Opinion Board

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Overview

An Opinion Board that allows users to view feed, post opinions, and comment on others opinions.

Problem Statement

Create an Opinion Board that has the following features:

- Post opinions in a public or private mode.
- Friends who can see private opinions.
- Public opinions are publicly accessible.
- Functionality to comment on others opinions.

Requirements

User

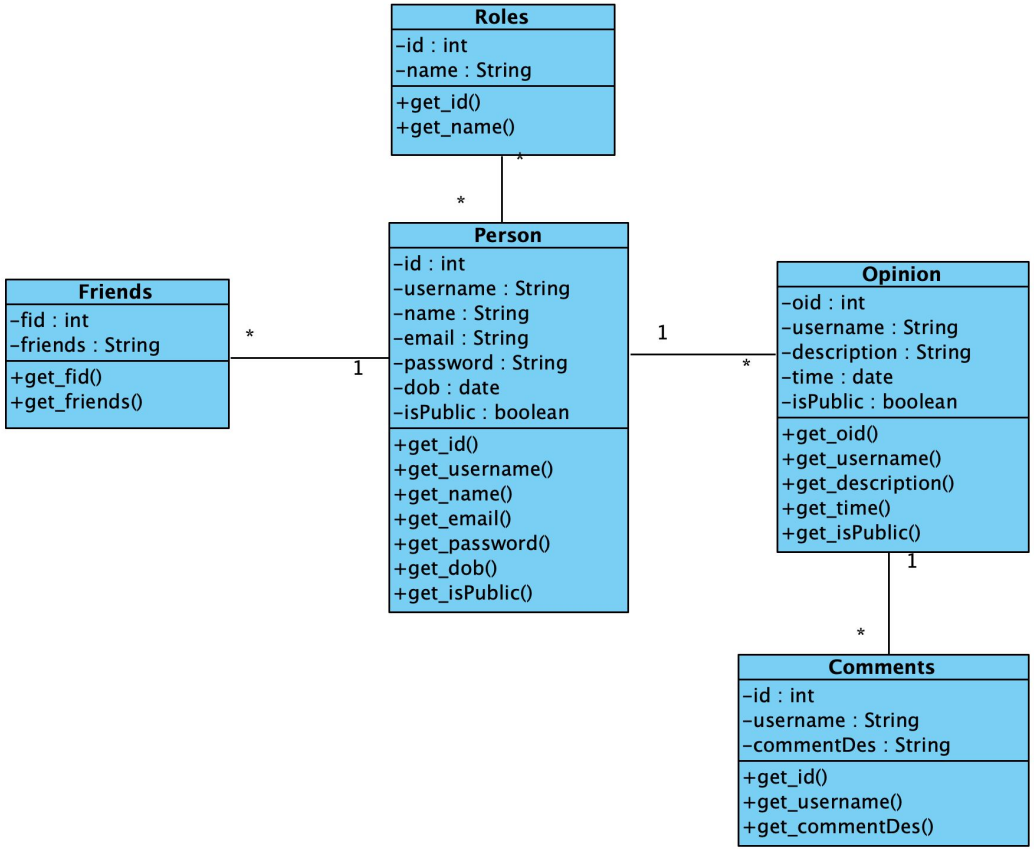
- Sign Up
- Login & Logout
- Post opinions:
  - In a public mode - visible to everyone.
  - In a private mode - visible only to friends.
- View feed that contains:
  - Public opinions from all users.
  - Private opinions from friends.
- View Friends.
- View Profile Information.

