



## **Sprint 2 Planning Document**

Connec+ (ConnectPlus)

Team 9

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## Sprint Overview

Last sprint, we got basic account creation working, and we created a large portion of the user interface. This sprint, we want to add implementation for the basic function of our project: allowing users to enter their location, and find nearby people with interests and classes similar to themselves. Our primary goal for this sprint is to allow the user to store their location, querying our database for a list of visible users, and lastly show those users in the list view and map view. Some of our secondary goals for this sprint are to reorganize our settings page to make it more intuitive, and add more connections to social media to give users more data with which they can make connections.

## Scrum Master

Calvin Henry

## Meeting Plan

MWF 11:30-12:30pm

HAAS G072

F 3:30-4:00pm

HAAS G050

## Risks and Challenges

- Last sprint, we had significant difficulties planning an appropriate amount of work for ourselves. This sprint, we want to make sure we take on an appropriate amount of work, and break our user stories into smaller pieces.
- Another issue with last sprint, is we left many of the user stories until the last week to complete. We did manage to complete most of them, but it was very rushed. This sprint, we will use weekly checkpoints, and plan to get certain stories done by a certain time, so we know whether we are on track to finish the sprint or not.

## Current Sprint Detail

### User Story 1

→ As a user, I would like the application to have the ability to display my profile information.

| # | Task Description  | Estimated Time | Owner  |
|---|---|----------------|--------|
| 1 | Implement services in the front end to request the profile data from the backend.                     | 2              | Joey   |
| 2 | Implement a route in the backend to read the user data from the database and return it to the client. | 1              | Joey   |
| 3 | Create unit tests confirming that the database returns an accurate snapshot of the user data.         | 1              | Calvin |

### → Acceptance Criteria

- ◆ Given that a user has already created their account, when they navigate to the settings page, then they will see the information that they have already entered.
- ◆ Given that a user has already connected a social media platform to their account, when they navigate to the settings page, then they will see the accounts currently linked to their account.
- ◆ Given that a user has previously selected interests for their account, when they navigate to the settings page, then their current interests will be loaded.

## User Story 2

→ As a user, I would like the application to have the ability to delete my profile information.

| # | Task Description   | Estimated Time | Owner |
|---|--|----------------|-------|
| 1 | Implement services in the front end to request deletion of the user in the backend.                            | 2              | Joey  |
| 2 | Implement a route in the backend to delete the user in the database, and return a success state to the client. | 1              | Joey  |
| 3 | Create unit tests confirming that the database reflects the deletion of the user.                              | 3              | Joey  |

### → Acceptance Criteria

- ◆ Given that a user deletes manually entered information from their account, when they submit the change, then the information will also be deleted from the database.
- ◆ Given that a user has disconnected a social media account from their profile, then the backend will remove the information from the database.
- ◆ Given that a the settings page is loaded, when the user navigates to the Interests section, then they will have the ability to remove previously added interests.

### User Story 3

→ As a user, I would like the application to have the ability to update my current profile information.

| # | Task Description  | Estimated Time | Owner |
|---|---|----------------|-------|
| 1 | Implement services in the front end to send updated user information to the backend   | 2              | Joey  |
| 2 | Implement a route in the backend to update the user information in the backend and return a success state to the client.    | 1              | Joey  |
| 3 | Create unit tests confirming that the database reflects the accurate state of the user after a put request has been issued. | 3              | Joey  |

#### → Acceptance Criteria

- ◆ Given that the settings page has been loaded, then the user will be able to change the data in the form.
- ◆ Given that a user entered information they would like to change, when the form is submitted, then the client will verify the input.
- ◆ Given that a input is valid, then the client will send the new information to the backend.
- ◆ Given that the client has sent the new information, when the backend receives it, then it will update the information in the database.

