

User Stories and Set-up Assignment: CommunityConnect

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Git URL: <https://github.com/ebrahimk/CS361-001-W2018/tree/CommunityConnect-Assignment-5/projects/ebrahimk/assignment-5>

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Contents

1	User Stories Corresponding Tasks	2
2	User Stories and Task Decomposition	4
3	UML Sequence Diagram/Spike	9
4	Class Diagram	13
5	Meeting Report	14

1 User Stories Corresponding Tasks

1. **User views the heat map on the home page.**
 - The user can see if CommunityConnect is a viable option for them.
2. **User views the How To Use CommunityConnect on the home page.**
 - The user can gain helpful insight into CommunityConnects purpose, and the general directions for getting started using the application.
3. **User clicks Create Profile/Login from the drop down menu.**
 - The user is brought an HTML form which prompts the user for input about their location, country of origin, email address, a password, password confirmation and a username.
4. **User wants to find individuals in their area with the same country of origin.**
 - The user will select the find friends button after logging into his/her page and a list will be returned with matches to the users ethnicity and area that they will be able to connect with.
5. **User Already has an account and wants to view their information**
 - The user selects the edit/view profile button and is provided with an HTML form. This form holds the previous data and can be edited and saved.
6. **User wants to access people they have already matched with.**
 - The user selects the matches button and are shown a list of all profiles they have matched with.
7. **User wants to create a group.**
 - The user creates a group which can contain other users and a separate message board.
8. **User experiences harassment from someone they connected with.**

- The user will flag the comment with a tag from a dropdown list for an admin to look at and determine if the account is worth banning or whether the claim was not founded.
9. **User sends an in-app message.**
 - The user sends a message to another user through a live chat section of the website.
 10. **User wants to view the profiles of individuals returned from a search.**
 - The user clicks on another users profile card in the search result web page and is directed to the other users profile page.
 11. **User wants to edit the information contained in their profile.**
 - The user selects Login from the drop down menu, enters their username and password and is directed to their CommunityConnect profile. Their individual profile contains all of their previously entered information and can be edited manually.
 12. **User wants to change the mile radius of searches performed by CommunityConnect.**
 - The user selects a new mile radius from the search settings.
 13. **User wants to filter search results to only include individuals who share their listed interests.**
 - The user navigates to the settings menu by accessing the menu drop down icon in the top right corner of the home page. The user can then check the box named filter by interests to make the search algorithm return profiles based off of the users listed interests.
 14. **User wants to change the age range of individuals CommunityConnect returns after a search.**
 - The user navigates to the settings menu by accessing the menu drop down icon in the top right corner of the home page. The user can then slide the age range button to select an appropriate age range of individuals whom the search algorithm will return.

2 User Stories and Task Decomposition

1. User views the How To Use CommunityConnect on the home page.
 - **Due:** 2/26/18
 - **Tasks:**
 - (a) Write a template HTML file for containing the guide text **-20min**
 - The completion of this task is independent of the completion of any other task
 - (b) Write a step by step guide on how to use CommunityConnect **-20min**
 - Complete the template HTML file outlined in the first task
2. User clicks Create Profile from the drop down menu.
 - **Due:** 2/28/18
 - **Tasks:**
 - (a) Write HTML file for profile creation page. **-20min**
 - The completion of this task is independent of the completion of any other task
 - (b) Write Javascript for page. **-2hr**
 - Complete the HTML file for the page in tasks 1.
 - (c) Write CSS for page. **-1hr**
 - Complete the HTML file for the page in tasks 1.
 - (d) Connect page to database. **-5hr**
 - Complete all other tasks outlined for this user story.
3. User views the heat map on the home page.
 - **Due:** 3/5/18
 - **Tasks:**
 - (a) Create HTML for home page. **-1hr**
 - The completion of this task is independent of the completion of any other task.
 - (b) Generate JS file to interface with Google maps API. **-30min**
 - Complete the HTML file for the page in tasks 1.

