

LE/EECS 3461 A - User Interfaces (Summer 2021-2022)  
Assignment 2

**Instructor:**

Professor Sarah Akhavan Kazemzadeh

**Group members:**

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Pak Hang Cheung 218428953

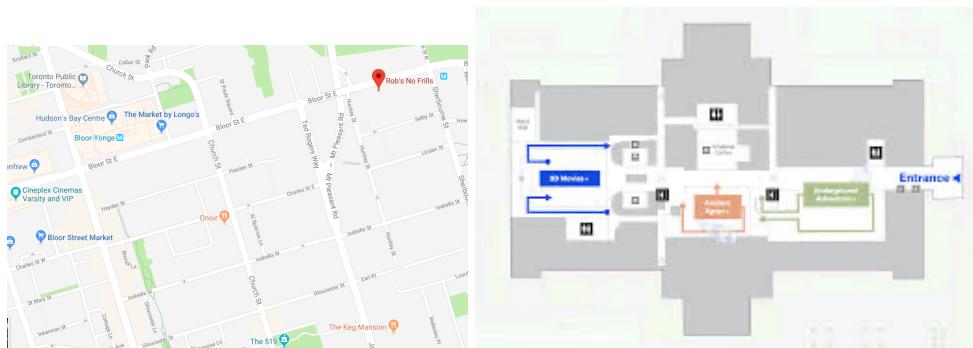
Faruq Afolabi 217219619

**Conceptual Model**

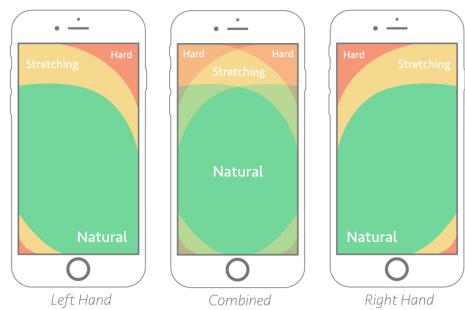
The conceptual model was made to reflect the look and feel we expected our final design to have, done in the form of a moodboard.



We added a picture of our colour palette which we decided on because our product is primarily tailored towards York university students. Therefore, it would need to reflect York university's primary colours.



The pictures of maps show buildings both indoor and outdoor, because our product is meant to help our users navigate around campus and inside buildings that they may not be familiar with.



We also have images of the phone in hand and a person walking with it, because our product is meant to be used on mobile devices, and also usable by people on the go. The image showing hand placement shows that our product has considerations of user hand placements to ensure that it is the most comfortable.



## HOW I'M TRANSITIONING BACK TO IN-PERSON LEARNING THIS FALL



These pictures were placed to reflect the fact that our product is primarily meant to **GUIDE** people as they **TRANSITION** back to in person learning.

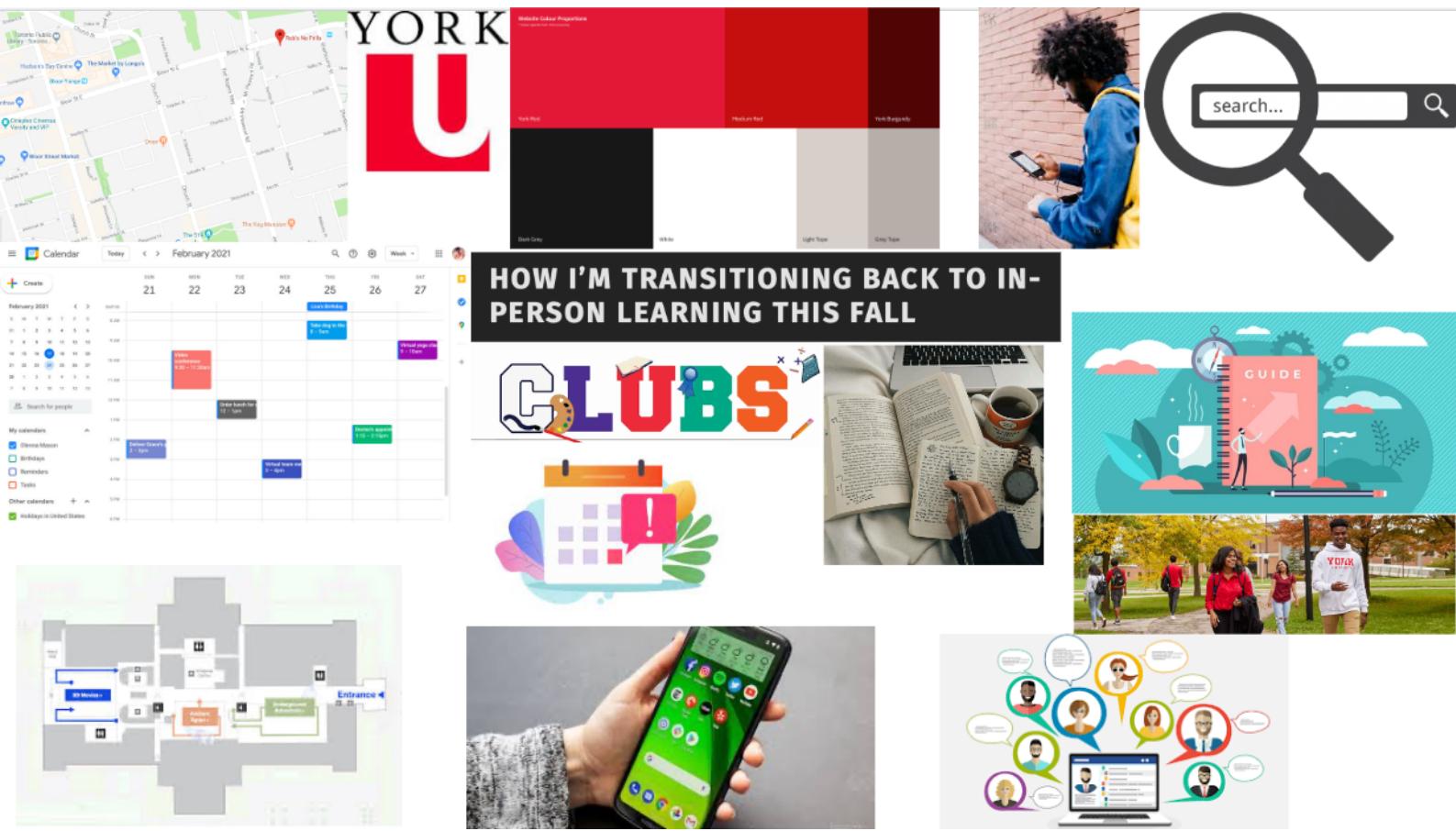


These images represent the fact that the users will be able to find information that they need while using the product, including things like clubs that they may be interested in.

