Software Requirements Specification

For

Finding a Partner

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| --- | --- |
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| **Cycle:** | CI-102-068-Week 3 |
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Grading Rubric - Requirements Specification

This rubric outlines the grading criteria for this document. Note that the criteria represent a plan for grading. Change is possible, especially given the dynamic nature of this course. Any change will be applied consistently for the entire class.

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| --- | --- | --- | --- | --- |
| **Achievement** | **Minimal** | **Exemplary** | **Pts** | **Score** |
| **Content (80)** | Section(s) missing, not useful, inconsistent, or wrong. | Provides all relevant information correctly and with appropriate detail |  |  |
| Introduction  Scope  Definitions |  |  | 10 |  |
| User Profile |  |  | 20 |  |
| Functional Requirements |  |  | 30 |  |
| Performance & Design Requirements |  |  | 10 |  |
| Data Requirements |  |  | 10 |  |
| **Writing (20)** |  |  |  |  |
| Grammar and Spelling | Many serious mistakes in grammar or spelling | Grammar, punctuation, and spelling all correct | 10 |  |
| Expression | Hard to follow or poor word choices | Clear and concise. A pleasure to read | 5 |  |
| Tone | Tone not appropriate for technical writing | Tone is consistently professional |  |  |
| Organization | Information difficult to locate | All information is easy to find and important points stand out | 5 |  |
| Layout | Layout is inconsistent, visually distracting, or hinders use | Layout is attractive, consistent, and helps guide the reader |  |  |
| **Late Submission** |  |  | -10  -25 |  |
| **Total** |  |  | 100 |  |

## Scope

Our product is a web-based application that allows users to find other users for events such as basketball games, parties, etc. The app will users up with other users based on similar interests in events and thereby help increase networking among people. Our target audience will be specifically Drexel students, allowing students to meet up with other students they have never met before.

## Definitions, Acronyms, and Abbreviations

The acronym for find a partner will be F.A.P.

## User Profile

Our group had in mind that we would like to specifically target Drexel students. Freshmen would potentially be the target of choice as it would allow incoming students to get to know each other easier but this website would also allow other non-freshman users to interact and meet new people.

# External Interfaces

## User Interface

On the main page of our website, there will be an interface which allows the user to choose a certain category(ies), which then would bring them to a page where the user can freely choose the preference they are looking for. The page would then bring the user to another page with other users matching the preference and whatever the user picks, would connect them to an online private chat where the users can freely talk about the event.

## Data Interface

If users choose to log in through other social media accounts then the data such as name age and gender will be pulled from Facebook/Google/etc.

With permission, we will also be accessing Drexel’s student database. With the student database, we are able to create matches between users on our website using Drexel IDs, which is the main function of our app.

# Specific Requirements

## Functional Requirements

The statements below define the functional requirements for the system.

**1 - Login with other social media**

Users will be able to login into Find a Partner with their pre-existing social media accounts such as facebook, google etc.

**2 - Login with Drexel ID**

Since Find a Partner specifically aims to cater to Drexel’s campus, users will be able to login with their Drexel ID.

**3 - Event Discussion Board**

Users will be able to discuss events on the campus through a page which will have a similar format to Reddit(threads for events). Functionality will involve commenting, upvoting and thread moderation.

**4 - Direct Messaging**

Users will be able to have private encrypted direct message chats with other users they find on the platform.

**5 - Define Interests**

Users will be able to choose their interests and create custom interests to add to their profile.

**6 - Choose Events**

Users will be able to choose and add events to their own personalized calendars which will be public. Other people will be able to view those calendars and request to join the user on those events.

**7 - Matching Users**

Users will be matched with other users with similar interests by the Find a Partner algorithm. The user will then be able to choose from a list of potential buddies to go to an event with.

**8 - Create an Event**

Users will be able to create and publish events they know about to share with other people. Other users will be able to interact with this event through the discussion board. Features will include adding the event to their calendars, upvoting the event, commenting on the event etc.

**9 - Categories**

Users will be allowed to choose a type of event they want to attend from a list of categories.

**10 - Banning Users**

If users are found doing unethical activities, their accounts would be banned.

## Performance Requirements

**1 - Event Synchronization**

The website will update with its database every 5 minutes to keep track of the ongoing events and update them accordingly something gets added to this list or some event gets

**2 - Direct Messaging**

The direct messaging will be instantaneous and will allow the users to connect in real-time.

**3 - Loading Time**

The website will be fully loaded in less than 5 seconds. Optimizations will be made to the package to allow the user’s systems to render graphics/images faster.

## Design Constraints

### 1.Constraint: Find a partner will be an online platform in the form of web application.

Reason: The client wants the web application to be accessible by any user through a web browser and doesn't want to ship the product as a mobile application specifically for a platform(android or ios)

2.Constraint: Find a partner will support displaying content on a mobile browser through flexible containers and collapsible menu bars

Reason: The client wants the users to be able to access the website in a feasible manner from their mobile devices since services like direct messaging and event tracking are remote services.

## Data Requirements

**1 - User Profiles**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Size** | **Comment** |
| First Name | String | 16 Characters | First Name of the user |
| Last Name | String | 16 Characters | Last Name of the user |
| Gender | String | Dropdown | Users can define their gender |
| Age | Integer | 3 character | Age |
| Unique ID | Integer | 8 digit ID | Unique id assigned to profile generated by website algorithms |
| Image | String | No Limit | URL to image thumbnail |
| Description | String | 200 Characters | A short description of the user |
| Interests | String Array | No Limit | An array of all the interests the user has defined for themselves. |

**2 - Events**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Size** | **Comment** |
| Name | String | No Limit | Name of the event |
| Location | String | No Limit | Name of the location |
| Image | String | No Limit | Image from Google Maps of the location |
| Description | String | 400 Characters | Short description of the event |

**3 - Messaging**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Size** | **Comment** |
| Chats | String | No Limit | Storing all chat messages. |