- (c) Have the Google Maps API grab data from the CommunityConnect database. **-5hr**
 - Complete all other tasks associated with this user story and create well defined interfaces for the CommunityConnect database so the the Google Maps API can grab said data.
4. User wants to find individuals in their area with the same country of origin
- **Due:** 3/5/18
 - **Tasks:**
 - (a) Create a search button on the users home page. **-20min**
 - This is dependant on the completion of the users home page.
 - (b) Create a function in javascript to execute matching the users. **-3hr**
 - This function is dependant on the completion of the database management. We need to map out how we will store information first.
 - (c) Create an interface for the user to see their results **-1hr**
 - When the other 2 tasks are completed, we should be able to finish the interface.
5. User wants to view the profiles of individuals returned from a search.
- **Due:** 3/5/18
 - **Tasks:**
 - (a) Write connection to other profiles in Javascript/HTML. **-1hr**
 - The completion of this task is contingent on the completion of the backend architecture .
 - (b) Pull the JSON objects containing the profile information from the database and populate the client side page. **-2hr**
 - The completion of this task dependant on the completion of the first task within this user story as well as the completion of the HTML/CSS/JS stack for the returned profile webpage on the client side.
6. User already has an account and wants to view their information
- **Due:** 3/1/18

- **Tasks:**
 - (a) Create a view/edit info button. **-20min**
 - Dependent on drop down menu being completed.
 - (b) Serve up the HTML form that holds user info. **-1hr**
 - Dependent on profile being created and stored in the database correctly.
 - (c) Create save button that updates user info in database. **-1hr**
 - Dependent on profile being created and stored. Ability to access the correct info in the database.

7. User wants to access people they have already matched with.

- **Due:** 3/12/18
- **Tasks:**
 - (a) Create HTML for a contacts page. **-1hr**
 - Dependent on profiles being completed.
 - (b) Create Javascript for page. **-1hr**
 - Dependent on profiles being completed and database being implemented.

8. User wants to create a group.

- **Due:** If time allows
- **Tasks:**
 - (a) User will join a group that has their own personal page. **-2hr**
 - This completion will need to wait until we finish all of the core processes. The website will need to be functioning.
 - (b) The users will be able to post messages on their page along with other things. **-1hr**
 - This completion will be implemented in their own personal group page requiring completion of the groups personal page.
 - (c) The user can leave the group via a button on the page. **-20min**
 - This button will also be located on the page so it is necessary to have the personal page finished before this is done.

9. User experiences harassment from someone they connected with.

- **Due:** If time allows
 - **Tasks:**
 - (a) Create flag button on messages. **-20min**
 - Dependent on internal message system being complete.
 - (b) Messages are checked and profile is banned if needed. **-1hr**
 - Dependent on message system being complete.
10. User sends an in-app message.
- **Due:** If time allows
 - **Tasks:**
 - (a) Create HTML elements. **-1hr**
 - Independent from everything.
 - (b) Create Javascript. **-2hr**
 - Independent from everything.
 - (c) Create database contact. **-2hr**
 - Dependent on database implementation.
11. User wants to change the mile radius of searches performed by Community-Connect.
- **Due:** If time allows
 - **Tasks:**
 - (a) Incorporate the google maps API into our website. **-2hr 30min**
 - Once the core of the website is working we can begin working on the google maps API.
 - (b) Utilize this API to calculate distance between users. **-1hr**
 - This completion relies on the previous task being completed.
 - (c) Create a function within the search function to match within the mile radius. **-1hr**
 - The completion relies on the previous task being completed.
12. User wants to filter search results to only include individuals who share their listed interests.
- **Due:** If time allows

- **Tasks:**

- (a) Complete the HTML/CSS stack for the Settings webpage. **-1hr**
 - The completion of this task is independent of the completion of any other task.
- (b) Write backend architecture to receive POST requests from the page. **-1hr 30min**
 - The completion of this task is dependant on the backend architecture and CommunityConnect database being complete.
- (c) Parse POST request information and populate JSON object attached to said users profile. **-1hr 20min**
 - This task is contingent on the completion of the previous two tasks and the client side page which displays the users match results.

13. User wants to change the age range of individuals CommunityConnect returns after a search.

- **Due:** If time allows

- **Tasks:**

- (a) Create option to change age range in profile settings. **-20min**
 - Dependent on profile settings page being functional, search is functional.
- (b) Age range is updated on back end. **-1hr**
 - Dependent on profile settings page being functional.

3 UML Sequence Diagram/Spike

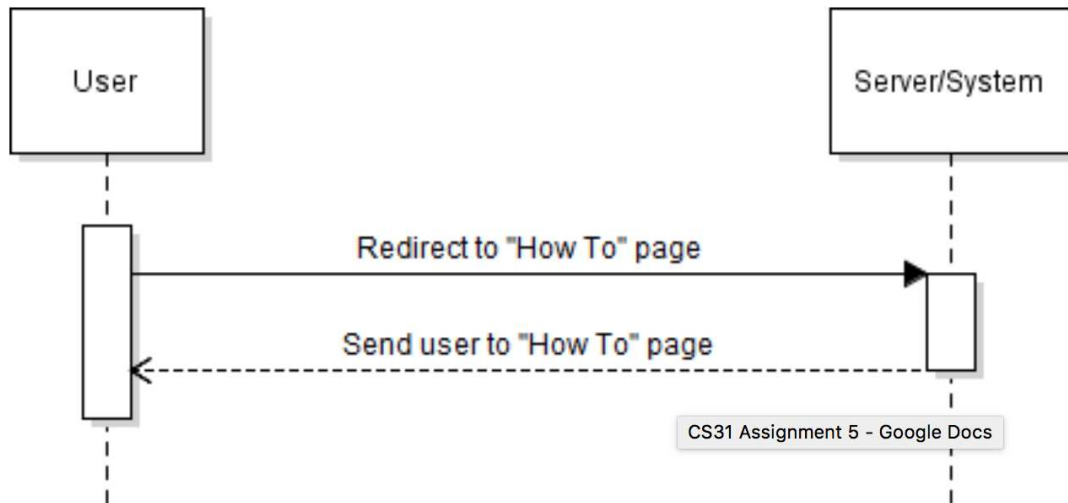


Figure 1: User clicks Create Profile from the drop down menu.

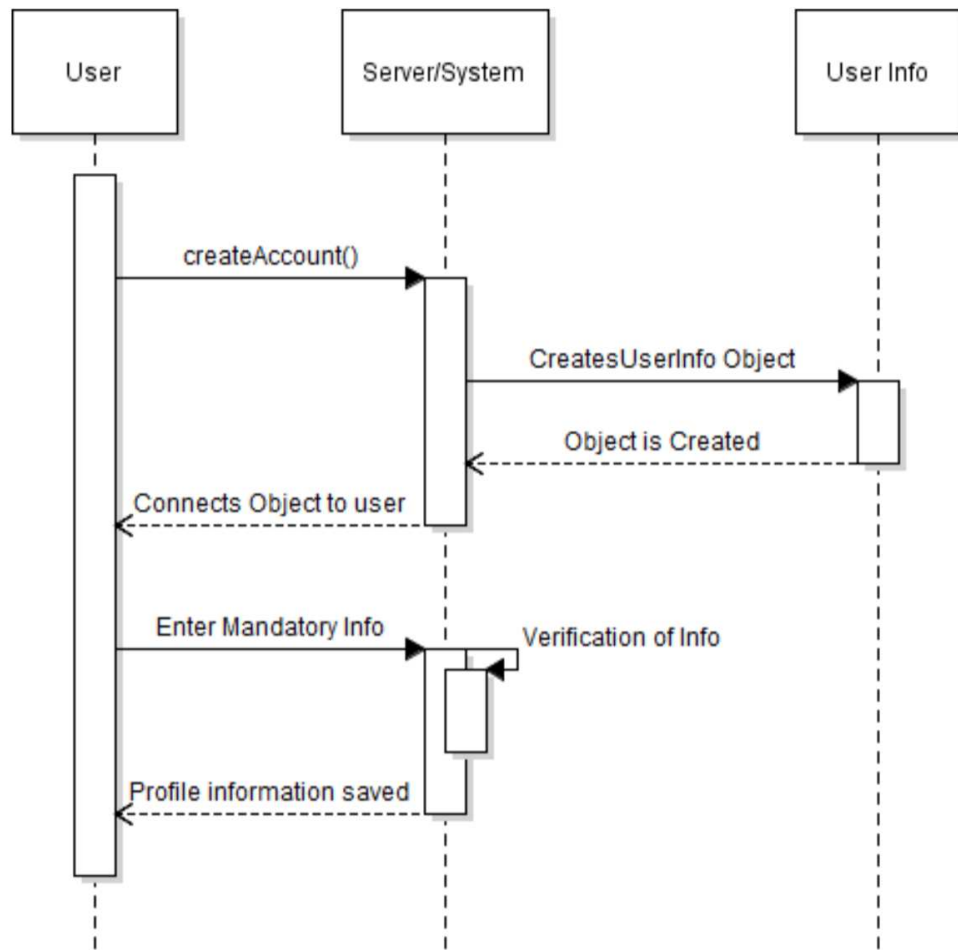


Figure 2: User clicks Create Profile from the drop down menu.

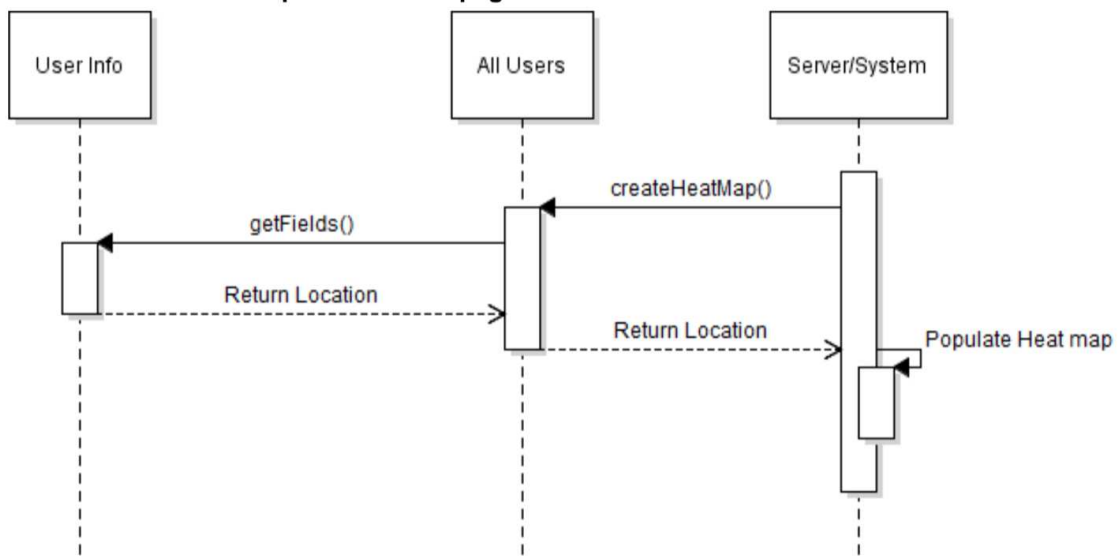


Figure 3: User views the heat map on the home page.

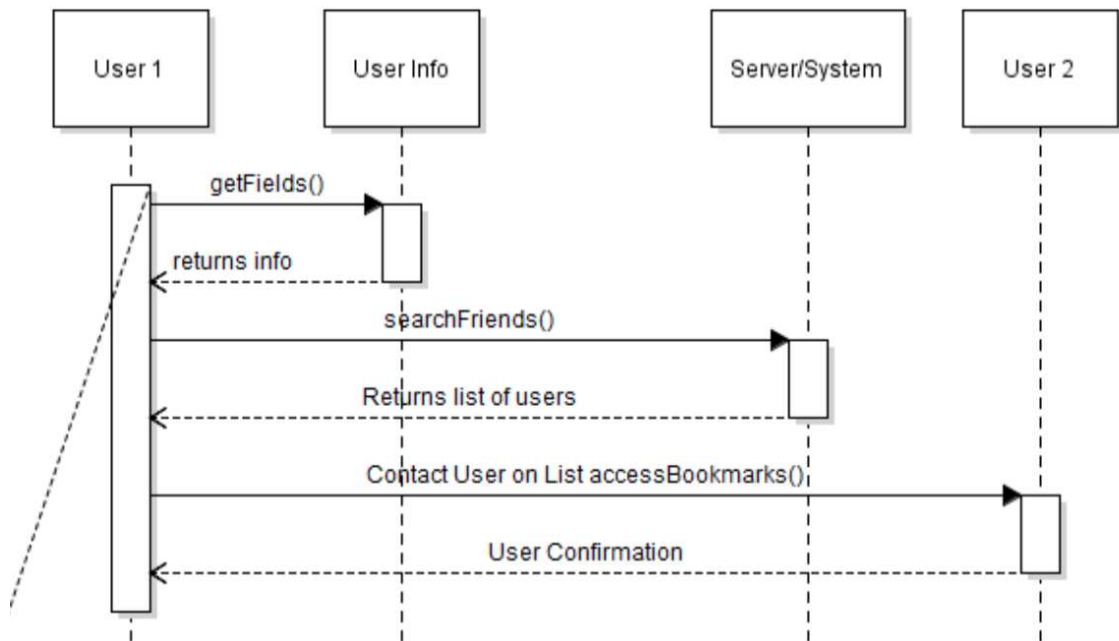


Figure 4: User wants to find individuals in their area with the same country of origin.

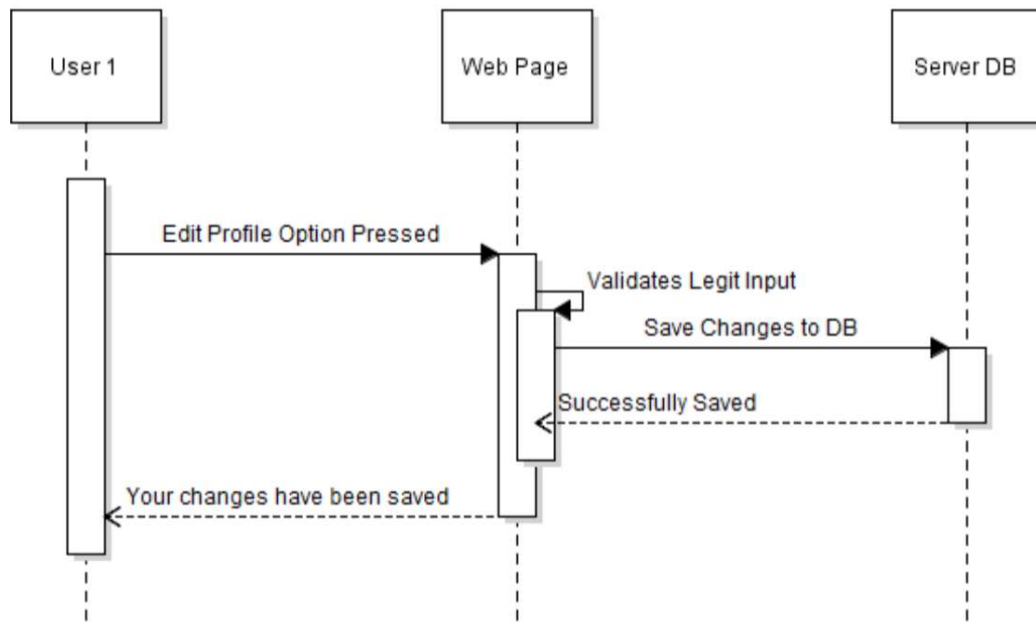


Figure 5: User already has an account and wants to view their information.