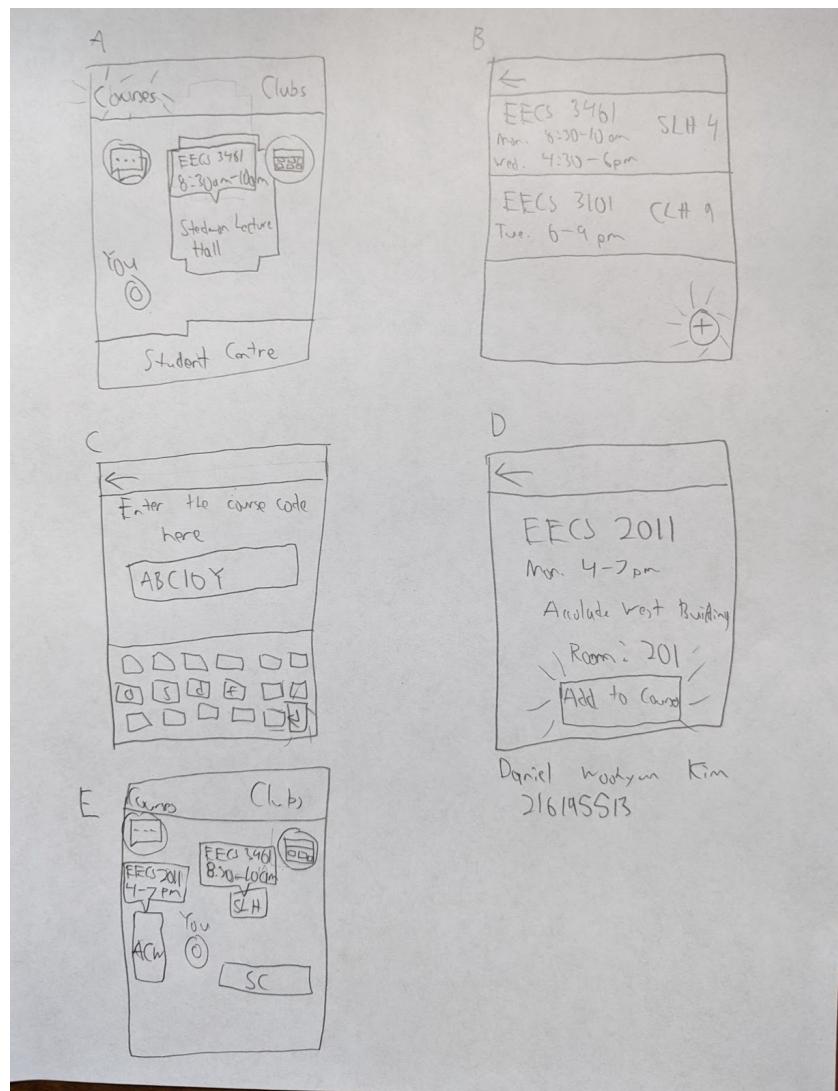


This last image was placed to show that our product is also meant to help our users connect with each other, which will end up being represented as the forum feature we have in our design.

All coming together to form our **final conceptual** model we have below.

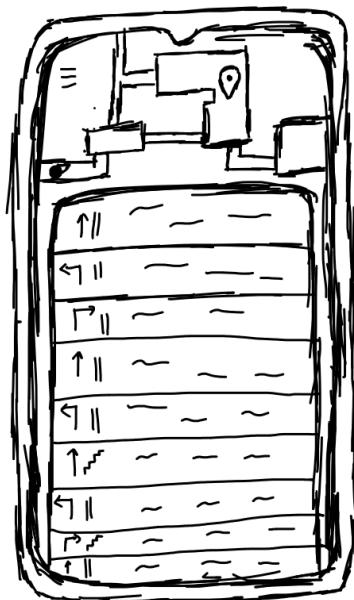


# Individual lo-fi prototypes

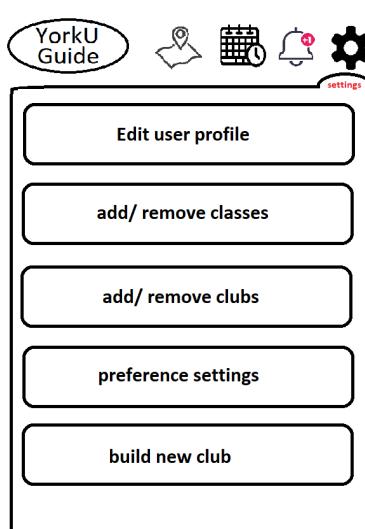
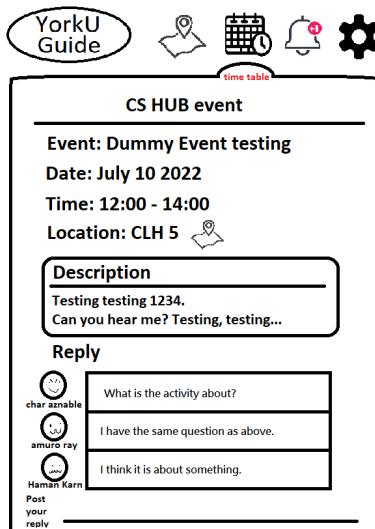
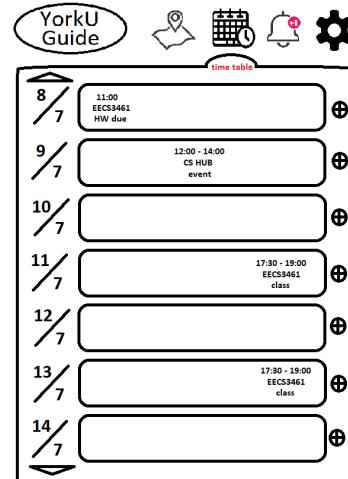
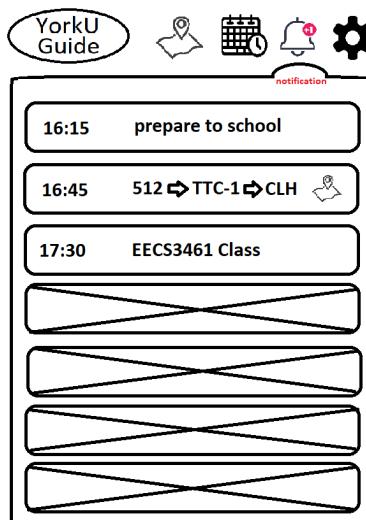
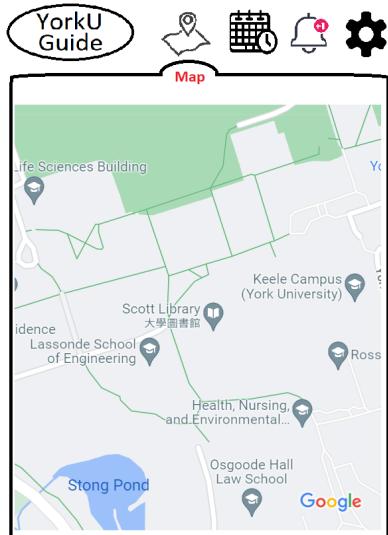


