

High Level Requirements for LionPals

1. The Friend Finder service will include a web interface using a Web View, but must be flexible enough to implement alternative front-end Views.
2. The User must be able to access Friend Finder via the most popular web browsers.
3. If the User is not signed-in when accessing the website, the Welcome Page will be displayed in the web browser.
4. The User must be able to create a User Account so that they can login the next time they visit the site.
 - a. From the Welcome Page, the User must go to the Signup Page to create a User Account.
 - b. The system must maintain a list of User Accounts in the User Account Set.
 - c. When creating a User Account, the User must give a valid E-mail Address, Username, and Password.
 - d. When logging-in, the User's E-mail Address and Password must be matched against the E-mail Address and Password stored in the User Account Set.
 - e. The User must be able to change their account details on the Account Details Page.
5. The system must be able to provide friend recommendations based on both the User's Degrees List and the User's Interest List specified in the User Account.
 - a. The User must update their User Account with a major and interests before being shown friend recommendations.
 - b. Friend recommendations will be generated by using an AI Service to compare the User's major and interests with the majors and interests of other Users in the account list.
6. The system must maintain a Friends List, a Dismissed List, and a Recommendations Queue for each User.
 - a. The User must be able to view their Friends List on the Friends Page.
 - b. The User must be able to view their friend recommendations from the Recommendations Queue on the Recommendations Page.
 - c. Other Users in the User's Dismissed List should not be shown as future friend recommendations.
7. On the Recommendations Page, the User must be able to approve or dismiss the given recommendations.
 - a. Recommendations that are approved are added to the User's Friends List.
 - b. Dismissed recommendations must be added to the User's Dismissed List.

Title: Project Glossary

Group Name: LionPals

- **View** - An interface for interacting with the User.
- **Web View** - A web server View for interacting with the User on the web.
- **Signup Page** - A Web View for the *create an account use case*.
- **Login Page** - The Web View that both begins User interaction and determines the identity of the User; it is an interface for the *login use case*.
- **User Friends Page** - A personalized Web View of the User's accepted friends from the User Recommendation Queue.
- **Recommendations Page** - A personalized Web View of the Recommendation Entries from the User Recommendation Queue; it is an interface for the *recommend friends use case*.
- **User** - An entity which is the source of all events on a View.
- **User Account** - A collection of data from the User.
- **User Account Set** - A collection of all User Accounts maintained by the system which is used for authentication purposes.
- **User Interest List** - A collection of academic interests declared by the User and maintained in a User Account.
- **User Degree List** - A collection of academic degrees declared by the User and maintained in a User Account.
- **User Recommendation Queue** - A prioritized queue of User Accounts generated by the AI Service.
- **Recommendation Entry** - A View for interacting with elements of a User Recommendation Queue.
- **User Friend List** - A collection of User Accounts which are elements of the User Approved Recommendation List for the User Account and which have the owner of the User Friend List as an element of the User Approved Recommendation List in the other User's User Account.
- **User Approved Recommendation List** - A collection of User Accounts for which the User has approved a Recommendation Entry.
- **User Dismissed Recommendation List** - A collection of User Accounts for which the User has denied a Recommendation Entry.
- **AI Service** - The source of all modifications to the Recommendation Queue; it provides data analytic services on the User Account Set.
- **AI Trainer** - An interface for interacting with the AI Service.
- **E-mail Address** - A unique alphanumeric identifier for a User Account which corresponds to a Pennsylvania State University entity.
- **Password** - A User privately known secret which derives a shared secret between the system and the User.
- **E-mail Address Field** - A specific interface element for collecting information pertaining to the E-mail Address of a User.
- **Password Field** - A specific interface element for collecting information pertaining to the Password of a User.

- **Signup Button** - A specific interface element for capturing the intent of the User to commit valid personal information to the system in the *create account use case*.
- **Login Button** - A specific interface element for capturing the intent of the User to commit personal information to the system in the *login use case*.
- **Account Details Link** - A specific interface element for capturing the intent of the User to invoke the *change account details use case*.
- **Degrees Text Box** - A specific interface element for collecting information pertaining to the contents of the User Degrees List for a User Account.
- **Interests Text Box** - A specific interface element for collecting information pertaining to the contents of the User Interests List for a User Account.
- **Save Button** - A specific interface element for capturing the intent of the User to commit personal information to the system in the *change account details use case*.
- **“Character Limit Exceeded in Degrees” Error Message** - A specific error message displayed as the result of invalid input into the Degree Text Box in the *change account details use case*.
- **“Character Limit Exceeded in Interests” Error Message** - A specific error message displayed as the result of invalid input into the Interests Text Box in the *change account details use case*.
- **Database** - A data structure that allows for information to be stored reliably.
- **Remove Friend Button** - A specific interface element for capturing the intent of the User to remove an entry from the User Friends List.
- **Confirmation Prompt** - An interface element for verifying the intent of an action performed by the User.
- **Approve Button** - A specific interface element for capturing the intent of the User to add an entry to the User Approved Recommendation List.
- **Recommend Friends Link** - A specific interface element for capturing the intent of the User to invoke the *recommend friends use case*.

Title: Domain Model
Group Name: LionPals

