**Software Requirements Specification For**



***LS-PAC MODELS Mentor-Mentee Matching Application***

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1. **Introduction**

**1.1 Purpose**

CONNECT is an application developed for LS-PAC-MODELS. It is created with the purpose of creating a platform for collegiate students of all manner and professors to connect through mentorships. This is the first released version of this document and describes the app in its entirety.

**1.2 Document Convention**

Conventions for this document are constrained to basic SRS document constraints. Every requirement will be separated with its own priority and features without a hierarchical design.

**1.3 Intended Audience and Reading Suggestions**

This document is intended for developers, team members, clients, and instructors involved. For each of these readers, the functional and non-functional requirements will be laid out into tables with references to all other connected requirements. Reading is suggested to get the overall scope of the project through the ‘Overall Description’ section then move into the functional and nonfunctional requirement tables.

**1.4 Product Scope**

CONNECT is a matching application that streamlines mentor/mentee relationships by providing a platform where mentors and mentees can match based off of areas of expertise and interests. Conventionally, mentor/mentee relationships are established through email or in person. This application will remove the burden of searching for mentors through different sources and allocate it to a single application.

**1.5 References**

References used in the SRS document include the revised IEEE Recommended Practice for Software Requirements Specification Std 830-1993 from the Software Engineering Standards Committee of the IEEE Computer Society. Additionally, class examples from LSU CSC 4330 include Use-Case diagrams and requirements tables.

