**Product Backlog**

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**Problem Statement:**

Are you afraid of getting to know new people? Do you find that your nerdy interests are a deal-breaker in your love life? Then this service is for you. Using our comprehensive matchmaking system you too can find someone who shares the same nerdy interests that you do. Find people with similar nerdy interests, such as gaming(video and tabletop), anime, books, sci-fi, fantasy, etc. Once we have found a match for you, you can contact and get to know.

**Background Information:**

**Audience**

Nerds who are having trouble finding relationships.

**Domain**

While most dating website matches user based on many different ideas, there are not many that match users based on all of the different interests different “nerds” have. This webapp will look into matching users by these interests and hopefully better match different users, more than sites like eHarmony could.

**Limitations**

While it would be nice to use machine learning methods to match people together and make it more accurate we will probably not be able to use that process. We will not be able to use this as getting enough data. Without enough data doing it this way will probably be just as good as randomly guessing.

**Environment:**

For the environment we will use node.js as we have a lot of past experience with it to host the server. We would like to use mysql to store the information in a database. We will use CSS, Javascript, and HTML to run the web page.

**Requirements (Backlog):**

**Functional:**

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| --- | --- | --- | --- |
| **Backlog ID** | **Functional Requirements** | **Hours** | **Status** |
| 1 | As a user, I would like to be able to create an account with a password | 5 | Sprint 1 |
| 2 | As a user, I would like to be able to edit my password. | 5 | Sprint 1 |
| 3 | As a user, I would like to select my preferences. | 15 | Sprint 1 |
| 4 | As a user, I would like to view my preferences. | 15 | Sprint 1 |
| 5 | As a user, I would like to be able to edit my preferences. | 15 | Sprint 2 |
| 6 | As a user, I would like to be able to see a list of possible matches | 25 | Sprint 2 |
| 7 | As a user, I would like to be able to chat with my matches | 20 | Sprint 2 |
| 8 | As a user, I would like to have a profile picture | 5 | Sprint 1 |
| 9 | As a user, I would like to edit my profile picture | 5 | Sprint 2 |
| 10 | As a user, I would like a way to make sure only matches can message me because I do not want everyone messaging me. | 20 | Sprint 2 |
| 11 | As a user, I would like to block users that I am not interested in. | 5 | Sprint 2 |
| 12 | As a user, I would like to have a way to find matches within a certain distance of me. | 15 | Sprint 2 |
| 13 | As a user, I would like to find matches that speak the same language(s) that I know. | 10 | Sprint 2 |
| 14 | As a user, I would like to update my status so I don’t get my matches when I am in a relationship. | 5 | Sprint 2 |
| 15 | As a user, I would like to answer compatibility questions so the system can find me a better match | 10 | Sprint 2 |
| 16 | As a user, I want to be notified when I receive a message | 5 | Sprint 2 |
| 17 | As a user, I want to find matches that are within a certain range of ages | 2 | Sprint 2 |
| 18 | As a user, I want to find matches that are at least 18 years old | 2 | Sprint 2 |

**Non-Functional:**

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| --- | --- | --- | --- |
| **Backlog ID** | **Non-Functional Requirements** | **Hours** | **Status** |
| 1 | As a user, I would like the match algorithm to match me to someone closest to me my preferences. | 30 | Sprint 2 |
| 2 | As a user, I would like a fast response time for website. | 10 | Sprint 1 |
| 3 | As a user, I want my information to be secured. | 10 | Sprint 1 |
| 4 | As a user, I would like to have an easy to use user interface . | 5 | Sprint 1 |

**Use Cases:**

**Backlog ID 1:** As a user, I would like to be able to create an account with a password

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| --- | --- |
| Action | System Response |
| User clicks “Create an Account” | Open webpage to create an account |
| The user fills out all information in the create account form | The system does nothing until the user hits submit |
| The user clicks submit | Server will save information in sql database |

**Backlog ID 2:** As a user, I would like to be able to edit my password.

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| --- | --- |
| Action | System Response |
| Click edit personal Profile | Open web page to edit personal info |
| Clicks Change password | Dialogue box opens to allow user to edit old password |
| User enters old and new password | Nothing happens until the user clicks “confirm”. The characters of the password should be displayed as asterisks. |
| User clicks Confirm | Server checks to see if the old password is correct. If it is, then the old password is overwritten with the new password in the database. Passwords will not be stored in plaintext format. |

**Backlog ID 3:** As a user, I would like to select my preferences.

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| --- | --- |
| Action | System Response |
| After User Creates an account(Backlog ID 1) user will be redirected to page to edit preferences. | Open web page to edit personal info |
| User fills out preferences | Nothing changes until “save” is clicked |
| User clicks save changes | Server saves changes made |

**Backlog ID 4:** As a user, I would like to view my preferences.

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| --- | --- |
| Action | System Response |
| Click edit personal Profile | Server will search sql database for user preferences, and then create a webpage to send to the user. The web page will allow the user to view and edit their profile information. |
| User views and edits profile information | Nothing will happen until the user clicks “submit” |
| User clicks “submit” | The information in the database will be updated to reflect the changes made. |

