Non-Functional Requirements

GENERAL CHARACTERISTICS

Author   Anirudh Bagde, Rupin Bhalla, Catherine Ta
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Scope   Backend of HypeU event discovery service
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INTRODUCTION

This document is the repository of four non-functional requirements not captured in the use cases, which include:
1. Security of user data
2. Accessibility to wide range of clients
3. Flexibility of models
4. Performance of queries

FUNCTIONALITY

1. **Ensure security of user data**
   Our service should ensure user data is both stored securely and transmitted securely. Data transferred between the backend and clients should be sent over an encrypted channel. On the server, passwords should be stored with adequate hashing. In general, measures should be taken to ensure users can't modify data they don't have permission for.

SUPPORTABILITY

2. **Accessibility to wide range of clients**
   The backend should work for both mobile and web clients. This could include push notification support for different platforms. Making it accessible to web also means implementing a backend API that is easy for web clients to access.

3. **Flexibility of models**
   The backend should be flexible for future requirements/updates. In order for the backend to easily extend or modify to existing features, we will utilize a RESTful architectural style.

PERFORMANCE

4. **Performance of queries**
   Each query that is needed should be efficient. We don't want the queries to take a lot of time and space. All the queries should be designed to be scalable as well, in order to easily adapt as the number of organizations, events, and users increase.