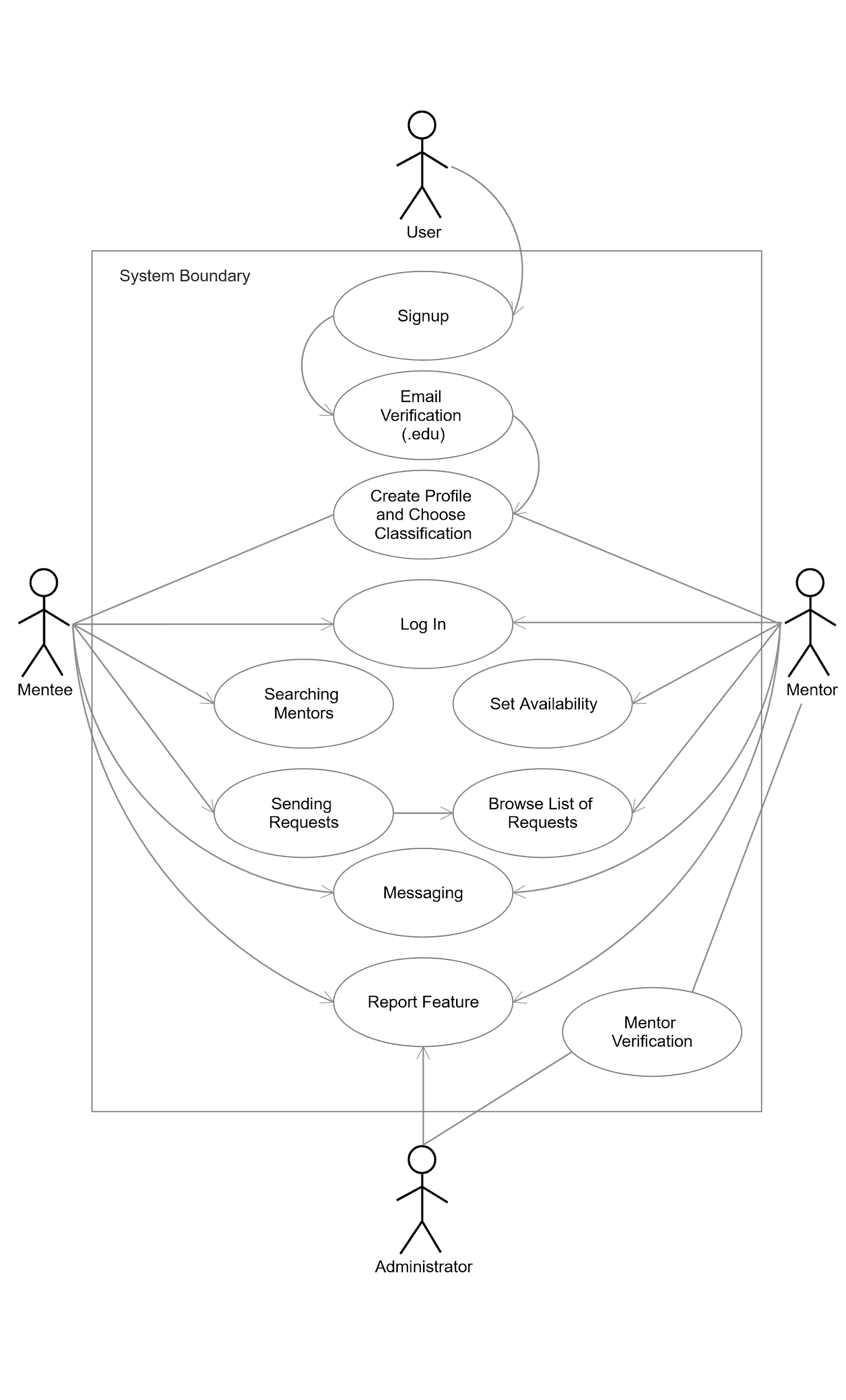
1. **Overall Description**

**2.1 Product Perspective**

CONNECT is a new, self-contained product that is being developed alongside a web page (in a separate project) that is predicted to combine after an application demo is completed. This SRS document will only cover the application side and define constraints and requirements for the mobile development.

**2.2 Product Functions**

Major functions of CONNECT are shown below in a Use-Case Diagram. This diagram shows the general features from top to bottom. After verification, a User completes their profile and chooses classification of Mentee, Mentor, or both.

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**2.3 User Classes and Characteristics**

The users of CONNECT consists of members of academia such as undergraduates, graduate, post doctoral, and professors. A user with an edu email is able to sign-up and use the application. There are two types of users, mentors and mentees. A mentor requires to be verified to be able to mentor a mentee. A mentee will use the application to search for potential mentors in a specific field and interest. A mentee does not require any other verification other than signing up with an edu email.

**2.4 Operating Environment**

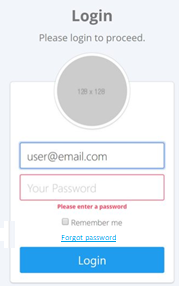
CONNECT will operate on both Android and iOS current updates. They will communicate with a back end web database using SQL to store information.

**2.5 Design and Implementation Constraints**

CONNECT is developed using the Xamarin platform which is an open-source platform for building modern and performant application for iOS and Android with .NET. Time is also a large constraint for this project, as a single semester for this demo will limit many options for stretch goals. CONNECT is a project being developed for a state organization, this may add legal constraints and security constraints to protect collected data and sensitive information.

**2.6 Assumptions and Dependencies**

In the use-case tables, if an event doesn’t have ‘optional’ in parentheses beside it, then the event is assumed to be required.



1. **External Interface Requirements**

**3.1 User Interfaces**

CONNECT will support a basic sign up and log in page with a ‘forgot password?’ button as shown in the right. After this, the user with a unique role will have the following main pages to navigate :

1. Either a page to search and request mentors (for mentees) Or a page to browse and then accept or reject requests (for mentors) [(but not both)]
2. A page listing current mentors or mentees
3. A messaging page once a mentor/mentee is chosen
4. A profile/account page to change your own information

The users with a dual role will have to select their role after login and will have the corresponding pages enlisted above for each role.

1. **System Features**

**4.1 Sign In/Sign Up**

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| **Item** | **R 4.1.1 User Logs into the App** |
| **Summary** | User enters their credentials into the app to log in. |
| **Rationale** | User must authenticate themselves before being able to access the app. |
| **Users** | * Mentors * Mentees |
| **Preconditions** | * App is open. * User has already created an account. (R 4.1.2) * User has verified their edu email. (R 4.1.3) * User is not already logged in. |
| **Basic course of events** | * User enters their email into the email text box. * User enters their password into the password text box. * User taps the ‘Log In’ button. * User is taken to the main page if their credentials are valid. * After two attempts to log in incorrectly, the app will prompt the user asking ‘Forgot your password?’. * If the password is entered incorrectly seven times, the account is timed out for fifteen minutes. |
| **References** | R 4.1.2, R 4.1.3 |
| **Priority** | High, except the prompts and the locking out sub feature, which is medium priority |

