

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 <code>marcusschiesser/ui</code> chat UI for integration. Tested initial UI components.
Jan 29, 2025	3	Explored <code>pro-chat.antdigital.dev</code> chat UIs for integration. Tested initial UI components. Reverted <code>marcusschiesser/ui</code> 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 <code>@react-oauth/google</code> . 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 <code>/login</code> & <code>/chat</code> .
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.