## User Story 4

→ As a user, I would like the application to determine my current location.

| # | Task Description   | Estimated Time | Owner   |
|---|--|----------------|---------|
| 1 | Implement getting a user's location from the web application               | 2              | Cameron |
| 2 | Implement sending the user's location from the web client to the backend.  | 2              | Cameron |
| 3 | Implement server routes to send the user's location to the backend.        | 1              | Joey    |
| 4 | Implement unit tests showing that the users location is accurately stored. | 3              | Joey    |

→ Acceptance Criteria

- ◆ Given that a user has logged in, when they navigate to the map or list page, then they will be prompted to give the application permission to view their location.
- ◆ Given that a user has granted permission to the application, when the location is determined, then it will be sent to the backend.
- ◆ Given that the backend has received the location from the client, then it will store the location in the user's data in the backend in order to match users based on location.

## User Story 5

→ As a user, I would like the application to fetch nearby users in the area within the selected range.

| # | Task Description  | Estimated Time | Owner    |
|---|---|----------------|----------|
| 1 | Add a range selector to the front end that adjusts the map or list accordingly                      | 5              | Cameron  |
| 2 | Implement finding users based on range from current location in the backend.                        | 5              | Victoria |
| 3 | Implement filters based on basic saved profile information.   | 5              | Victoria |
| 4 | Implement filters based on information pulled from social media sources.                            | 5              | Calvin   |
| 5 | Add unit testing for whether or not the correct users are pulled from the database to be displayed. | 3              | Joey     |

### → Acceptance Criteria

- ◆ Given that the Map or List page has been loaded, then the application will query the backend for nearby users.
- ◆ Given that the client has requested nearby users, when the backend receives the request, then it will respond with a list of the nearby users.
- ◆ Given that a user applies a filter, when the filter is specified, then the client will remove users from the list that do not match the filter.



## User Story 6

→ As a user, I would like for the application to be able to display a list view with nearby users in the area within the selected range.

| # | Task Description   | Estimated Time | Owner    |
|---|--|----------------|----------|
| 1 | Design user component which can be populated with information from the selected user's profile in the database | 5              | Cameron  |
| 2 | Refine the list view to have interactive profile cards that can be clicked to display the user profile card    | 3              | Cameron  |
| 3 | Implement unit tests to confirm that the list view shows valid users.  | 3              | Victoria |

### → Acceptance Criteria

- ◆ Given that the List view has been loaded, when the backend responds with a list of users, then the users will be dynamically displayed in the view.
- ◆ Given that the List view is loaded, when a user selects another user in the list, the selected user's profile card will appear.
- ◆ Given that a user has been selected, when the profile card appears, then it will be populated with the user's information.

## User Story 7

→ As a user, I would like for the application to be able to display a map view with nearby users in the area within the selected range.

| # | Task Description   | Estimated Time | Owner    |
|---|--|----------------|----------|
| 1 | Use Users location to create a pinpoint on the map at the specified location.                        | 3              | Cameron  |
| 2 | Implement clicking on pinpoints on the map to view the specified users profile.                      | 2              | Cameron  |
| 3 | Implement a distance filter for the map view, so it does not try to load every user in the database. | 5              | Joey     |
| 4 | Implement unit tests to confirm that the map view shows valid users.                                 | 3              | Victoria |

### → Acceptance Criteria

- ◆ Given that the map view has been loaded, when the client receives the list of users from the backend, then the users will appear on the map.
- ◆ Given that the List view is loaded, when a user selects another user in the list, the selected user's profile card will appear.
- ◆ Given that a user has been selected a specific user, when the profile card appears, then it will be populated with the that user's information.

## User Story 8

→ As a user, I would like for the settings page to be well organized with appropriate inputs for every section.

| # | Task Description                        | Estimated Time | Owner   |
|---|---|----------------|---------|
| 1 | Add missing required text inputs        | 0.5            | Cameron |
| 2 | Split content into appropriate sections | 1              | Cameron |
| 3 | Make sections expand and collapse       | 2              | Cameron |
| 4 | Improve UI Experience                   | 2              | Cameron |

### → Acceptance Criteria

- ◆ Given that the settings page has been loaded, when a section is selected, then the correct inputs are displayed.
- ◆ Given that the settings page has been loaded, when a section header is clicked, the section is expanded to show all content within the section.
- ◆ Given that a section was selected, when a section header is clicked again, the section is collapsed to hide all content within the section.