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| **Item** | **R 4.1.2 Sign up** |
| **Summary** | User enters edu email, picks a password to sign up for the app and enters personal information and preferences. |
| **Rationale** | Users must create an account and be verified before being allowed to use the application. |
| **Users** | * Mentees * Mentors |
| **Preconditions** | * App is open. * User is not already logged in. * User does not already have an account associated with their edu email. |
| **Basic course of events** | * User clicks the ‘Sign Up’ button. * User enters edu email in the email field. * User picks a password. * Password should be at least 8 characters long and have at least one alphabet, one number and one special character. * If password doesn’t meet these requirements, an error message will be shown both when they leave the text box and when they click sign up, * User is prompted to enter First and Last name and affiliation. * User clicks ‘Complete Sign up’ field and receives an email in their edu inbox for verification. * User verifies email. (R 4.1.3) * User chooses their designation as mentee or mentor or both. * User fills out their mentee profile, if chosen. (R 4.1.6) * User fills out their mentor profile, if chosen. (R 4.1.5) |
| **References** | R 4.1.3, R 4.1.5, R 4.1.6 |
| **Priority** | High |

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| **Item** | **R 4.1.3 User Verification** |
| **Summary** | User verifies their email. |
| **Rationale** | User must validate their edu email to ensure only people affiliated with a university are able to sign up. |
| **Users** | * Mentees * Mentors |
| **Preconditions** | * User has clicked ‘Complete Sign Up’ using their edu email. (R 4.1.2) |
| **Basic course of events** | * User will be sent an email at their edu address containing a unique verification code. * User will enter this code on a verification page. * If the user enters an incorrect code, then an error message ‘Code Incorrect’ will be displayed and will be asked ‘Send another verification email?’ by the system. * Otherwise, User will be shown a page on the app confirming they have been verified. |
| **References** | R 4.1.2 |
| **Priority** | High |

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| **Item** | **R 4.1.4 Forgot Password** |
| **Summary** | User resets their password. |
| **Rationale** | Users must have a way to securely reset their password in case they forget it. |
| **Users** | * Mentees * Mentors |
| **Preconditions** | * App is open. * User has a verified account. (R 4.1.2, R 4.1.3) |
| **Basic course of events** | * User clicks forgot password function. * User enters email associated with their account. * User is sent an email containing a temporary password which expires after 24 hours. * User uses the temporary password to login. * User is taken to a password reset page to create a new password. * User enters a new password twice (to check against typos). * User clicks reset password button. * If both the passwords match with each other and satisfy the requirement of having 8 characters with at least one alphabet, one number and one special character, ‘Password Successfully Changed’ is displayed. * Otherwise, the user is reminded of the password requirements and is prompted to pick a password again. |
| **References** | R 4.1.2, R 4.1.3 |
| **Priority** | Medium |

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| **Item** | **R 4.1.5 Mentor Completes their Profile** |
| **Summary** | Mentor fills out their profile. |
| **Rationale** | Users must have a profile with accurate information in order to be matched effectively. |
| **Users** | * Mentors |
| **Preconditions** | * App is open. * User is logged in. * User has been verified. (R 4.1.3) * User has chosen their designation as a mentor. |
| **Basic course of events** | * User sets a profile picture. (optional) * User selects gender:   + Male   + Female   + Other   + Prefer not to answer * User selects their position:   + Undergraduate (Junior)   + Undergraduate (Senior)   + Graduate Student   + Postdoctorate   + Professor * User adds a short bio/about description. * User sets at least one area of expertise, options include:   + Departments   + Transition into college   + Supporting women in STEM   + Minority advancement   + General college guidance * Mentor profile is now available to admin to be verified. (R 4.1.7) |
| **References** | R 4.1.1, R 4.1.3 |
| **Priority** | High |

