Update 1 – Progress Update Report

CSE 499A: Senior Design I | Section: 15 | Group: 03
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Project Summary

Our project, "JobCore: AI Agent to Get Your Job," will automate and use artificial intelligence to make the whole timeline of the job application process easier to manage. It facilitates job discovery and resume optimization, fills in applications automatically, and utilizes AI to create mock interview scenarios in the same environment. JobCore gives users insights into their job preferences by matching them to job listings, offers resume enhancement solely for ATS systems, and provides users with personalized interview practice experience combined with sound feedback in each scenario, making the job-seeking experience more streamlined, improved, and faster.

Completed Task

- Studied the currently available tools like Wonderin AI, Obscan, and VMock.

- Completed the project proposal report and presentation slides.

- Conducted an initial literature review on job automation, resume optimization, and AI mock interviewing tools.

- Set up the project development environment and GitHub repository.

- Researched integration methods for job search.

- Designed and implemented the frontend UI/UX system, including:

    - Login Page

    - Sign Up Page

    - User Dashboard

    - User Profile

Work in Progress

- Learning Langgraph, Python, and ReactJS.

- Refining the frontend UI/UX for the job search agent and mock interview modules.

- Setting up and connecting the backend APIs for authentication and data storage.

- Testing user data persistence and validation for the login and sign-up modules using Firebase.

- Integrating database management with MongoDB and Firebase for user records.

Next Target

- Finalize frontend design for job search UI, AI mock interview, and resume checker pages.

- Implement user authentication and two-factor authentication (2FA) for enhanced security.

- Continue the backend connection between the user profile.

Challenges

- Learning and implementation synchronization together.

- Designing modern and smooth UI/UX.

- Solving GitHub-related issues.