

CSC309 Proposal - StudentToMentor

Application Topic

The purpose of our web application is to help university students find mentors in their field of interest. There are websites that exist to help people find mentors in their industry, however many of them are geared towards people who have already graduated from university and most likely have already begun their careers. It's harder for students to find mentors who are willing to work with them, compared to people who are already in the workforce. This web program would allow students to be matched with mentors who are particularly interested in working with students. Students and mentors can create profiles and submit applications. Admin users can then go in and match mentees with mentors based on particular qualities of their application, such as career interests.

User Interactions

Creating and Updating a Profile/ Logging In and Out

There will be three types of Users: Admins, Students, and Mentors. Students and Mentors will be able to create a profile with their personal information, such as name, gender, address, email address, picture, etc. After a user has created a profile, they are able to log in with this profile in the future, and log out whenever they choose. Students and Mentors can only change their own profile information, while Admins can change anyone's profile information.

User Dashboard

There will be an option to view their profile.

There will be an option to send in a new application, and to view applications they have previously made.

There will be a "Quick Search" bar for searching for other users profiles, and an option to go to an Advanced Search Page where they can view more results and filter their search further.

The wireframe shows a web page layout for a user profile. At the top, there is a navigation bar with links: "StudentToMentor", "Home", "Applications", and "Advanced Search". On the right side of the navigation bar is a user profile icon and the name "John Smith".

The main content area is divided into two columns. The left column features a large square placeholder for a profile picture, with the text "Click to upload New Avatar" below it. The right column contains a form with the following fields:

- First Name:** A text input field containing "John".
- Last Name:** A text input field containing "Smith".
- Student Number:** A text input field containing "123456789".
- Email:** A text input field containing "john.smith@email.utoronto.ca".
- Gender:** A dropdown menu with "Male" selected.
- Year of Study:** A dropdown menu with "3" selected.
- Interests:** Three checkboxes labeled "Machine Learning x", "Python x", and "Image Processing x", all of which are checked.
- Search Bar:** A text input field with the placeholder text "Type to search for a tag".
- About:** A text area containing the text: "Hi, I am currently pursuing a focus in image processing and am looking to learn more about it and machine learning in general."

Viewing a Profile

Admins have the authorization to be able to view all the information in every person's profile. Students and Mentors can view profiles of other Students and Mentors.

A hand-drawn mockup of a user profile page. At the top is a navigation bar with links: "Student to Mentor", "Home", "Applications", and "Advanced Search". On the right of the bar is a user icon and the name "John Smith". The main content area features a profile for "Alice Brown". On the left is a placeholder for a profile picture. To the right of the picture, the following information is displayed: "Status: Student", "Year of Study: 4", "Gender: Female", and "Interests: Operating systems" (with a small icon next to the text). Below this is an "About" section with the text: "Hi, I'm a fourth year CS specialist at the St George campus, with focus in Computer Systems."

Sending in an Application

Once a student or mentor has created a profile, they can send an application to the program through a form that asks them for their career interests, expected graduation dates, mentor, preferences, a statement on why they want to be in the program, etc. Admins are the only ones that can change the information submitted on someone's application.

A hand-drawn mockup of an application form. At the top is a navigation bar with links: "Student to Mentor", "Home", "Applications", and "Advanced Search". On the right of the bar is a user icon and the name "John Smith". The form contains the following fields and questions: "Expected graduation date:" with a dropdown menu showing "January" and a "Year" input field; "Have you been part of the mentorship program in the past?" with radio buttons for "Yes" and "No"; "Why are you interested in the mentorship program?" with a large text area and a "2000 characters left" indicator; "What are your career interests and/or goals?" with a large text area and a "2000 characters left" indicator; and "Do you have any preferences for mentors?" at the bottom.

Profile Search

Students or Mentors will be able to search for another user's profile based on their name, career interest, tags etc. This would open a new page showing all the profiles that match the search terms.

The sketch shows a web application interface for profile search. At the top, there is a navigation bar with links: "Student To Mentor", "Home", "Applications", and "Advanced Search" (which is underlined). On the right of the navigation bar is a user profile icon and the name "John Smith". Below the navigation bar, the main content area is titled "keyword search" and contains a large text input field with a search icon (magnifying glass) on the right. Below this, there is a "Filter by" section with two columns of filters. The left column includes: "First Name" with a text input field, "Student Number" with a text input field, "Status" with a dropdown menu showing "Mentor", and "Gender" with a dropdown menu showing "Male". The right column includes: "Last Name" with a text input field, "Email" with a text input field, "Year of Study" with a dropdown menu showing "---", and "Interests" with a text input field.


Admin Dashboard

There will be an option to view a list of all User Profiles in the web application. There will be an option here to add a new user. The view will initially have a list of all users, with options beside each user to either delete them or edit their profile. There will be a search bar on this view to search for particular users based on things like name, student number, career interests, etc.

There will also be an option to open the Matching view.

There will be an option to view previous year's finalized matches and applications. An admin can purge the information from the previous year.

Admins will have options to download data (such as users, matches, applications, etc.) as a CSV and use that CSV in the future to re-populate the database.

StudentToMentor Home Match Applications Profiles  Bob Ross

Match


Open matching view

Download existing matchings as a .csv file

Upload .csv file

Applications

Search applications




View all applications

Download all applications as a .csv file

Upload .csv file

Profiles

Search profiles




View all profiles

Download all profiles as a .csv file

Upload .csv file

Matching Students with Mentors

Admins have access to the matching view - since they are the ones who are going to create the Mentor-to-Mentee matches. Students and Mentors won't have access to this view. Admins will be able to see all the students and mentors that have applied to the program in a particular year, and through the user interface, be able to match students with mentors. Admins can search for particular tags to assist them in matching mentors with students - for example, filtering the students and mentors based on a particular career interest. Admins can click on a name in the matching view to be able to see a "quick view" of the user's info.

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Mentors

<input type="checkbox"/>	Ryan Banks
<input checked="" type="checkbox"/>	Alex Johnson
<input type="checkbox"/>	Jane Tsai

Students

<input type="checkbox"/>	Alice Brown
<input type="checkbox"/>	Nick Kovacs
<input type="checkbox"/>	Kevin Matthews
<input type="checkbox"/>	John Smith
<input checked="" type="checkbox"/>	Emily Wang