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| **Item** | **R 4.1.6 Mentee Completes their Profile** |
| **Summary** | Mentee fills out their profile. |
| **Rationale** | Users must have a profile with accurate information in order to be matched effectively. |
| **Users** | * Mentees |
| **Preconditions** | * App is open. * User is logged in. * User has been verified. (R 4.1.3) * User has chosen their designation as a mentee. |
| **Basic course of events** | * User is prompted to pick area(s) of interest (between 1 and 7). Options include:   + Departments (at LSU for example)   + Concentrations   + College guidance   + Advancement for minorities   + Advancement for women * User selects gender. (Required, but not shown on mentee profile)   + Male   + Female   + Other   + Prefer not to answer * User selects their position:   + Undergraduate (Freshman)   + Undergraduate (Sophomore)   + Undergraduate (Junior)   + Undergraduate (Senior)   + Graduate Student * User sets a profile picture. (optional) * User adds a short bio/about. (optional) |
| **References** | R 4.1.1, R 4.1.3 |
| **Priority** | High |

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| **Item** | **R 4.1.7 Mentor Verification** |
| **Summary** | Mentors get verified by an administrator. |
| **Rationale** | Mentors must be verified by an administrator to prevent abuse and verify the mentor’s eligibility. |
| **Users** | * Mentors * Administrator |
| **Preconditions** | * App is open. * User has a verified account. (R 4.1.2, R 4.1.3) * User has selected that they would like to be a mentor when filling out their profile. (R 4.1.2) * User has completed their mentor profile. (R 4.1.5) |
| **Basic course of events** | * Administrator reviews the account and verifies with the mentor’s university that their profile matches the email they used. * Mentor is now available to set their availability to accept requests for mentorships. (R 4.3.1) |
| **References** | R 4.1.2, R 4.1.3, R 4.3.1 |
| **Priority** | Low |

**4.2 - Searching for Mentors**

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| **Item** | **R 4.2.1 Set Search Parameters** |
| **Summary** | Mentee sets various filters/parameters to get a pool of possible mentors to send requests to. |
| **Rationale** | Mentees need to be able to search for the type of mentor that will help them. |
| **Users** | * Mentees |
| **Preconditions** | * App is open and User is logged in. (R 4.1.1) * User has a verified account and chosen to be a mentee. (R 4.1.2, R 4.1.3) |
| **Basic course of events** | * User clicks 'Search for Mentors' button. * User gets the option of applying the following filters to the search:   + *Position (can select multiple):*   Options include all possible positions of the mentors.  (Default : All possible mentor positions)     * + *Gender (can select multiple):*   Options include all possible genders of the mentors.  (Default : Mentors of all genders)   * + *Department/Area of expertise (can select multiple):*   Options include all possible departments/areas of the mentors.  (Default : If user has a complete profile, then Mentors with areas of expertise corresponding to the user’s interests. Else, Mentors in all possible departments)   * User clicks the 'Search' button to get the search results according to the set filters. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3 |
| **Priority** | High |

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| **Item** | **R 4.2.2 Browsing Mentors** |
| **Summary** | Mentees scroll through mentor profiles. |
| **Rationale** | Mentees need to be able to select which mentors they would like to have. |
| **Users** | * Mentees |
| **Preconditions** | * User has logged into their account. (R 4.1.1) * User has a verified account and has chosen to be a mentee. (R 4.1.2,R 4.1.3) * User has clicked 'Search' to get the search results according to the set filters. (R 4.2.1) |
| **Basic course of events** | * The system displays profile summaries of the mentor options (including picture, if available and mentor area of expertise and position). * User can select a profile summary. * If User selects a profile summary, the system will display the full profile (includes gender and short bio). * If the system has no mentors to show the user, it displays the message ‘No results available, please change your search options.’ * If the system has shown the user some mentors and has no more to show it displays the message ‘No more results available, please change your search options to see more mentors.’ |
| **References** | R 4.1.1, R 4.1.3 |
| **Priority** | High |

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| **Item** | **R 4.2.3 Sending Mentor Request** |
| **Summary** | Mentees request a mentor relationship. |
| **Rationale** | Mentees need to be able to send requests to the mentors they think would help them. |
| **Users** | * Mentees |
| **Preconditions** | * App is open and User is logged in. * User has a verified account and has chosen to be a mentee. * User has completed profile. (R 4.1.6) * User has got search results after setting up the parameters for search. (R 4.2.1) * User has selected a mentor profile summary. |
| **Basic course of events** | * User clicks 'Send Request' button on the selected mentor profile. * If the User has not completed their profile, they are prompted to complete it. (R 4.1.6) * User is prompted to include an optional message with a limit of 150 characters along with the request. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3, R 4.2.1, R 4.2.2 R4.1.6 |
| **Priority** | High |