(By Daniel Woohyun Kim)

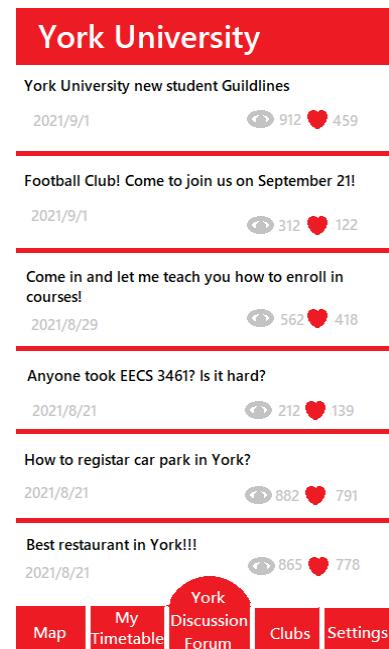
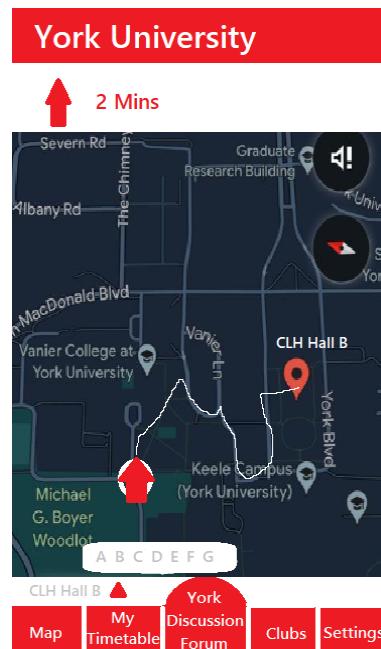
We chose the add class function from this prototype.



(By Faruq Afolabi) We chose the inside building map function from this prototype.

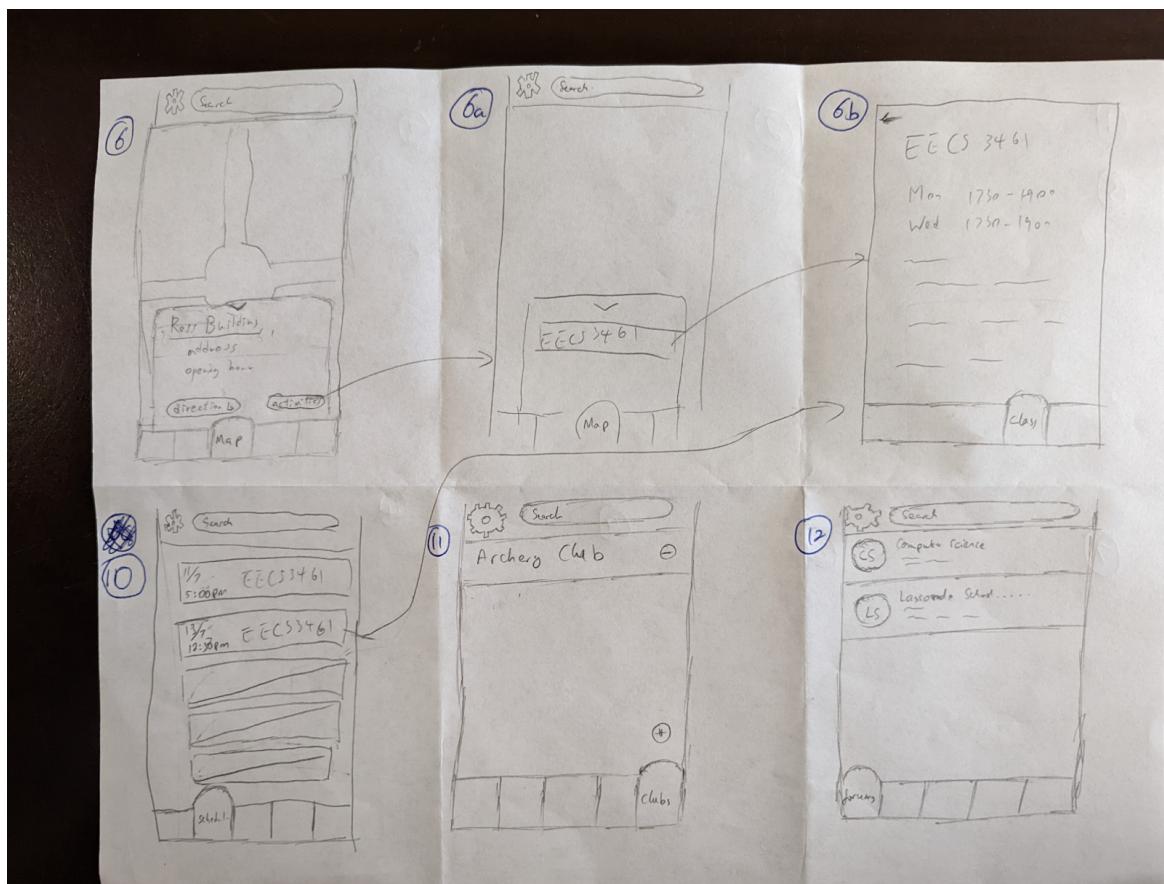
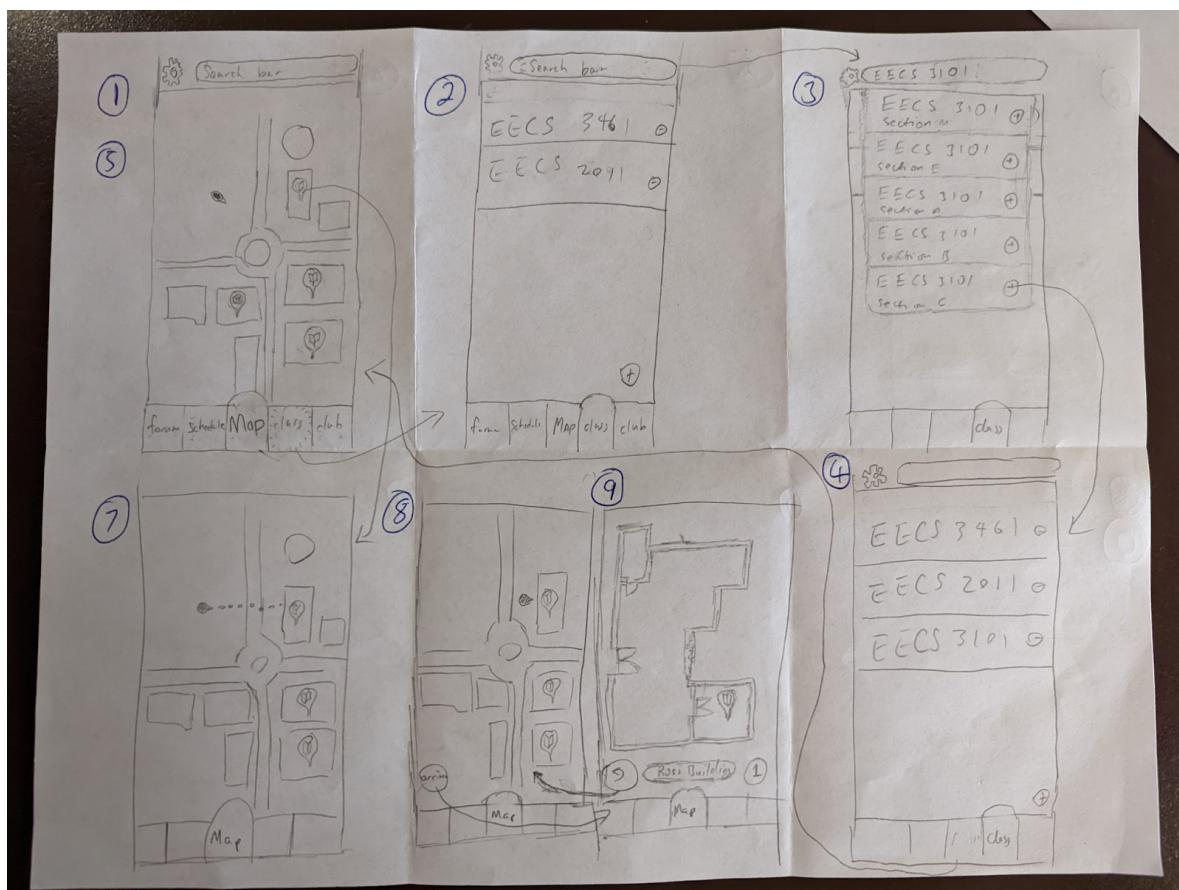


(By Pak Hang Cheung, Apeiron) We chose the schedule function from this prototype.

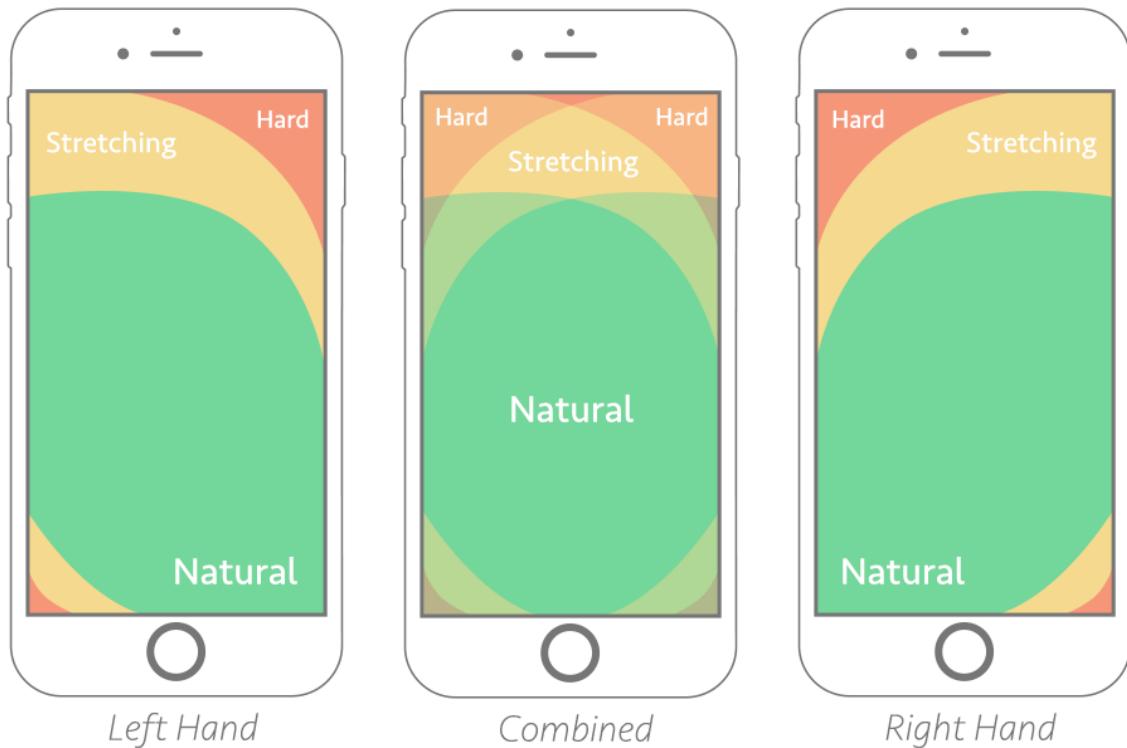


(By Ho Chun Chan, Edwin) We chose the discussion forum function from this prototype.

# Final lo-fi prototype



We decided to make a mobile application because it is more portable and accessible for students to use. Moreover, since one of the main functions is a map, the GPS system in phones can be utilized. We kept the consideration of one thumb usage by having frequently used function at the bottom of the screen.



The screen is divided into 3 parts, lower bar, middle screen, and upper bar. The lower bar, lower and right part of the middle screen lies in the natural area of right-hand users.

The lower bar permanently shows the 5 main functions, from left to right being forum, schedule, map, class, and club. By pressing these buttons, the middle screen will be switched according to the button pressed.

Schedule, map, and class are placed in the middle of the lower bar. It can be easily pressed by right-hand and left-hand users, which helps ease of use when they are expected to be used in a hurry.

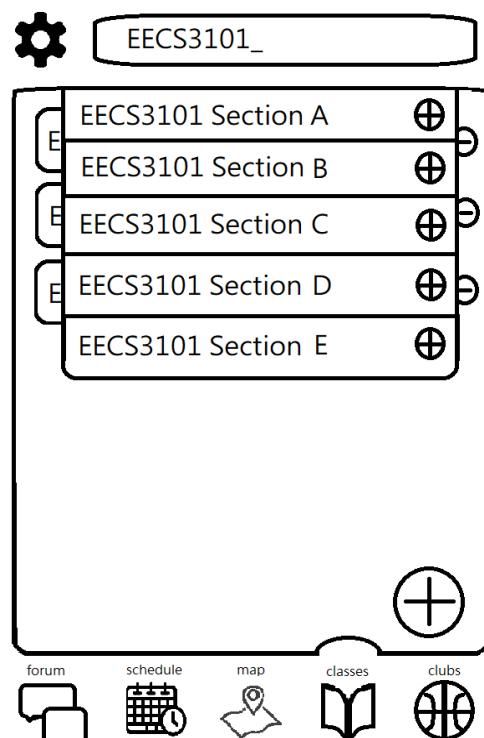
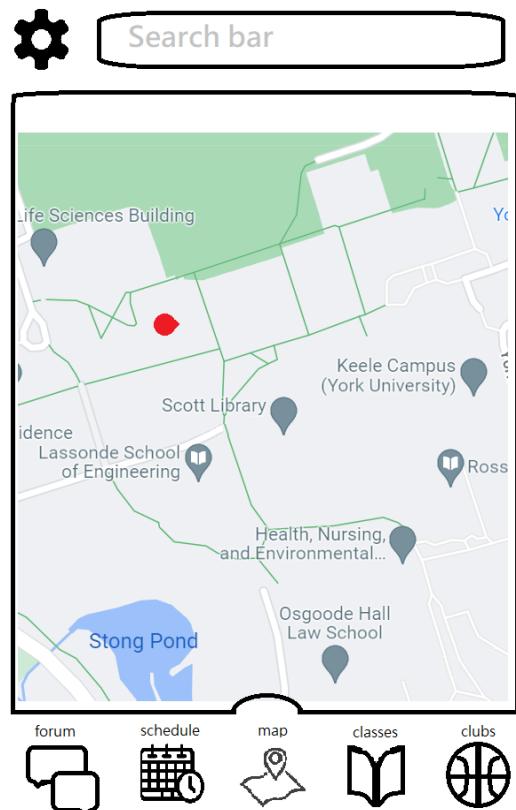
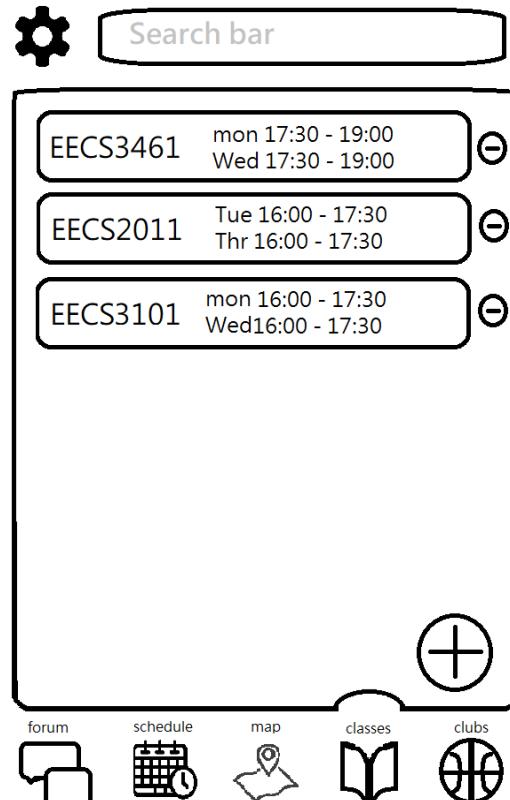
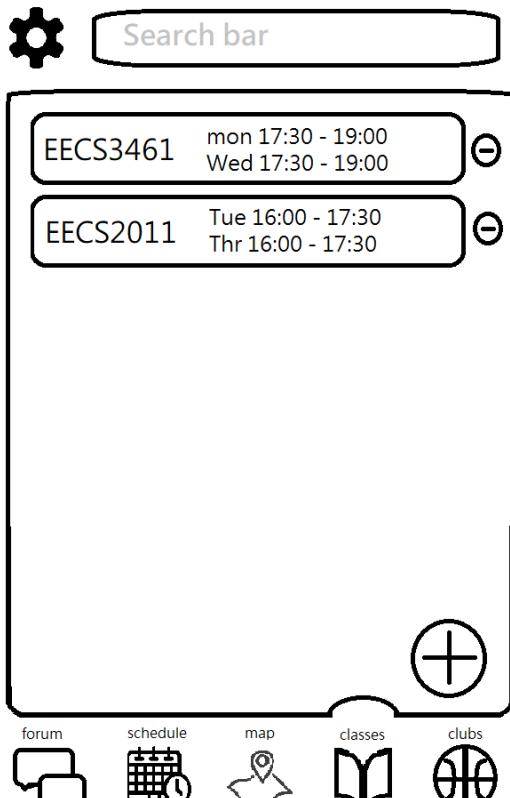
The middle screen operates the function. It is mainly for view, but sometimes buttons appear in the natural area.

The upper bar shows the user's settings and the search bar. These functions are less common, thus do not need to be as accessible as other functions. When the search function is used, a keyboard appears at the bottom of the screen, which lies in the natural area.

# Wireframes

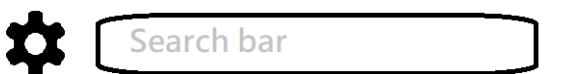
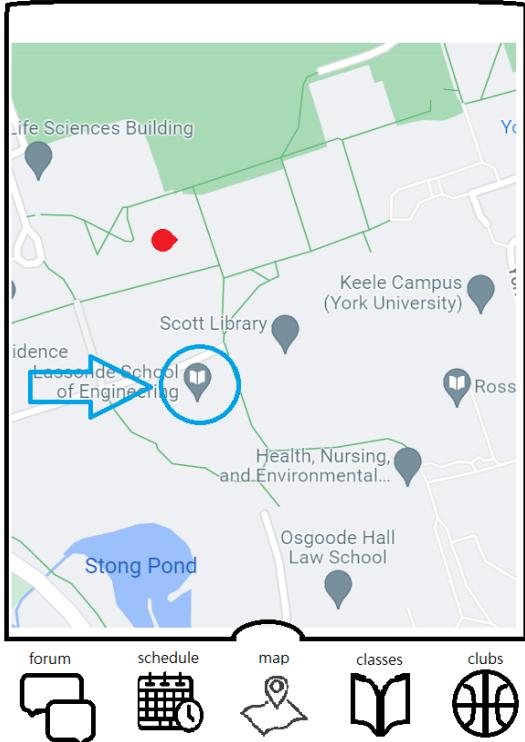
► The “map” page is the index page. Users are able to see their current location.

▼ When the users click the “classes” icon, it will show their courses.



▲ Users are able to add their courses by typing in the search bar.

◀ After they click the add "+" icon, it will be shown on the class page.



## EECS3461

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Mon 17:30 - 19:00 CLH B  
Wed 17:30 - 19:00 CLH B

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due dates:

Assignment 2	23/7
Assignment 3	24/7
Final Exam take home	8/8
Final Exam in person	17/8

[+ Add](#)

forum schedule map classes clubs

◀ The “book icon” in the map means the user has a class in that place. Clicking “Book icon” shows details including directions.

▼ “Direction” button Is more frequently used, it is located left for right handers.  
(Building’s info)

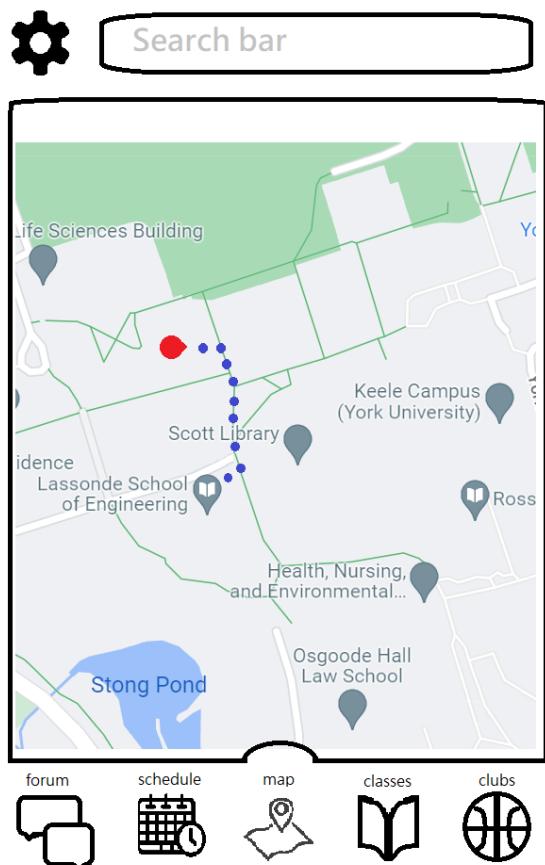
A map of Keele Campus showing various buildings and landmarks. A blue circle highlights the Lassonde School of Engineering building. Below the map, a box provides information about the building:

**Lassonde School of Engineering**  
204 Bergeron Centre, North York, ON M3J 2S5  
opening hour: 8:00 am - 8:pm

[Direction](#) [Activities](#)

