## Asklytics

### Progress Report Number: 1

### COMP-4495

### Applied Research Project

### Section: 001

### Submitted By

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#### Work Logs

| **Date** | **Hours Spent** | **Description of Work Done** |
| --- | --- | --- |
| Jan 27, 2025 | 3.5 | Researched various UI libraries for chat interface, including open-source projects. Checked Reddit discussions to find the best fit. |
| Jan 28, 2025 | 3 | Explored marcusschiesser/ui chat UI for integration. Tested initial UI components. |
| Jan 29, 2025 | 3 | Explored pro-chat.antdigital.dev chat UIs for integration. Tested initial UI components. Reverted marcusschiesser/ui as it was not a cleaner solution |
| Jan 30, 2025 | 2.5 | Set up chat screen layout using Ant Design and Tailwind CSS. |
| Jan 31, 2025 | 1.5 | Fixed language inconsistencies in chat UI. Refactored and cleaned up code. |
| Feb 1, 2025 | 2 | Implemented Google OAuth2 for authentication using @react-oauth/google. Tested and debugged authentication flow. |
| Feb 3, 2025 | 1.5 | Finalized application color theme and UI refinements. Conducted additional cleanup and refactoring. |
| Feb 4, 2025 | 2 | Researched how to set up Google Console App for OAuth2 authentication. Explored Hugging Face chat UI for potential integration. |
| Feb 6, 2025 | 2.5 | Tested different authentication flows and finished adding routes for various app view /login & /chat. |
| Feb 9, 2025 | 2.5 | Worked on documenting the effort and report |

#### Description of Work Done

In last two (2) weeks, I focused on first milestone of Asklytics project which is implementing a chat UI and setting up Google OAuth2 authentication in react project. Initially, I explored multiple UI libraries for chat interfaces and experimented with open-source projects. After testing, I chose Ant Design’s @ant-design/pro-chat for its flexibility and responsiveness.

I also implemented Google OAuth2 authentication using @react-oauth/google, ensuring a smooth sign-in experience. Additionally, I spent time researching how to properly set up a Google Console App for OAuth2 and experimented with Hugging Face’s chat UI for potential future improvements. Throughout the process, I refined the UI with Tailwind CSS and improved the application’s color theme. Several rounds of code cleanup and refactoring were done to maintain code quality.

#### Repo Check-in of Implementation Completed

The following files and folders were checked into the repository:

* **Frontend Setup**: Added dependencies (API, state management, router, Tailwind CSS).
* **Chat UI Implementation**: Tested and integrated chat UI components.
* **Authentication Setup**: Implemented and tested Google OAuth2 authentication.
* **Research and Experimentation**: Investigated Google Console App setup and Hugging Face chat UI.
* **Refactoring and Cleanup**: Improved language consistency, optimized UI, and finalized theme settings.

#### What’s Next

Following week I intend to finish backend work to store access token & refresh token from the OAuth2 flow in database through Backend.

#### Note

Regular check-ins were done in a separate branch chat\_ui\_implementation to ensure steady progress, and all major implementations were pushed & merged to main branch after testing to the repository under the appropriate folders.