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| **Item** | **R 4.2.4 Deleting Requests** |
| **Summary** | A mentee can delete a mentor request. |
| **Rationale** | A User can change their mind of a mentor request that was previously sent. A User should be able to delete a request. |
| **Users** | * Mentee |
| **Preconditions** | * App is open and the User is logged in (R 4.1.1) * User has a verified account and has chosen to be a mentee. (R 4.1.2, R 4.1.3) * A request has been sent. (R 4.2.3) |
| **Basic course of events** | * A User can look at a list of requests that’s been sent to mentors. * Each request has a delete request option. * User clicks on 'Delete Request'. * User will no longer show up on the mentor’s list of requested mentorships as well as in the list of requests of the user. |
| **References** | R 4.1.1, R 4.1.2, R 4.2.3 |
| **Priority** | Medium |

**4.3 Mentor Features**

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| **Item** | **R 4.3.1 Mentor Sets Availability** |
| **Summary** | Mentor makes themselves available/unavailable to accept requests for mentorship. |
| **Rationale** | Mentors should be available to set their availability for mentorship. |
| **Users** | * Mentors |
| **Preconditions** | * App is open and the User is logged in (R 4.1.1) * User has a verified account and has chosen to be a mentor. (R 4.1.2, R 4.1.3) * User has a complete mentor profile. (R 4.1.4) * User has completed mentor verification. (R 4.1.7) |
| **Basic course of events** | * If User’s profile is visible to students, they can click an ‘unavailable’ button to hide their profile from mentees. * If User’s profile is not visible to mentees, they can click an ‘available’ button and the system will show their profile to students provided the number of mentees in the match list of the user is less than their set maximum number of mentees. * User can change their maximum number of mentees (Default is 10 for professors, and 3 for graduate students, postdocs, and undergrads.) Professors can choose any integer from #(mentees in their match list) to 30, all other mentors can choose #(mentees in their match list) to 3. * Mentor clicks 'Save'. * The system updates the user’s availability, that is, if the number of mentees in the match list of user is equal to the set maximum number of mentees, then the user’s profile becomes unavailable and is hidden from searches. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3, R 4.1.4, R 4.1.7 |
| **Priority** | Medium |

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| **Item** | **R 4.3.2 Mentor Browses Requests** |
| **Summary** | Mentor scrolls through mentee requests. |
| **Rationale** | Mentors need to be able to decide which mentees would be a good fit for them. |
| **Users** | * Mentors |
| **Preconditions** | * User has logged into their account. (R 4.1.1) * User has a verified account. (R 4.1.2, R 4.1.3) * User has a complete profile. (R 4.1.5) * User has done mentor verification. (R 4.1.7) * User has received request for mentorship (R 4.1.1) |
| **Basic course of events** | * User is able to set a filter to either hide requests they have placed on hold, hide new requests, or show all requests. The default will be to hide requests that have been placed on hold. (R 4.3.5) * The system displays profile summaries of the mentees requesting mentorship along with a request message, if any. (Profile summary includes picture, position and other information if available i.e. if the mentor has included that in their profile set up.) * If User selects a profile, the system displays the entire profile information of the mentee. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3, R 4.1.4, R 4.1.7, R 4.3.3, R 4.3.4, R 4.3.5 |
| **Priority** | High |

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| **Item** | **R 4.3.3 Mentor Accepts Request** |
| **Summary** | Mentor accepts request. |
| **Rationale** | Mentors need to be able to select which mentees they would like to mentor. |
| **Users** | * Mentors |
| **Preconditions** | * User has logged into their account. * User has a verified account. * User has received request for mentorship. * User has selected a profile of the mentee requesting mentorship. |
| **Basic course of events** | * User has three options for the selected profile, that is, ‘Accept request’ and ‘Decline request’ and ‘Place request on hold’. * User clicks ‘Accept request’. * If User already has reached/attained their maximum number of mentees, the system gives the error message 'Maximum already reached’ and redirects the user to their set availability page (R 4.3.1) where they can increase their maximum number of mentees, if possible. * Otherwise, the request is accepted, the system adds the profile to the mentee list of the user, and adds the user’s profile to the list of mentors for the mentee. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3, R 4.1.4, R 4.1.7, R 4.3.1 |
| **Priority** | High |