## User Story 9

→ As a user, I would like to be able to change my mood status and visibility on the map or list page.

| # | Task Description   | Estimated Time | Owner    |
|---|--|----------------|----------|
| 1 | Add Mood Status Editor to Map and List views   | 1              | Cameron  |
| 2 | Add Invisibility selection to Map and List views   | 1              | Cameron  |
| 3 | Implement services to send a change in Map or List view to the backend.                              | 3              | Nirali   |
| 4 | Implement backend services to store these settings in the database.                                  | 3              | Calvin   |
| 5 | Implement services to read and store these settings in the local browser storage.                    | 2              | Victoria |
| 6 | Implement services to request user settings from the backend if local storage does not contain them. | 2              | Calvin   |
| 7 | Implement invisibility in maps   | 2              | Cameron  |
| 8 | Create unit tests to confirm that the database accurately shows changed settings.                    | 2              | Joey     |

### → Acceptance Criteria

- ◆ Given that a user wants to be invisible, when they select the invisible setting, their icon will not appear on other user's maps and lists.
- ◆ Given that a user wants to be visible, when they select the visible setting, their icon will show on other user's maps and lists.
- ◆ Given that a user wants to change their visibility, when they change the visibility setting, this information will be stored in the database and local browser storage.
- ◆ Given that a user wants to change their mood status, when they change the mood status setting, this information will be stored in the database and local browser storage.

## User Story 10

→ As a user, I would like the application to have menu in the navigation bar that allows me to navigate to any other page.

| # | Task Description  | Estimated Time | Owner    |
|---|---|----------------|----------|
| 1 | Add drop down menu to navigation bar                                | 2              | Victoria |
| 2 | Implement functionality for dropdown menu buttons to navigate pages | 3              | Victoria |
| 3 | Implement logout button   | 1              | Cameron  |
| 4 | Add unit tests to confirm that routing works.                       | 1              | Calvin   |

### → Acceptance Criteria

- ◆ Given that the navigation bar has been loaded, then it will contain a drop down to allow navigation between pages.
- ◆ Given that the user has opened the dropdown menu, when they select a page from the list, then they will be taken to the selected page.
- ◆ Given that a user is logged in, when the 'logout' button is selected, then they will be logged out from the application.

## User Story 11

→ As a user, I would like the application to be able to store my Facebook information.

| # | Task Description   | Estimated Time | Owner    |
|---|--|----------------|----------|
| 1 | Implement a route in the backend to store data from the Facebook API in the database | 3              | Calvin   |
| 2 | Implement a route in the backend to allow the client to request Facebook data        | 2              | Victoria |
| 3 | Display the user's Facebook login status in the web client                           | 2              | Cameron  |
| 4 | Implement the ability for a user to disconnect Facebook from the app                 | 2              | Calvin   |
| 5 | Create tests to confirm that user's Facebook login status is correctly displayed     | 2              | Joey     |

### → Acceptance Criteria

- ◆ Given that a user successfully connects their Facebook, when the client receives the data from the API, then it will make a request to the backend to store the received data.
- ◆ Given that a user successfully connects their Facebook, when the backend receives the data from the web client, then it will store it in the database.
- ◆ Given that a user's Facebook is already connected, when they try to connect it again, then they will receive an error message.
- ◆ Given that a that a user's Facebook is not connected, when they try to disconnect it, then they will receive an error message.

