

PANIMALAR ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Career Pathway Planner and Training App

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ABSTRACT:

A platform designed to bridge the gap between job seekers and industry requirements. It provides personalized career pathway planning for users based on their profiles.

Recommends relevant training and job opportunities aligned with users' career goals.

Offers various training resources, including aptitude, coding, and soft skill development.

Regularly updates users on job vacancies matching their qualifications and interests. Includes personalized training modules tailored to help users acquire necessary skills.

Tracks user progress to ensure they stay on track with their career and training objectives. It aims to simplify the job search process and enhance users' career development in a competitive job market.

EXISTING SYSTEM:

Existing platforms like LinkedIn, Indeed, and Glassdoor allow users to search for job opportunities across various industries, with jobs categorized by domain (e.g., IT, healthcare, education) for easy filtering.

Users can set personalized job alerts to receive notifications about new job openings matching their preferences.

Certain platforms suggest skills users should acquire based on their career goals and job trends.

Apps like Upwork and Fiverr connect users to short-term freelancing opportunities.

Many platforms focus primarily on job listings, offering limited career guidance or personalized training.

Skill development platforms like Coursera and Udemy are separate from job search portals, often requiring users to switch between apps for training and job searching.

PROPOSED SYSTEM

The proposed system is a comprehensive job-seeking application that not only connects users with job opportunities but also helps them improve their skills. It features job search capabilities, real-time notifications, application status tracking, and personalized job recommendations.

A key aspect is the integrated training module, where users can practice aptitude, coding, and other skills critical for job success. This module provides daily tasks tailored to the user's progress, creating a continuous learning experience. Additionally, the system tracks user performance, offering insights to help users improve and better prepare for interviews.

By merging job search with skill development, the system aims to equip users with the tools they need to excel in the job market.

SOFTWARE CONFIRGURATION:

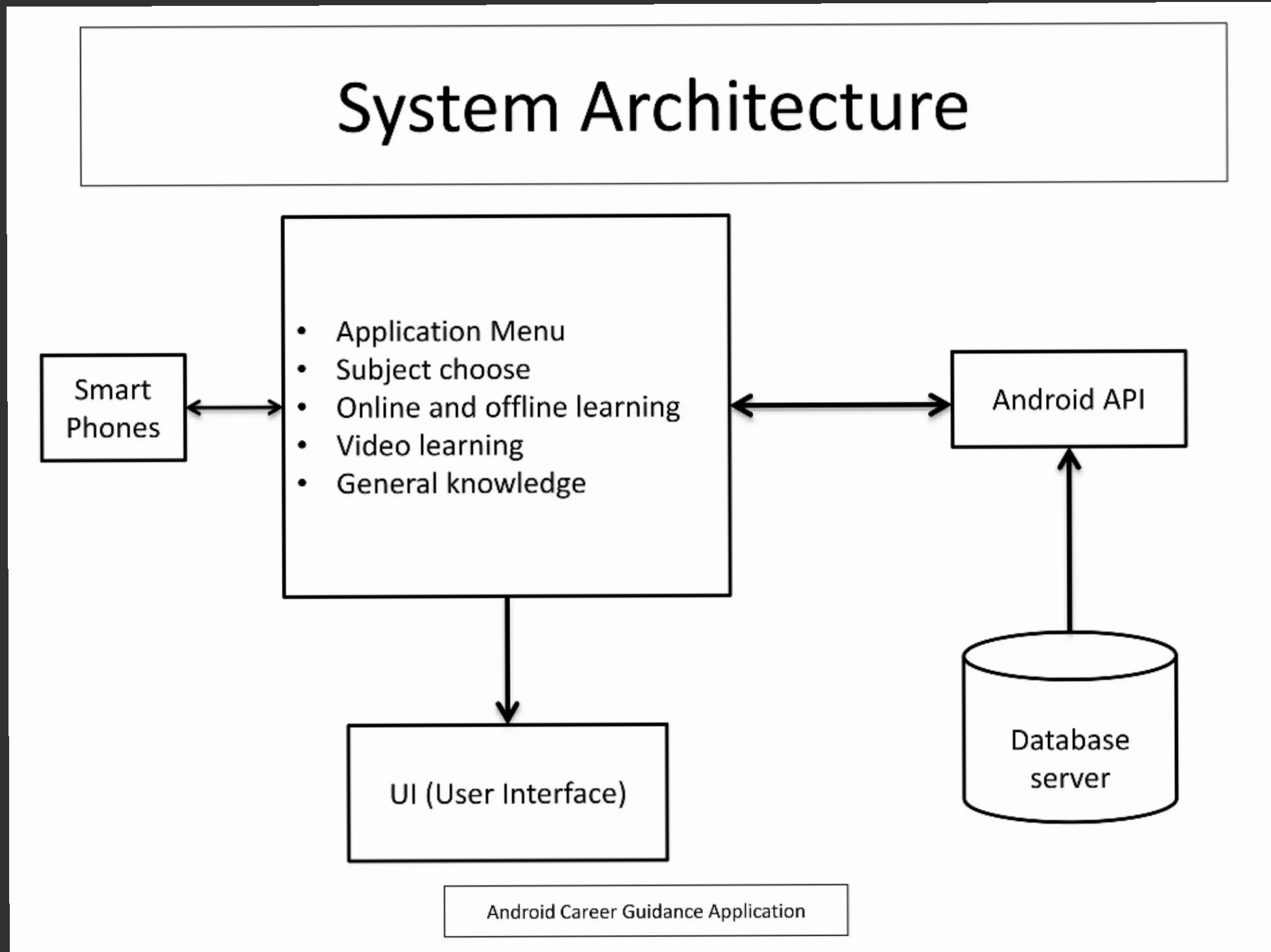
We used the following software in the project:

Flutter: 3.24.0

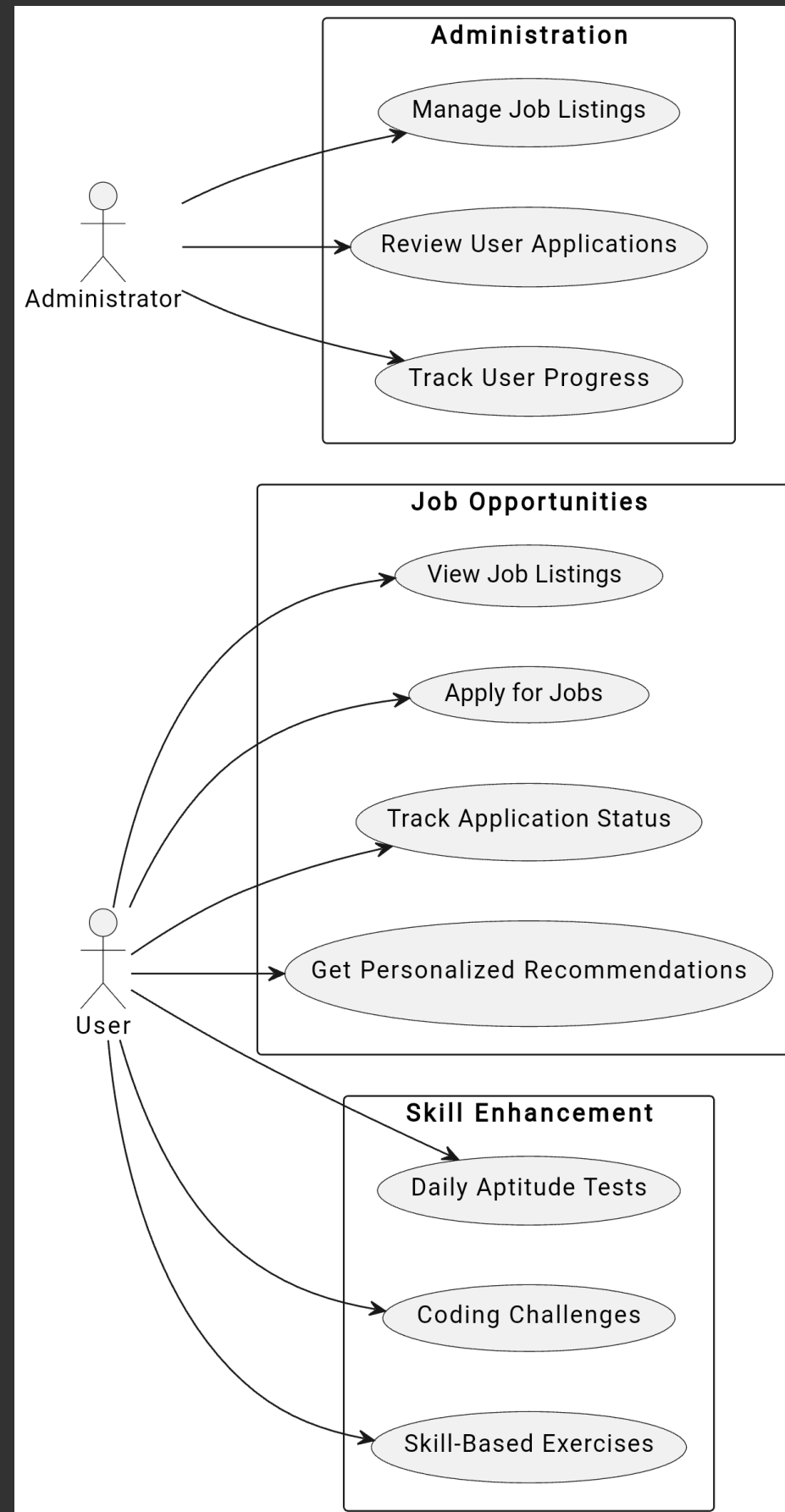
Android Studio: 2024.1.1 (AI)