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| **Item** | **R 4.3.4 Mentor Rejects request** |
| **Summary** | Mentor rejects a request from a mentee. |
| **Rationale** | Mentors need to be able to select which mentees they would like to mentor. |
| **Users** | * Mentors |
| **Preconditions** | * User has logged into their account. * User has a verified account. * User has a complete profile. * User has done mentor verification. * User has received request for mentorship. * User has selected a profile of the mentee requesting mentorship. |
| **Basic course of events** | * User has three options for the selected profile, that is, ‘Accept request’ and ‘Decline request’ and ‘Place request on hold’. * User clicks ‘Decline Request’ button. * The request is deleted from the user’s request list and the mentee is notified. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3, R 4.1.4, R 4.1.7, R 4.3.1 |
| **Priority** | High |

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| **Item** | **R 4.3.5 Mentor Places Requests on hold** |
| **Summary** | Mentor places mentee requests on hold for later. |
| **Rationale** | Mentors may not always be available to take on another mentor at the moment, but may not want to reject them entirely either. |
| **Users** | * Mentors |
| **Preconditions** | * User has logged into their account. * User has a verified account. * User has received request for mentorship. * User has selected a profile of the mentee requesting mentorship. |
| **Basic course of events** | * User has three options for the selected profile, that is, ‘Accept request’ and ‘Decline request’ and ‘Place request on hold’. * User clicks ‘Place request on hold’ button and sets a timer for when the hold will expire. * The request is removed from the user’s request list and placed in a hold list. * The system notifies the requesting Mentee. * When the hold expires, the Mentee will receive a notification and may choose whether to request that Mentor again. (R 4.4.3, R 4.2.3) |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3, R 4.1.4, R4.2.3, R 4.3.1, R 4.4.3 |
| **Priority** | High |

**4.4 General Features**

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| **Item** | **R 4.4.1 Messaging** |
| **Summary** | Users can message other Users once a mentor/mentee relationship has been established. |
| **Rationale** | A User should be able to message the mentor or mentee once a match has been established to begin the mentorship. |
| **Users** | * Mentor * Mentee |
| **Preconditions** | * App is open and the User is logged in. (R 4.1.1) * User has a verified account. (R 4.1.2, R 4.1.3) * User has a complete profile. (R 4.1.5, R 4.1.6) * Mentor user has completed verification. (R 4.1.7) * User has matches. |
| **Basic course of events** | * User clicks on a matched profile. * User clicks the ‘Message’ button. * The User is brought to a new chat page where messages with the selected match can be exchanged. * User can click on the ‘Messages’ tab to view previous and ongoing messages with matches. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3, R 4.1.5, R 4.1.6, R 4.1.7 |
| **Priority** | High |

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| **Item** | **R 4.4.2 Reporting** |
| **Summary** | In the event of harassment or inappropriate conduct, a User can report the offender through a report button. |
| **Rationale** | This application is meant for professional use. |
| **Users** | * Mentee * Mentor |
| **Preconditions** | * App is open and the User is logged in. (R 4.1.1). * User has a verified account. (R 4.1.2 R 4.1.3) * User has a complete profile. (R 4.1.5, R 4.1.6) * Mentor user has completed verification. (R 4.1.7) * User has matches. |
| **Basic course of events** | * User opens the profile of the match causing harassment. * User clicks on report button. * User chooses a reason from a list of options from a drop down box.   + Inappropriate content   + Sexual harassment   + Spam   + Compromised account   + Mentor misrepresented areas of expertise * User can include an optional specific message with a 140 character limit. * User clicks ‘Submit Report’. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3 |
| **Priority** | Stretch |

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| **Item** | **R 4.4.3 Notifications** |
| **Summary** | The User receives notifications through the app when a match has been made or they have been placed on hold, and when messages has been received. |
| **Rationale** | A mentee should receive a notification when a mentor match has been established so that the mentorship can begin. |
| **Users** | * Mentor * Mentee |
| **Preconditions** | * App is running and the User is logged in (R 4.1.1). * User has a verified account (R 4.1.2 R 4.1.3) |
| **Basic course of events** | * User has a ‘Notifications’ list on their account page. * The ‘Notifications’ list of the user gets a new entry every time one of the following happens:   + User receives a mentee request   + User’s request for mentorship is accepted/declined/placed on hold.   + User receives a message   + User’s hold status for a mentor expires (R 4.3.5) * User clicks on ‘Notifications’ button on their profile. * User has an option ‘Mark as read’ for each entry in the Notifications list. * User also has an option ‘Mark all notifications read’. * Once a notification is marked as read, it is removed from the list. * Notifications older than 100 days are removed from the list. |
| **References** | R 4.1.1, R 4.1.2, R 4.1.3 R 4.3.5 |
| **Priority** | Stretch |

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| **Item** | **R 4.4.4 Account Management(Mentor)** |
| **Summary** | A Mentor can view their own account and have the option to update and edit their own information. A list of  A list of accepted mentor requests is available to the mentor to view as well as the requests that haven’t been accepted. |
| **Rationale** | Users need to be able to view his/her own account information and edit it. Users can view a list of mentor/mentee match requests that have been sent and decide to delete/accept requests. The User logs out through the account management page. |
| **fUsers** | * Mentor |
| **Preconditions** | * App is open and User is logged in. (R 4.1.1) * User has a verified account. (R 4.1.2, R 4.1.3) * User has set search parameters. (R 4.2.1) |
| **Basic course of events** | * Mentor views his/her own account information. * Mentor edits his/her own account information. * Mentor views a list of mentees he/she is matched with. * Mentor views a list of mentee match requests that haven’t been accepted. * Mentor closes current mentor/mentee matches after the mentorship is finished. * A mentor can view a list of mentee requests and view the mentee’s account. * Mentor logs out through account page. * Mentor deactivates account through the account page. * If User is both a Mentor and Mentee, User can swap to a Mentee role through a button on the account management page. |
| **References** | R 4.1.1, R 4.1.3, R 4.2.1 |
| **Priority** | Medium |

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| **Item** | **R 4.4.5 Account Management(Mentee)** |
| **Summary** | A mentee can view their own account and have the option to update and edit their own information. A list of mentor matches is available for the mentee to view as well as mentor requests that haven’t been accepted. |
| **Rationale** | Mentee needs to be able to view his/her own account information and edit it. Mentee can view a list of mentor/mentee match requests that have been sent and decide to delete requests. The mentee logs out through the account management page. A mentee can change to a mentor role through a button in the account management page. |
| **Users** | * Mentor * Mentee |
| **Preconditions** | * App is open and User is logged in. (R 4.1.1) * User has a verified account. (R 4.1.2, R 4.1.3) * User has set search parameters. (R 4.2.1) |
| **Basic course of events** | * Mentee views his/her own account information. * Mentee edits his/her own account information. * Mentee views a list of mentors he/she is matched with. * Mentee views a list of mentor match requests that haven’t been accepted.   + A Mentee can click on a mentor request and view the mentor’s account information. * Mentee logs out through account page. * Mentee deactivates account through the account page. * If User is both a Mentor and Mentee, User can swap to a mentor role through a button on the account management page. |
| **References** | R 4.1.1, R 4.1.3, R 4.2.1 |
| **Priority** | Medium |

**5. Nonfunctional Requirements**

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| **Item** | **NF-5.1: Usability** |
| **Summary** | The application must be easy to use from the home page. |
| **Rationale** | Usability is key in this application due to it being on mobile and catered to mentors and mentees. If navigating the app is difficult and frustrating, this will be noticed immediately and use will be reduced greatly. |
| **Requirements** | * All settings and pages will be accessible through 3 clicks. * Buttons and clickable links will be a different color to clarify usability. |
| **References** | R 4.2.2, 4.4.1, 4.4.4 |
| **Priority** | High |

