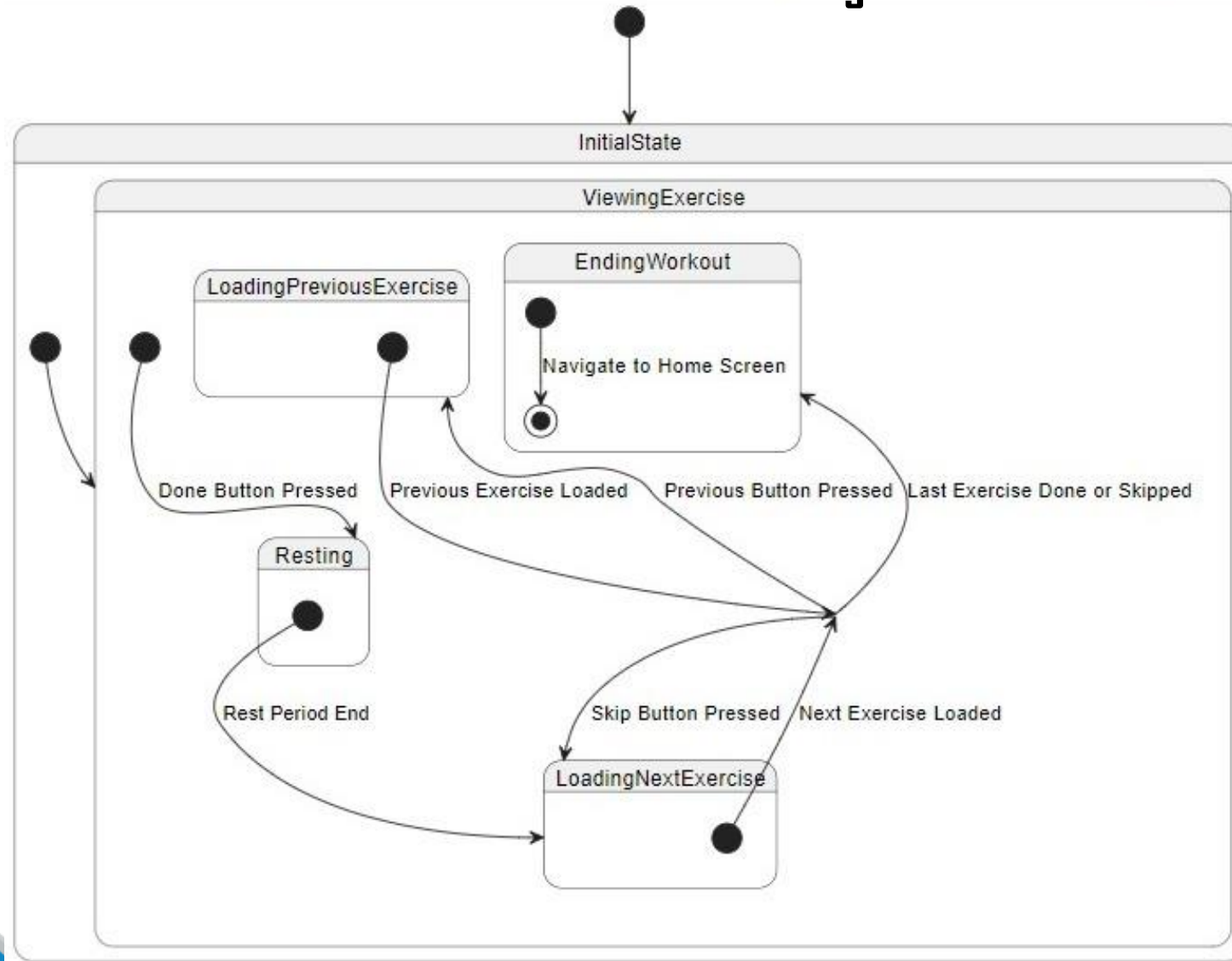
## Create and Share Workout Plan Activity Diagram



The activity diagram outlines the workflow of the mobile workout plan sharing app, illustrating the sequence of activities and decision points from user actions to system responses, ensuring a clear understanding of the process flow.