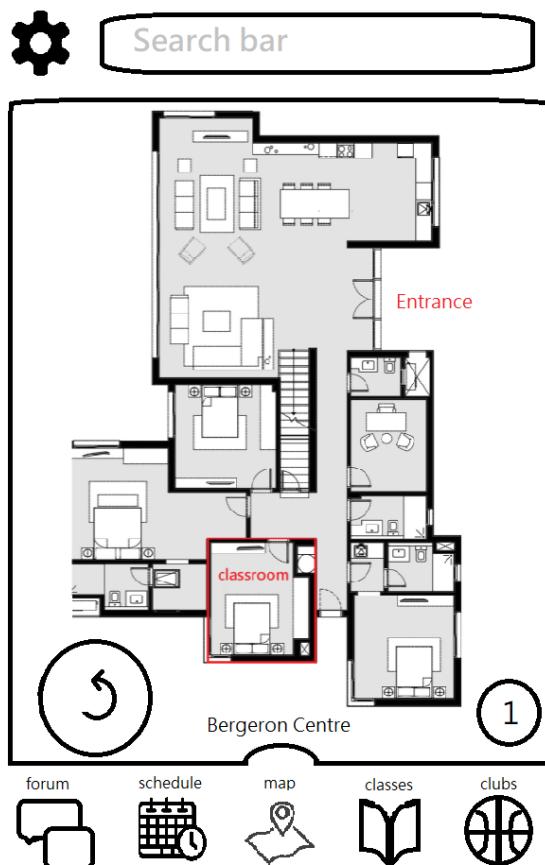
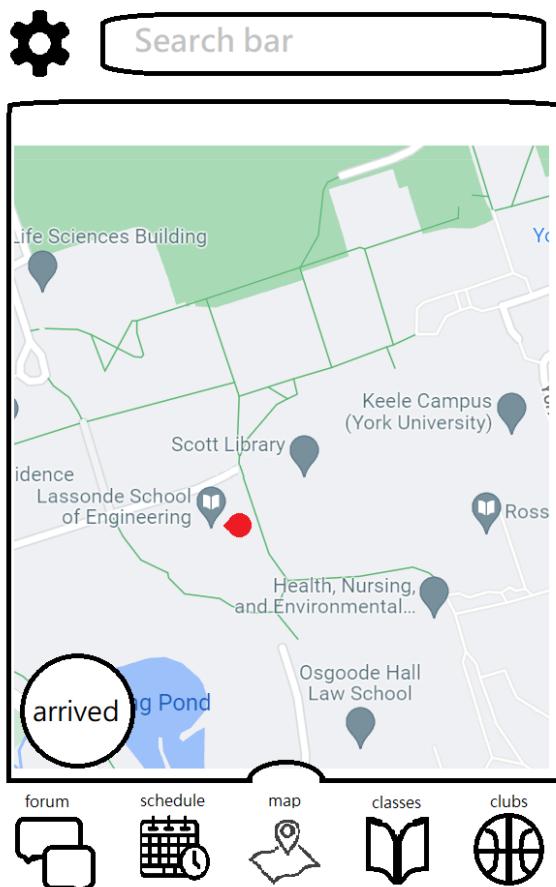
forum schedule map classes clubs

◀ Clicking “Activities” shows related activities, including lessons and club events.  
(Activity’s info, such as classes)

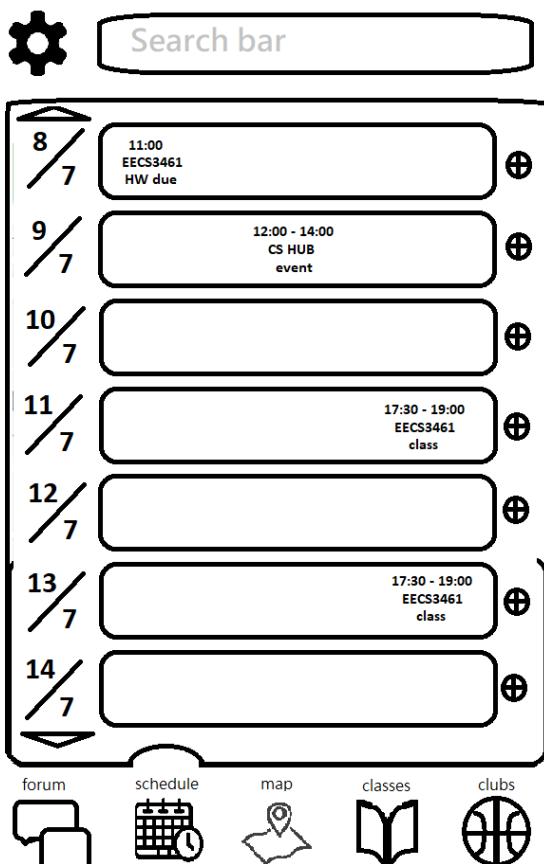


◀ Clicking “Direction” shows the path to the destination.

▼ After you reach the destination, the “Arrived” button will appear. This button switches the main screen to the floor plan.

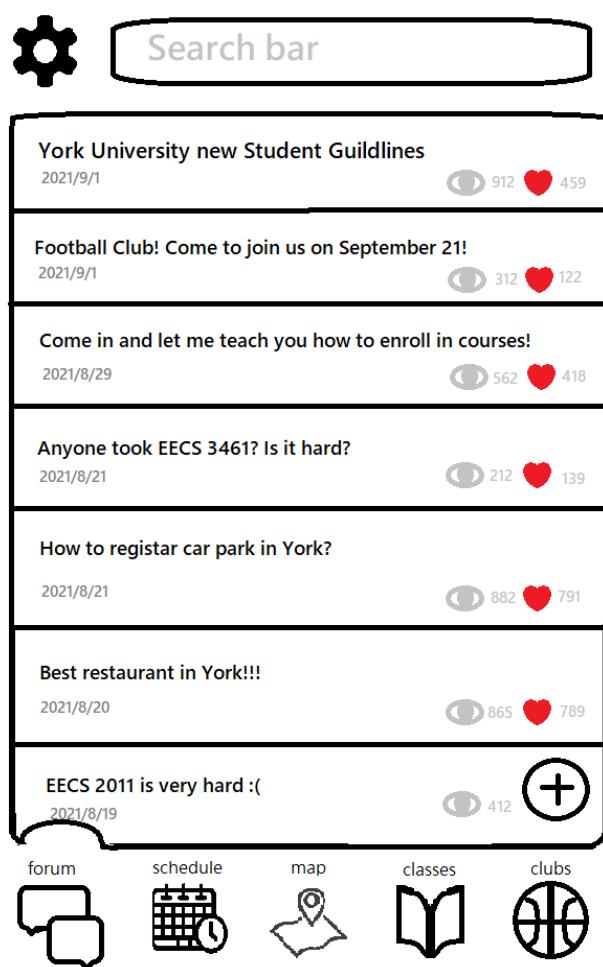
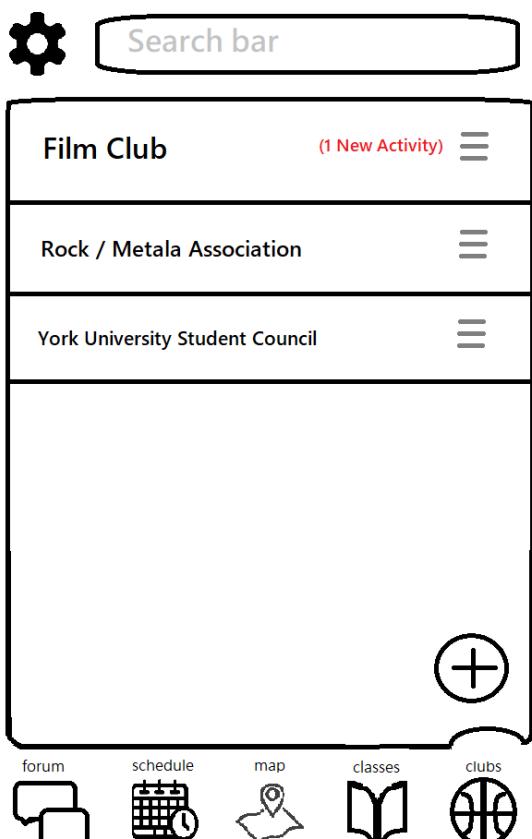


◀ Floor plan, able to switch the floor if necessary. Easy to locate even GPS is not available.