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| **Item** | **NF-5.2: Security Constraints** |
| **Summary** | The application must be must be secured by a password. The database will store login information and be encrypted. |
| **Rationale** | Account information and User login information should be protected by encryption and strong system security on the back end (server). If others gain access, a breach in privacy would occur, alongside enabling actions like harassment. |
| **Requirements** | * The passwords will be hashed and salted, then stored in a database on a secure server. * Communications between the App and the backend will be encrypted with SSL. * Accounts will be verified with edu emails. |
| **References** | R 4.1.1, 4.1.2, 4.1.3, 4.1.4, 4.1.6 |
| **Priority** | Medium |

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| **Item** | **NF-5.3: Performance** |
| **Summary** | The Application must be able to match, message, and update quickly. |
| **Rationale** | If database and server respond slowly, User will be kept waiting and get frustrated. |
| **Requirements** | * All User inputs (and database calls) will be responded to within 1 second. * All messages will be shown within 10 seconds of being sent. |
| **References** | R 4.1.1, 4.2.2, 4.2.3, 4.4.1 |
| **Priority** | Medium |

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| **Item** | **NF-5.4: Reliability** |
| **Summary** | The Application must be consistent and crash as little as possible to maintain maximum uptime. |
| **Rationale** | Crashes will lead to platform instability and User frustration. |
| **Requirements** | * The App will crash a maximum of once per week. |
| **References** |  |
| **Priority** | High |

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| **Item** | **NF-5.5: Configurability** |
| **Summary** | All numerical constraints on searches and maximum mentorships can be adjusted by administrators in real time. |
| **Rationale** | Configurability of constraints will allow for administrators to scale numbers for maximum amount of mentees requests or mentors number of mentees, holds, or mentors for themselves. This will allow flexibility as the app grows. |
| **Requirements** | * Administrators will be able to change number constraints for:   + Maximum Mentors   + Maximum Mentees   + Mentor Holds |
| **References** | R 4.2.1, 4.3.2, 4.3.3, 4.4.4 |
| **Priority** | Stretch |

**Glossary**

***Administrator***refers to the administrators of the application.

***App***, also known as ***system***, is the code that we are writing.

***Match*** refers to an unordered pair of a mentee and a mentor who they have matched with.

***Match List of a User*** refers to the list of all other users who the user has matched with.

***Mentee***, can refer to an undergraduate, graduate student, or postdoc who has made or is making a mentee profile.

***Mentor*** can refer to an undergraduate, graduate student, postdoc, or faculty member who has made or is making a mentor profile.

***Priority designations***, ‘***High***’ refers to features that are important to get done this semester for the purpose of the demo. ‘***Medium***’ and ‘***Low***’ priority features would be nice to get done this semester. We aim to finish some, but not all Medium features. ‘***Stretch***’ refers to things which would be nice to get done, which probably cannot get done this semester.

***User*** can refer to a mentee or a mentor that is using the App.

***Dual User*** refers to a user who has dual roles, that is, is both a mentor as well as a mentee.

**6. Individual Contributions**

**Stephen Daniel:** Attended and contributed to all 4 meetings, wrote use cases 4.1.1-4.1.7, helped write and edit many others, helped edit for formatting, grammar, and language consistency. Helped finish logo.

**Tara Fife:** I attended all group meetings, contributing to the design of the specific functionality of the app. I wrote the first draft on one of the requirement tables, and discussed specifics of several others. I hunted for and found several places of inconsistency. I made the first two prototypes of our logo, made the first draft of our glossary, and set most of the priority statuses.

**Cody East:** Attended and contributed to all 4 group meetings, created Use Case Diagram, table of contents, all nonfunctional requirements, and helped with overall design. Additionally created 1.1, 1.2, 1.3, 1.5, 2.1, 2.2, 2.4, 2.5, 2.6, and 3.1.

**Austin Lee:** Attended 3 of the group meetings. I wrote 4.4.1-4.4.5 of the use cases as well as 1.4, Product Scope, and 2.3, User Classes and Characteristics.

**Jagdeep Singh:** Attended and contributed to all 4 group meetings, worked with Tara on writing the first draft of cases 4.2.1-4.2.3 and 4.3.1-4.3.3. Edited/Rephrased/Rewrote various others and checked for inconsistencies.