## User Story 12

→ As a user, I would like the application to be able to store my Blackboard class information.

| # | Task Description  | Estimated Time | Owner   |
|---|---|----------------|---------|
| 1 | Create Frontend Interface for choosing classes              | 2              | Cameron |
| 2 | Implement receiving class lists from Purdue API             | 2              | Joey    |
| 3 | Implement adding classes to User profile                    | 2              | Joey    |
| 4 | Implement removing classes from User profile                | 1              | Joey    |
| 5 | Implement backend route to send Blackboard data to firebase | 2              | Joey    |
| 6 | Create unit test confirming user's classes are updated      | 1              | Joey    |

### → Acceptance Criteria

- ◆ Given that a user navigates to the settings page, when they click the Blackboard section, then their current list of classes will appear.
- ◆ Given that a user wants to add a class, when they select the add classes button, then a full list of Purdue classes will appear to select from.
- ◆ Given that a user wants to remove a class, when they select the remove classes button, then a list of their current classes will appear to select from.
- ◆ Given that a user wants to modify their classes, when they either add or remove a class, then their updated class information will be sent to firebase.

## User Story 13

→ As a user, I would like the application to be able to store my Twitter information.

| # | Task Description   | Estimated Time | Owner    |
|---|--|----------------|----------|
| 1 | If I have already connected to my account, fill Twitter Username Box with valid username | 2              | Calvin   |
| 2 | Implement retrieving user data from the Twitter API                                      | 5              | Victoria |
| 3 | Display message confirming the validity of the given Twitter Username                    | 2              | Calvin   |
| 4 | Implement backend route to send Twitter data to Firebase                                 | 3              | Calvin   |
| 5 | Create unit test confirming user's login status is correctly displayed                   | 3              | Calvin   |

### → Acceptance Criteria

- ◆ Given that a user enters their correct Twitter username, when the client receives the data from the API, then it will make a request to the backend to store the received data and valid Twitter username
- ◆ Given that a user enters their correct Twitter username, when the backend receives the data from the web client, then it will store it in the database.
- ◆ Given that a user enters an incorrect Twitter username, then they will receive an error message.
- ◆ Given that a user has entered a valid Twitter username, when they return to the settings page, then their valid username will be in the Twitter username textbox.



## User Story 14

→ As a user, I would like to receive error messages from the application when I have incorrectly filled out forms.

| # | Task Description   | Estimated Time | Owner  |
|---|--|----------------|--------|
| 1 | Implement error handling for when a user provides invalid input when attempting to change their email or password --only checks password | 1.5            | Nirali |
| 2 | Implement error handling for when a user provides invalid data when attempting to change their password                                  | 1.5            | Nirali |
| 3 | Implement error handling for when a user provides an incorrect email or password when deleting account--only checks password             | 1.5            | Nirali |
| 4 | Implement error handling for when a user provides invalid data during profile creation   | 1.5            | Nirali |
| 5 | Implement error handling for when a user provides invalid data when attempting to change their profile data                              | 1.5            | Nirali |
| 6 | Create unit tests to confirm that error messages appear  | 1              | Calvin |

### → Acceptance Criteria

- ◆ Given that a user has provided invalid data, when they attempt to change their email address, then the page will show an error message.
- ◆ Given that a user has provided invalid data,, when the user attempts to change their password,, then the page will display an error and the password will not be changed.
- ◆ Given that a user has provided invalid data, when the user attempts to delete their account, then page will display an error.
- ◆ Given that the user has provided invalid data, when they attempt to create their profile, then the page will display an error and the profile will not be created.

- ◆ Given that the user has provided invalid data, when they attempt to change their profile data, then the page will display an error and the profile will not be updated.

## User Story 15

→ As a user, I would like to receive success messages when I have correctly filled out forms.

| # | Task Description  | Estimated Time | Owner  |
|---|---|----------------|--------|
| 1 | Implement success messages for when a user successfully deletes their account               | 1.5            | Nirali |
| 2 | Implement success messages for when a user successfully changes their account email address | 1.5            | Nirali |
| 3 | Implement success messages for when a user successfully changes their password              | 1.5            | Nirali |
| 4 | Implement success messages for when a user successfully creates a profile                   | 1.5            | Nirali |
| 5 | Implement success message for when a user successfully updates their profile information    | 1.5            | Nirali |
| 6 | Create unit tests to confirm that success messages appear                                   | 1              | Calvin |