Tech Stack

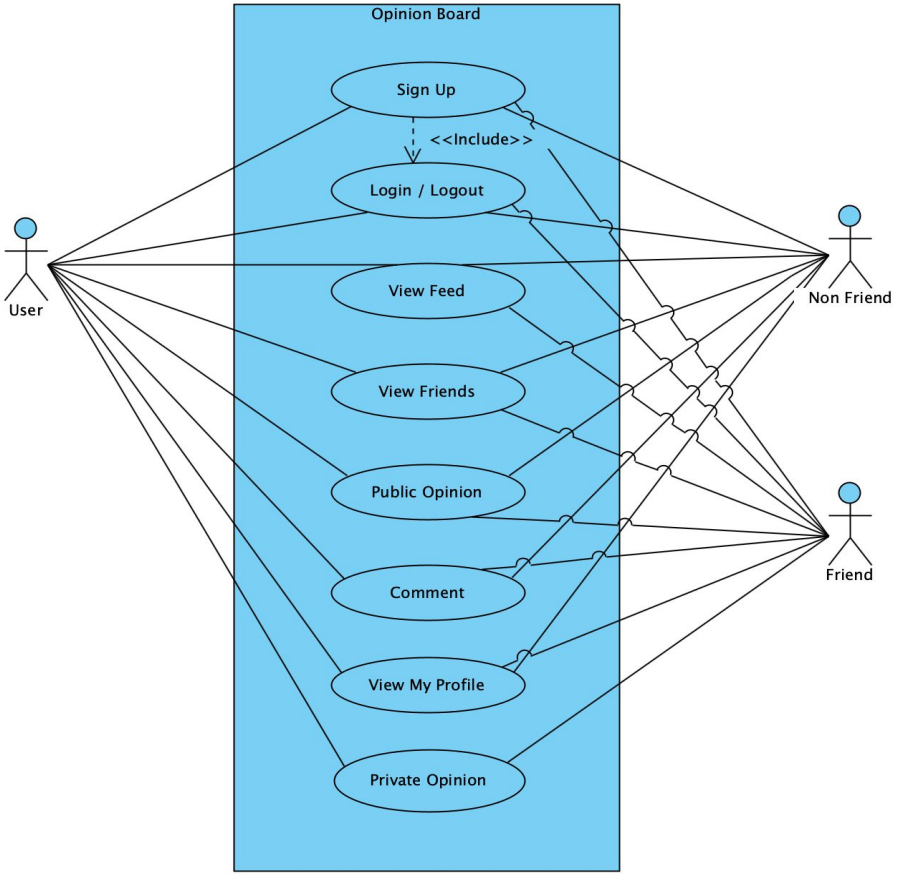
Application Middle layer & Main logic	**JAVA**
Application Presentation Layer	**REACT JS**
Database Layer	**MYSQL**