Visual Studio Code: 1.83.0

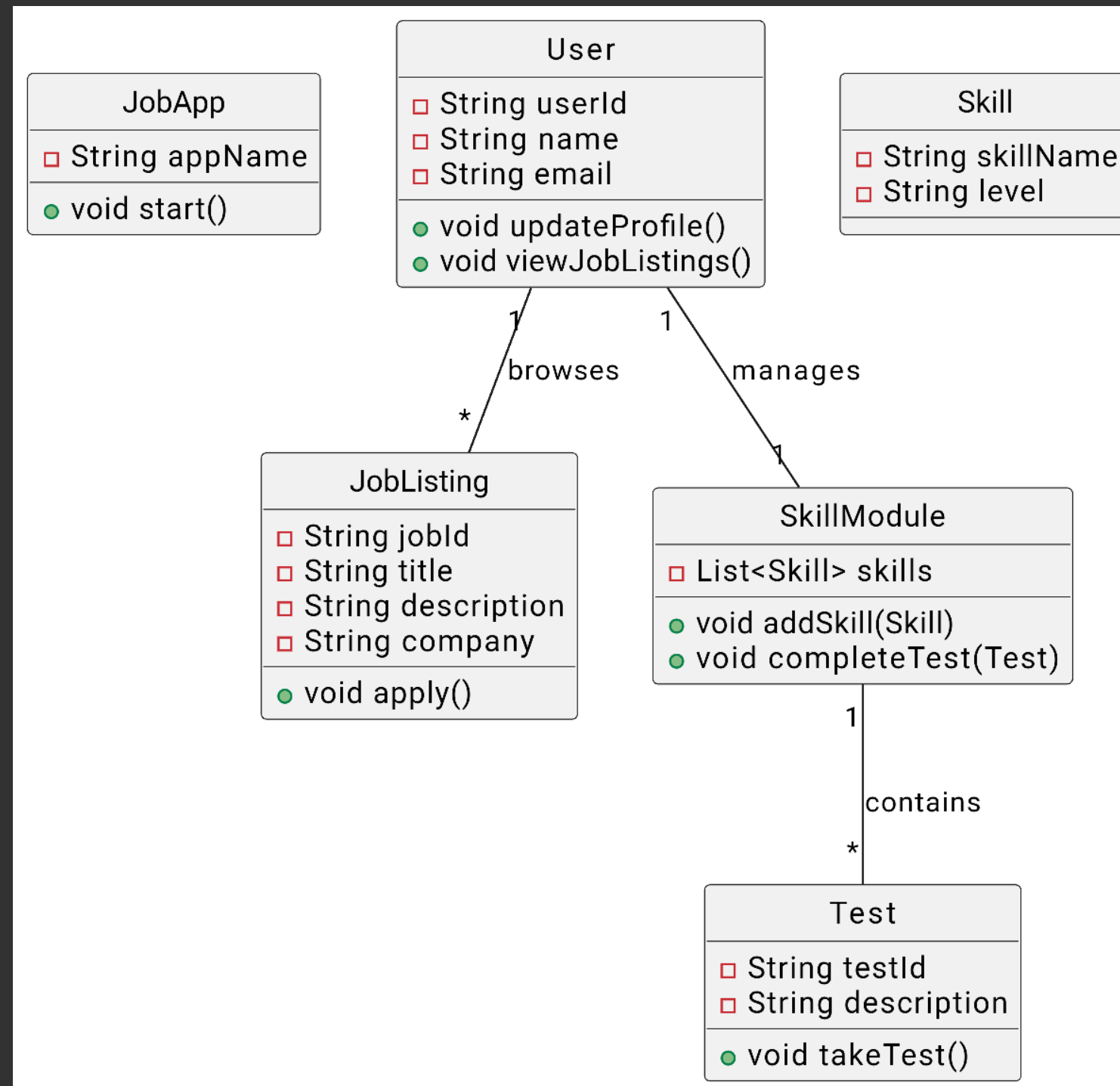
ARCHITECTURE DIAGRAM:



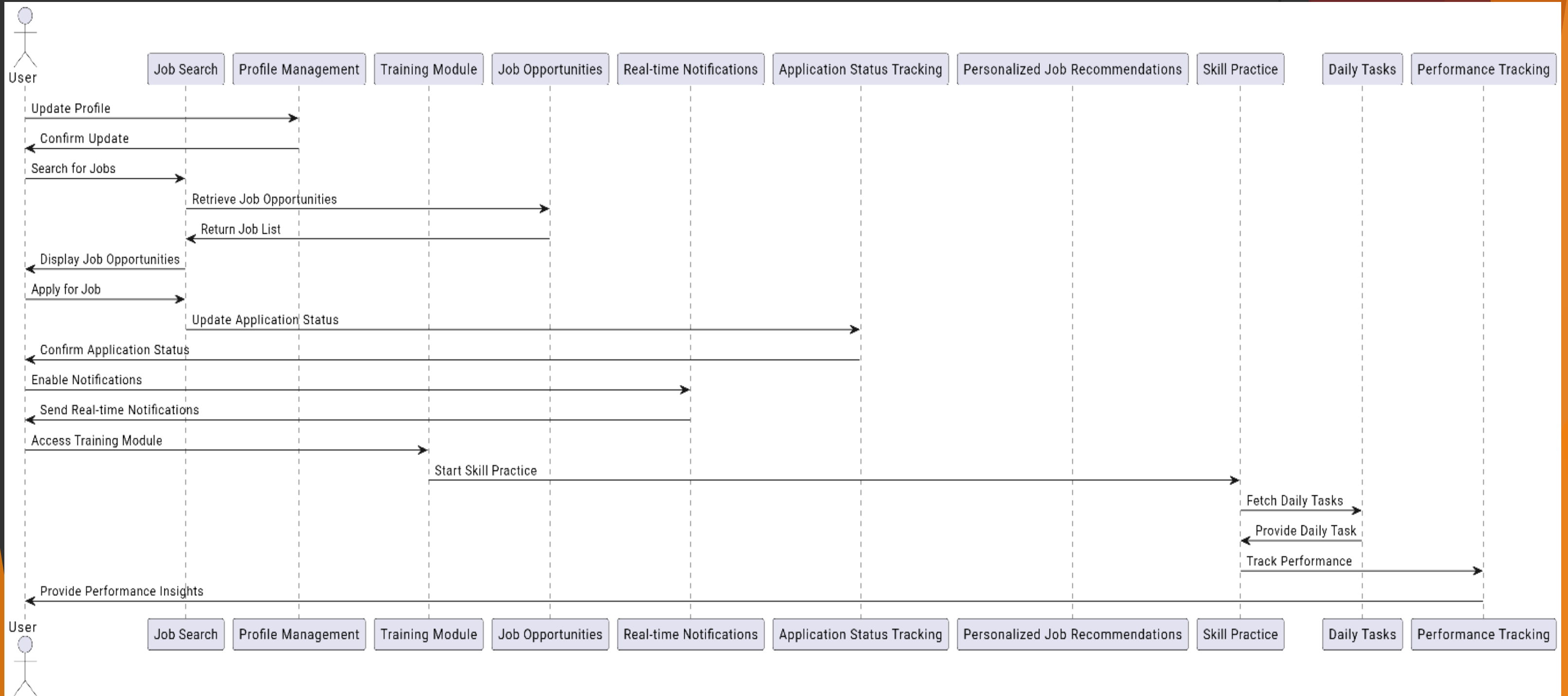
UML DIAGRAMS: Use case Diagram:



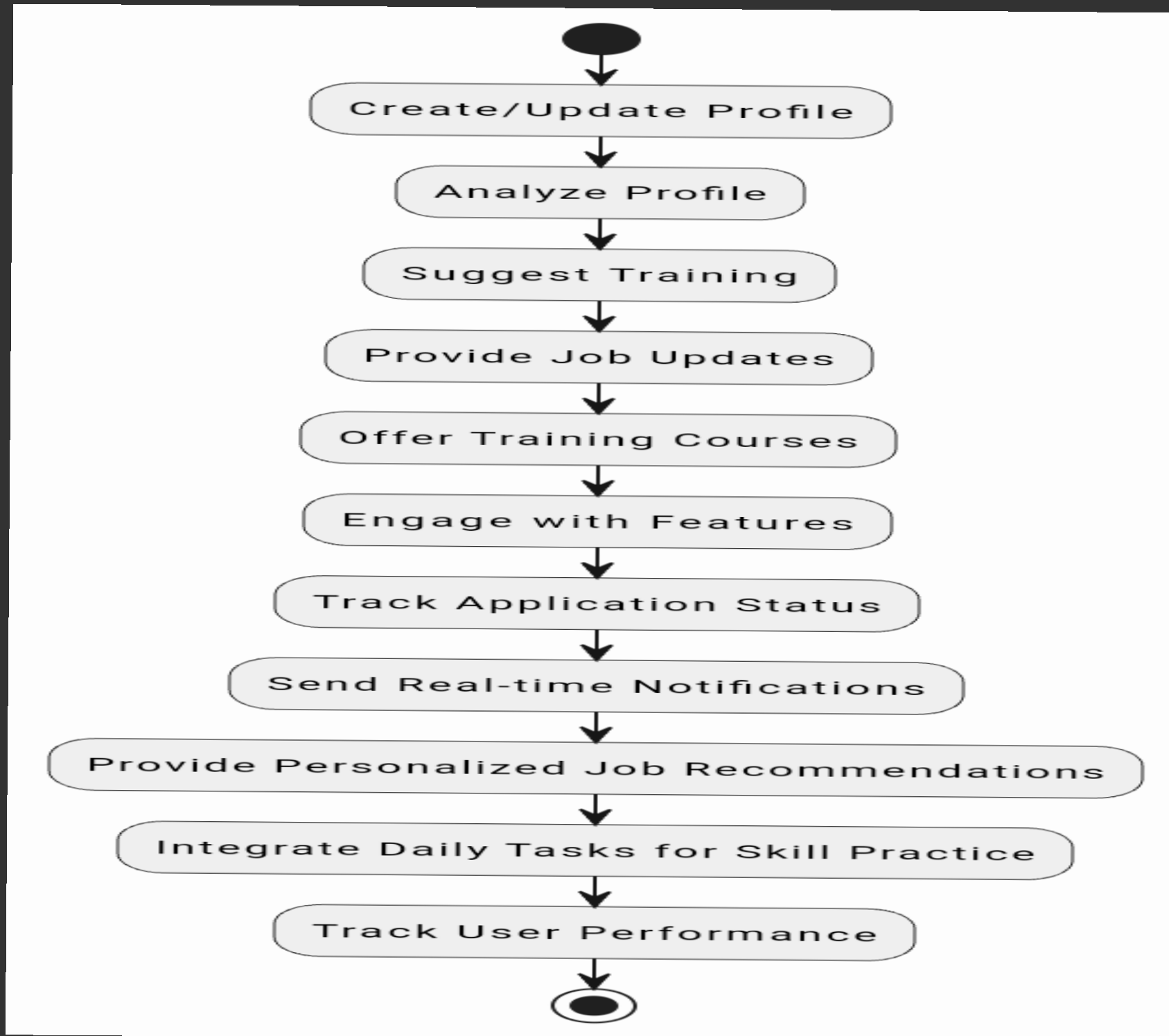
Class diagram:



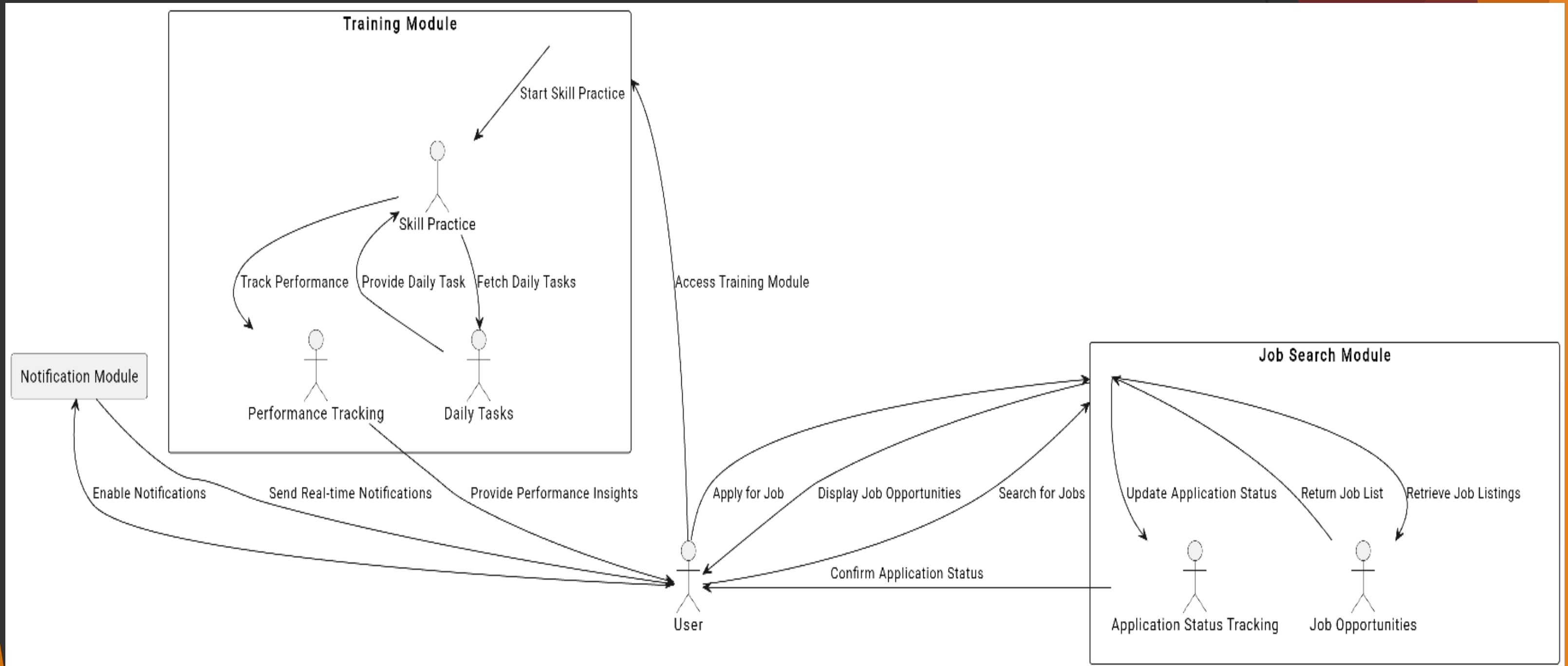
Sequence Diagram:



Activity Diagram:



DATAFLOW DIAGRAM:



MODULES:

1. User Authentication Module:

Manage user registration, login, and authentication.

2. User Profile Module:

Allow users to create and manage their profiles, including personal information, skills, and career goals.

3. Job Listings Module:

Display job vacancies categorized by industry and skill level.

4. Training Resources Module:

Provide recommendations for training programs and courses based on user profiles and job requirements.

5. Application Tracking Module:

Allow users to track their job applications and receive updates on application status. Store application data linked to user profiles and job listings

6. Search and Filter Module:

Enable users to search for jobs and filter results based on various criteria. Use search algorithms to improve user experience.

CONCLUSION:

The project aims to connect job seekers with relevant opportunities while facilitating skill development.

The application includes modules like job listings, application tracking, and personalized training resources for an enhanced user experience.

Utilizing Flutter and Firebase, the project focuses on delivering a seamless and engaging platform.

Features such as notifications and user feedback will ensure the app evolves according to user needs.

The project addresses the need for organized job searches and emphasizes continuous learning and skill enhancement.

It aims to create a more accessible and supportive environment for job seekers to achieve their career aspirations.

FUTURE ENHANCEMENTS:

Mobile Offline Capabilities:

Developing offline access for key features would allow users to browse job listings and training materials without an internet connection.

Collaboration Tools:

Incorporating features that allow users to collaborate on projects or participate in peer learning could enhance the training experience.

Feedback and Rating System:

Implementing a system for users to rate job listings and training resources could improve the quality of recommendations and resources available.

Multilingual Support:

Offering the application in multiple languages would increase accessibility for a wider audience, catering to users from different linguistic backgrounds.

REFERENCES:

1. Morrison, J. (2021). Career Development in the Digital Age: Trends and Innovations. *Journal of Career Assessment*, 29(1), 25-42.

This article discusses the evolution of career development tools and platforms, highlighting the importance of personalized career planning in today's job market.

2. Smith, A., & Jones, L. (2020). The Role of Technology in Job Searching and Skill Development. *International Journal of Human Resource Management*, 31(6), 800-820.

This study examines how technology facilitates job searching and skill enhancement, emphasizing the need for platforms that integrate both functionalities.

3. Chen, Y. (2022). Machine Learning in Career Counseling: A New Approach to Job Matching. *Journal of Applied Psychology*, 107(4), 562-578.

This research article explores the application of machine learning algorithms in career counseling, providing insights into how AI can improve job matching accuracy.

4. Davis, R. (2023). The Future of Work: Adapting to Changing Industry Needs through Continuous Learning. *Future of Work Journal*, 5(2), 110-126.

This article outlines the critical need for continuous learning and adaptation in the workforce, reinforcing the importance of integrating training resources in career development platforms.

SAMPLE OUTPUT:

