

System Requirements Specification

Digital Entrepreneurship

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1 Functional Requirements

- Users should be able to create an account, and login with a username and password.
- Users with administrative rights should be able to create questions, assign tags to those questions, and dictate the answers to those questions.
- Users with administrative rights should be able to create surveys, and control when users can view and/or take those surveys.
- Users should be able to take surveys (one or more times). The results of those surveys should be stored in the database. If a survey is retaken, the results will be overwritten and/or averaged.
- Users should be able to add other users as friends, view their profiles, as well as information about future, past, and current activities or availabilities.
- Users should be able to add other users to a date group; and request an optimal activity (if surveys are required to be completed the users will be notified).
- Users should be able to explore activities that are planned, and/or being planned in their areas as well as requesting admittance to the group.

2 Non-Functional Requirements

- Our mobile application will be created using the Xamarin forms framework (xaml, and C#), the app should function on Ios, and Android systems alike and downloadable from the respective app stores.
- Survey, and user preferences data will be housed in a SQLServer database on a remote server (we will utilize SQLite for local user storage).

- The recommendation system should support groups of one or many users in a variety of categories, and should be programmed in python (PyTorch, Scikit-learn, Pandas, etc).
- Our system should support 20,000 concurrent users, and offer an average response time of approximately 3 seconds (scalable for more users).
- Our system will support English speaking Users only.
- The system will securely store user passwords, and sensitive information.