4 Class Diagram

Due to the fact that implementing the home page only requires fundamental HTML/CSS/JS skills we plan to work on the guide portion of the homepage remotely. To reduce the amount of time individuals spend reverse engineering the work of other, one team member will be assigned to complete each user story. No stringent deadlines are placed on individuals for completing individuals task of user stories. So long as the individual assigned to the user story completes all of the tasks by the deadline the CommunityConnect development team will be satisfied.

1. User views the How To Use CommunityConnect on the home page.

- **Owner:** Kamron Ebrahimi
- **Tasks and Work Distribution:**
 - (a) Write a template HTML file for containing the guide text.
 - (b) Write a step by step guide on how to use CommunityConnect .

2. User clicks Create Profile from the drop down menu.

- **Owner:** Sam Wilson
- **Tasks and Work Distribution:**
 - (a) Write HTML file for profile creation page.
 - (b) Write HTML file for profile creation page.
 - (c) Write CSS for page.
 - (d) Connect page to database.

3. User views the heat map on the home page.

- **Owner:** Leif Tsang
- **Tasks and Work Distribution:**
 - (a) Create HTML for home page. - Completed
 - (b) Generate JS file to interface with Google maps API.
 - (c) Have the Google Maps API grab data from the CommunityConnect database.

4. User wants to find individuals in their area with the same country of origin.

- **Owner:** Quinton Osborn
 - **Tasks and Work Distribution:**
 - (a) Create a search button on the users home page.
 - (b) Create a function in javascript to execute matching the users.
 - (c) Create an interface for the user to see their results.
5. **User already has an account and wants to view their information.**
- **Owner:** Thomas Korsness
 - **Tasks and Work Distribution:**
 - (a) Create a view/edit info button.
 - (b) Serve up the HTML form that holds user info.
 - (c) Create save button that updates user info in database.

5 Meeting Report

This week the CommunityConnect development team met to discuss some technical challenges we predict to encounter while implementing a rough prototype of the application. Furthermore the team delegated responsibilities and itemized/assigned tasks for each for each spike in the development process.

Next week the team plans to begin writing the client side code (HTML/JavaScript/CSS stack) for the CommunityConnect application. Already some of this code has been completed. This code serves as an solid foundation off which to continue developing CommunityConnect. The next step of the development process will be to complete the back end architecture for the application. The development team has discussed some potential tools of tackling this task and have agreed to utilize Node.js, Express and Handlebars as means of creating a well organized back-end environment.

The customer was able to meet with the development team this week and now the entire development has a concrete idea about of how to realize the CommunityConnect application. We have a solid foundation off which to work, an intuitive well prototyped user interface, and well organized documentation to reference (such as use case diagrams and sequence diagrams) to help us along the development process. We expect to see a high-fidelity prototype within the next two weeks.

Kamron has completed the main HTML pages. Next week we will be adding the functionality to these pages through Javascript and database use. All of the tasks will be divided up to each team member by each user case. As each task is completed, team members will mark them as complete on the github readme checklist. Once Monday the 5th comes, we will assess how much work has been accomplished and reassign tasks if uncompleted.

Kamron Ebrahimi	User Stories and Home Page - LaTeX
Quinton Osborn	User Stories
Leif Tsang	Sequence Diagrams and User Stories
Thomas Korsness	User Stories and
Samuel Wilson	User Stories and Meeting Report