### → Acceptance Criteria

- ◆ Given that a user has provided valid data, when they attempt to change their email address, then the page will show a success message and the email address will be displayed.
- ◆ Given that a user has provided valid data, when the user attempts to change their password, the page will show a success message and the password will be changed.
- ◆ Given that a user has provided valid data, when the user attempts to delete their account, the page will show a success message and the account will be deleted.
- ◆ Given that the user has provided valid data, when they attempt to create their profile, then the page will show a success message and the profile will be created.
- ◆ Given that the user has provided valid data, when they attempt to change their profile data, then the page will show a success message and the profile will be updated.

## Remaining Backlog

### 28/43 Stories Complete

- As a user, I would like to be able to create and login to an account on the web.
- As a user of the web application, I would like to be able to be able to reset my password if forgotten.
- As a user, I would like to be able to manually enter data about myself and my interests.
- As a user, I would like to have a settings page so that I can change features of the application, such as whether or not I am visible to others in my area.
- As a user, I would like to be able to delete my account from the Settings page.
- As a user, I would like to see a graphical map interface page.
- As a user, I would like to see a list interface page.
- As a user, I would like to be able to change my account email and password.
- As a user, I would like to be able to select from multiple languages when using the web application.
- As a user, I would like to be able to give feedback to the developers from the Settings page.
- As a user, I would like to be presented with a splash page upon opening the website.
- As a user, I would like to be able to link my Facebook account to my Connect Account so that I can connect with people who have friends in common with me.
- As a user, I would like the application to have the ability to display my profile information.
- As a user, I would like the application to have the ability to delete my profile information.
- As a user, I would like the application to have the ability to update my current profile information.
- As a user, I would like the application to determine my current location.
- As a user, I would like the application to fetch nearby users in the area within the selected range.
- As a user, I would like for the application to be able to display a list view with nearby users in the area within the selected range.
- As a user, I would like for the application to be able to display a map view with nearby users in the area within the selected range.
- As a user, I would like for the settings page to be well organized with appropriate inputs for every section.
- As a user, I would like to be able to change my mood status and visibility on the map or list page.

- ~~As a user, I would like the application to have menu in the navigation bar that allows me to navigate to any other page~~
- ~~As a user, I would like the application to be able to store my Facebook information.~~
- ~~As a user, I would like the application to be able to store my Blackboard information~~
- ~~As a user, I would like the application to be able to store my LinkedIn information~~
- ~~As a user, I would like to receive success messages from the application when I have incorrectly filled out forms.~~
- ~~As a user, I would like to receive error messages from the application when I have incorrectly filled out forms.~~
- ~~As a user, I would like to be able to link my Connec+ account to my Twitter account so that I can connect who I share connections with.~~
- ~~As a user, I would like to be able to link my Connec+ account to my Blackboard account so that I can connect with people who have classes in common with me.~~
- ~~As a user, I would like to have my location refreshed when I enter the webpage, and have it stored in my account.~~
- As a user, I would like to be able to store my Twitter information within my Connec+ account and profile.
- As a user, I would like to be able to match to people based on my existing LinkedIn connections.
- As a user, I would like to be able to match to people based on my existing Facebook friends and data.
- As a user, I would like to be able to match to people based on my existing Twitter information and data.
- As a user, I would like to be able to match to people based on information from Blackboard
- As a user, I would like to be able to efficiently sort and get other users with relevant data, so I can see the most relevant users.
- As a user, I would like to be able to link my Connec+ account to my LinkedIn account so that I can connect with people who follow similar people as me.
- As a user, I would like to be able to store my connections within my account.
- As a user, I would like to be able to be able to broadcast a message from the web page to those close to me, so I can easily form new connections with people already in my immediate area.
- As a user, I would like to be able to respond to a broadcast from the web page so that I can quickly ascertain their location and meet-up with them.
- As a user I would like to have a feature on the web application to easily clear and reload new classes so that it is easier for students to use the application across multiple semesters.