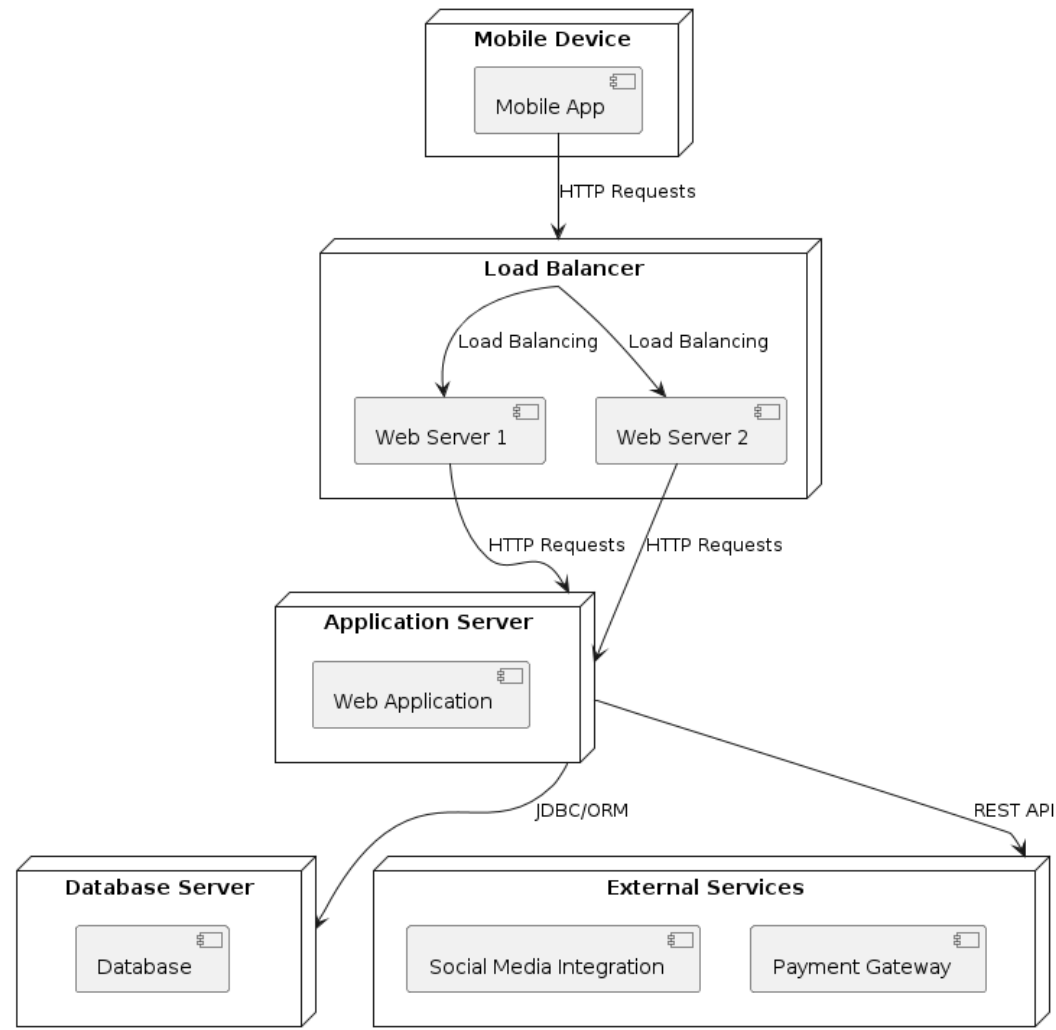


# The state machine diagram



The state machine diagram models the dynamic behavior of a single object within the mobile workout plan sharing app, detailing the various states it can be in and the transitions triggered by user actions or events.

# Deployment diagram



The "Mobile Device" node represents the devices running the mobile app.

The "Web Server" node represents the server hosting the web application.

The "Database Server" node represents the server hosting the database.

The "External Services" node represents external services or APIs integrated with the app, such as social media integration and payment gateway services.

Arrows represent communication between nodes, indicating the flow of data or requests.

The mobile app communicates with the web application hosted on the web server using HTTP requests.

# Summary



## Summary:

- **Project Overview:** Developed a mobile workout plan sharing app that allows users to create, share, and engage with workout plans.
- **UML Diagrams:** Used UML class, use case, sequence, state machine, and activity diagrams to visualize and design the app's structure, interactions, and behaviors.
- **Key Features:**
  - User functionalities: Create, share, like, and comment on workout plans.
  - Admin functionalities: Review reported content and perform system maintenance.
  - Accessibility: Ensured the app is accessible to all users.

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# THANK YOU

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