**Sprint Report for Sprint 1**

**Overview**

Sprint 1 focused on establishing the foundational security and user management features for our application. This included the implementation of an Authentication Module, Social Authentication Module via Google, comprehensive CRUD operations for user management, a feature for users to update their profile photo, and the initial setup of the Posts API.

**Objectives**

* Implement secure authentication mechanisms.
* Enable social login functionality.
* Provide admin capabilities for user account management.
* Allow users to update and manage their profile photos.
* Lay the groundwork for the posts functionality.
* Successfully integrated Laravel Breeze for the Authentication Module.
* Integrated Google as a social login provider using Laravel Socialite.
* Developed and tested CRUD operations for user management, ensuring only authorized users can perform specific actions.
* Implemented functionality for users to update and delete their profile photos, including storage management.
* Established the basic structure for the Posts API, including database migration and model.

**Pending Tasks**

* Further optimization of the authentication flow.
* Refinement of the Posts API based on future requirements.
* Challenges and Solutions
* Encountered issues with social authentication flow consistency across different devices. Resolved by updating the OAuth callback handling process.
* Initial performance concerns with the profile photo update feature. Improved by optimizing image storage and retrieval processes.

**Key Learnings**

* The importance of thorough testing in different environments for features like social authentication.
* Efficient management of static assets, such as profile pictures, to enhance performance.

**Future Plans**

* Enhance the Posts API with more features, such as tagging and comments.
* Implement automated testing for new features to speed up the QA process.
* Feedback
* Positive reception of the user-friendly authentication process.