**Sprint Report for Sprint 2**

**Overview**

Sprint 2 propelled the application forward by integrating advanced user features and technological foundations. This sprint focused on enhancing user engagement through User Private Messaging, implementing a UI dark theme for better accessibility, and beginning work on a serverless ML project for animal image recognition, among other significant developments.

**Objectives**

* Integrate User Private Messaging for enhanced user-to-user communication.
* Implement a dark theme across the UI for improved user experience and accessibility.
* Begin the Serverless Framework setup for the ML project focused on animal image recognition.
* Research and develop an efficient ML model for pet classification.
* Address and optimize performance issues related to the ML model.
* Expand backend and frontend functionalities for Admin User Management and User Profile integration.
* Enhance the platform with User Searching capabilities and new Post, View Post, & Dashboard features.
* Integrate a search engine for posts to facilitate content discovery.

**Achievements**

* All of the objectives were successfully met, including the integration of User Private Messaging, the implementation of a dark theme UI, the initiation of the Serverless Framework for the ML project, among others, significantly enhancing the platform's functionality and user experience.

**Key Learnings**

* The importance of early and continuous testing, particularly with complex integrations like ML models and serverless architecture.
* The value of user feedback in refining new features, such as the dark theme UI, to ensure they meet user needs and preferences.

**Conclusion**

* Sprint 2 culminated in a period of significant growth and innovation, successfully bringing the project to completion. The team overcame numerous challenges to integrate advanced features and technologies, substantially enhancing the platform's functionality and user experience. These achievements not only highlight the team's technical skill but also their commitment to creating a user-focused product.