UML Diagrams

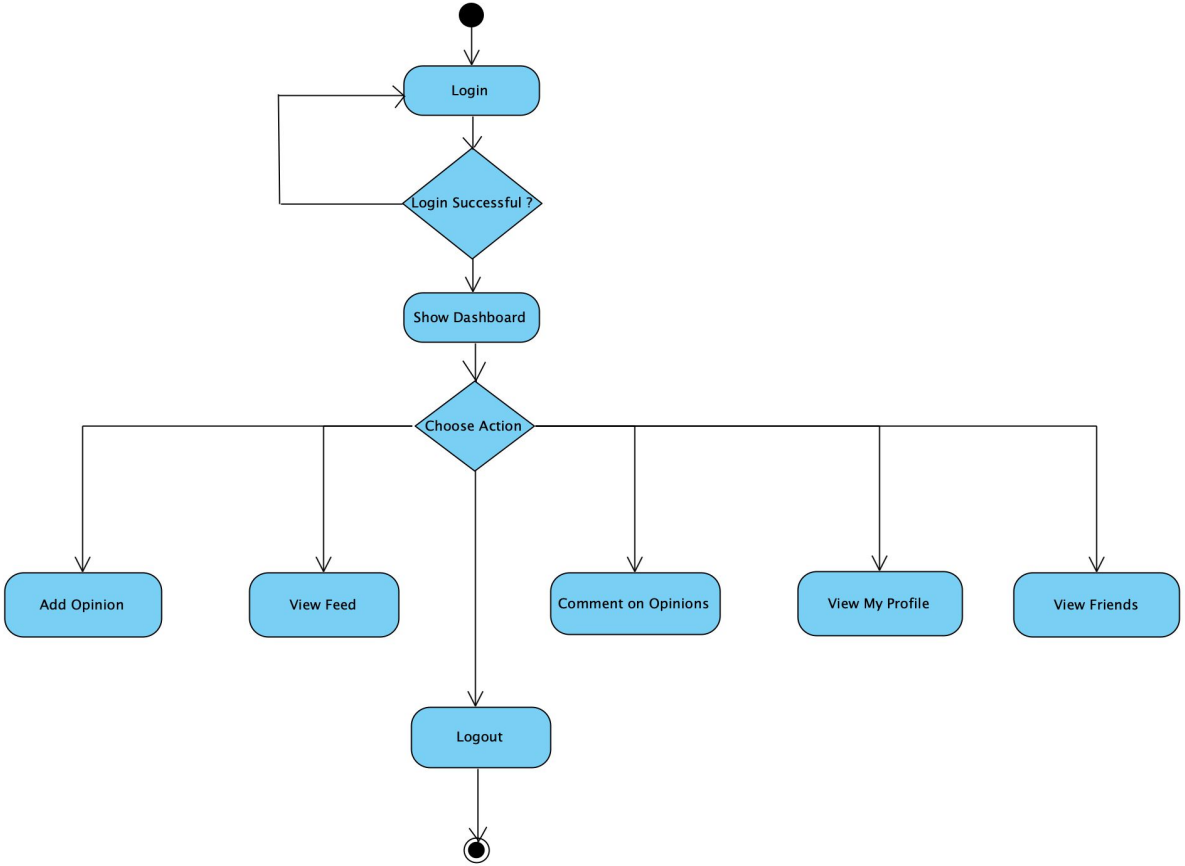
Class Diagram



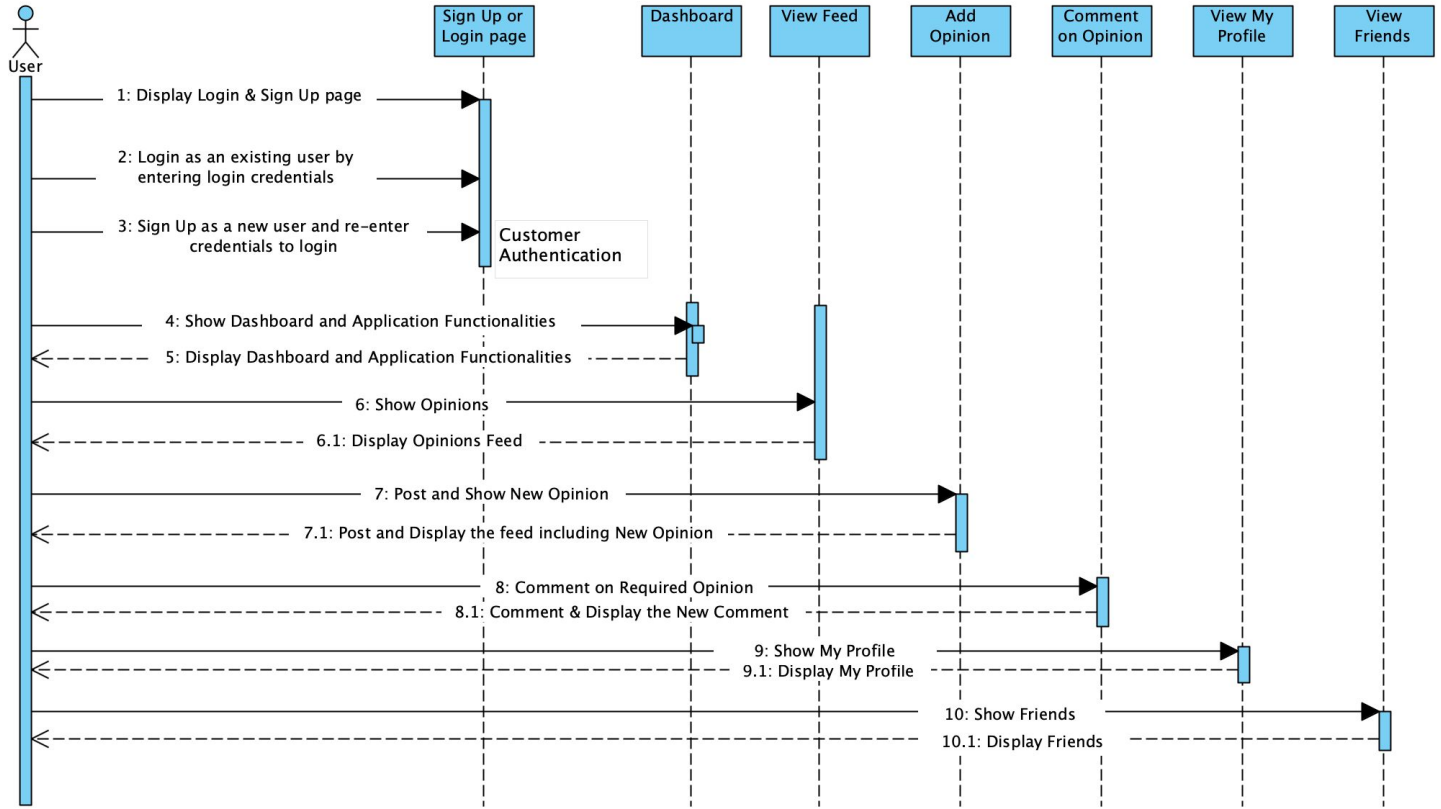
Use Case Diagram



Activity Diagram



Sequence Diagram



Concepts Used

Object Oriented Concepts Implemented

- Encapsulation
  - Used in classes : Opinion(), Person(), Comments(), Roles(), Friends()
- Polymorphism
  - Used when fetching person details through person_id or username.
- Abstraction
  - Used in Service classes: OpinionService(), PersonService(), CommentsService() which acts a layer between the user access and the underlying database.

Design Patterns Implemented

Observer

Observer is a behavioral design pattern that lets you define a subscription mechanism to notify multiple objects about any events that happen to the object they’re observing.

Iterator

Iterator is a behavioral design pattern that lets you traverse elements of a collection without exposing its underlying representation (list, stack, tree, etc.).

DEMO

Future Scope

1. Enable posting images along with text as opinions.
2. Show trending opinions.
3. Search for opinions.
4. Categorise opinions based on topic.

Code - GitHub

Front end:

https://github.com/APadmakshi/opinion_board

Middle Layer:

https://github.com/APadmakshi/API_Opinion

THANK YOU