**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.

**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**

* Add User Private Messaging to foster user communication.
* Implement a dark theme UI for user preference and accessibility.
* Start the Serverless Framework for an ML project on animal image recognition.
* Research and develop a model for effective dog classification.
* Address ML model bugs for improved performance.
* Expand admin features for user management and profile integration.
* Enhance user experience with new posting and dashboard features, including a search engine.