**Backlog ID 5:** As a user, I would like to be able to edit my preferences.

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| Action | System Response |
| Click edit preferences | Open web page to edit preferences |
| User will change the preferences. | Nothing happens until the user clicks “submit” |
| User clicks submit | Server will change to updated preferences. |

**Backlog ID 6:** As a user, I would like to be able to see a list of possible matches

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| Action | System Response |
| Click on home page or login | Server will pull top matches and pull on pages |
| User can view top matches |  |

**Backlog ID 7:** As a user, I would like to be able to chat with my matches

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| Action | System Response |
| Click on Inbox on home screen | Open web page to all received messages |
| Click on user you would like to chat with | Loads messages from user and display a textbox for typing in |
| User clicks “send message” | The message in the textbox will be sent to the recipient. The send message will be visible to both the sender and the receiver, like in a chat room. |

**Backlog ID 8:** As a user, I would like to have a profile picture

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| Action | System Response |
| After user saves preferences user will get chance to add a image | Load webpage to allow user to select image |
| User selects add an image | Dialogue comes up that allows the user to add a image from file |
| User selects image | A confirmation box will appear, asking if the user is sure they want to use this image. |
| User hits confirm | Image is saved in Backend for use with profile. |
| User dismisses confirm box | The confirmation box disappears and no changes are made. The user is left with a default image. |

**Backlog ID 9:** As a user, I would like to edit my profile picture

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| Action | System Response |
| User clicks “edit profile” | User is taken to the edit profile page |
| User clicks “change profile picture” | A file browser appears, allowing the user to browse their computer for an image |
| Users selects image | A confirmation box appears, asking if they’re sure they want to use that image |
| User hits confirm | The selected image is uploaded and saved to the server, replacing the old one. |
| User dismisses confirm box | Nothing is changed, profile picture remains the same. |

**Backlog ID 10:** As a user, I would like a way to make sure only matches can message me because I do not want everyone messaging me.

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| Action | System Response |
| User clicks “edit preferences” | User is taken to the edit preferences page |
| User checks/unchecks “only allow messages from matches” | Nothing happens until user clicks “save” |
| User clicks “save” | The setting is changed in the server. If checked, the user can only receive messages from people they were matched with. If unchecked, any user can send them a message. |

**Backlog ID 11:** As a user, I would like to block users that I am not interested in.

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| Action | System Response |
| User opens the profile page of another user | Open web page with person profile on it |
| Click block user | Dialogue comes up to have you confirm. |
| User Confirms | All messages from the blocked user will be ignored. The user will appear to be offline to the blocked user. |

**Backlog ID 12:** As a user, I would like to have a way to find matches within a certain distance of me.

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| Action | System Response |
| User opens the personal preferences page. | Open web page that allows user to edit |
| Select “limit by location” | Prompts user to enter where they live and a maximum distance for matches. |
| User enters location and distance | Nothing happens until the user clicks “save” |
| Click Save | Will update server to know only search within a certain distance. |

**Backlog ID 13:** As a user, I would like to find matches that speak the same language(s) that I know.

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| Action | System Response |
| User opens personal preferences page | Open web page that allows user to edit |
| Select limit by language | Open a form to let the user specify a language |
| Enter Language. | Nothing happens until the user clicks “confirm” |
| Click confirm | Will update server to know only find matches with certain languages |

**Backlog ID 14:** As a user, I would like to update my status so I don’t get my matches when I am in a relationship.

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| Action | System Response |
| Click edit personal profile | 2. Open web page that allows user to edit personal profile |
| Click “relationship status” | Dialogue box opens, allowing the user to choose between “available” or “taken”. |
| User selects “available” or “taken” | Nothing happens until the user clicks “save” |
| Click Save | Updates the relationship status on the server. If “taken” is selected, the user will no longer be suggested as a match for other users. If “single” is selected, the user will start appearing as a potential match again. |

**Backlog ID 15:** As a user, I would like to answer compatibility questions so the system can find me a better match

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| Action | System Response |
| Click “Answer compatibility questions” | Take user to the survey page. A question will be selected from a list and displayed to the user. |
| User selects an answer to the question | Server saves the answer in a database. The backend will use the answers to these questions to determine compatibility between two users.  The user is given another question to answer. |

**Backlog ID 16:** As a user, I want to be notified when I receive a message

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| Action | System Response |
| User receives a message from another user | A notification icon appears on the recipient’s screen, displaying the number of unread messages |
| User clicks on the notification icon | The user is taken to their inbox. The number of unread messages is reset to 0. |

**Backlog ID 17:** As a user I want to find matches that are within a certain range of ages

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| Action | System Response |
| User sets an age range in their preferences | Nothing is done until user hits submit |
| User clicks submit | Users that can be matched are filtered by given age range |

**Backlog ID 18:** As a user I want to find matche that are at least 18 years old

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| Action | System Response |
| When User creates account they are asked for their birthdate | System does nothing until user hits submit |
| User clicks submit | System checks if age if > 18 and either accepts or rejects account accordingly. |