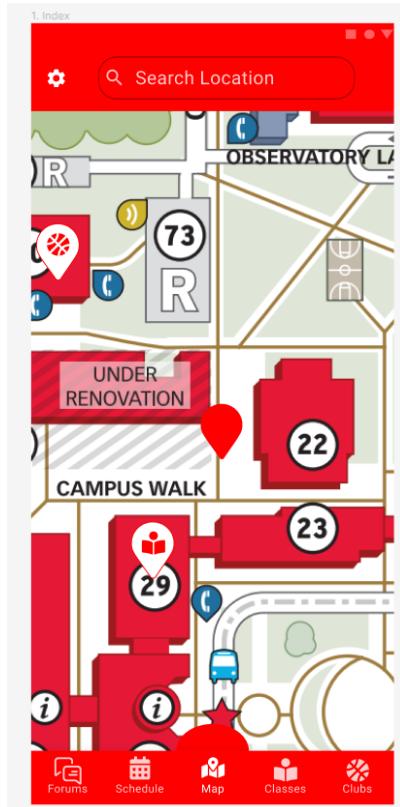
◀ “Schedule” function is able to edit the user’s classes, exams, and assignments.

▼ “Club” page will show user’s joined club. New activities or club news will have notifications. Able to move their order position and add new clubs.



◀ “Forum” function creates a platform for users to ask, share, and make new friends. Not only for students to make posts, view, like, and comment, school departments can also post official news and activities.

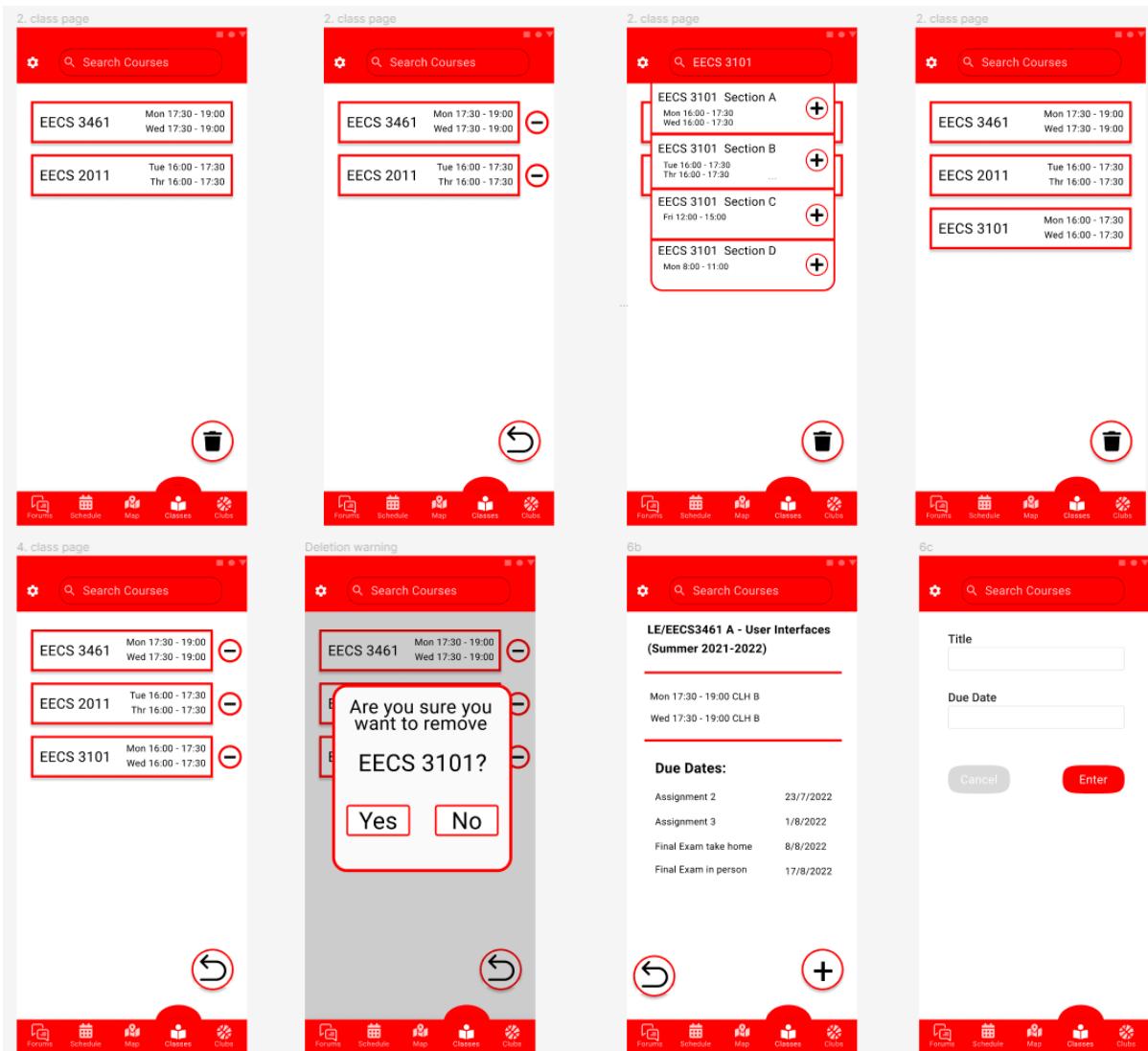
# Interactive Prototype



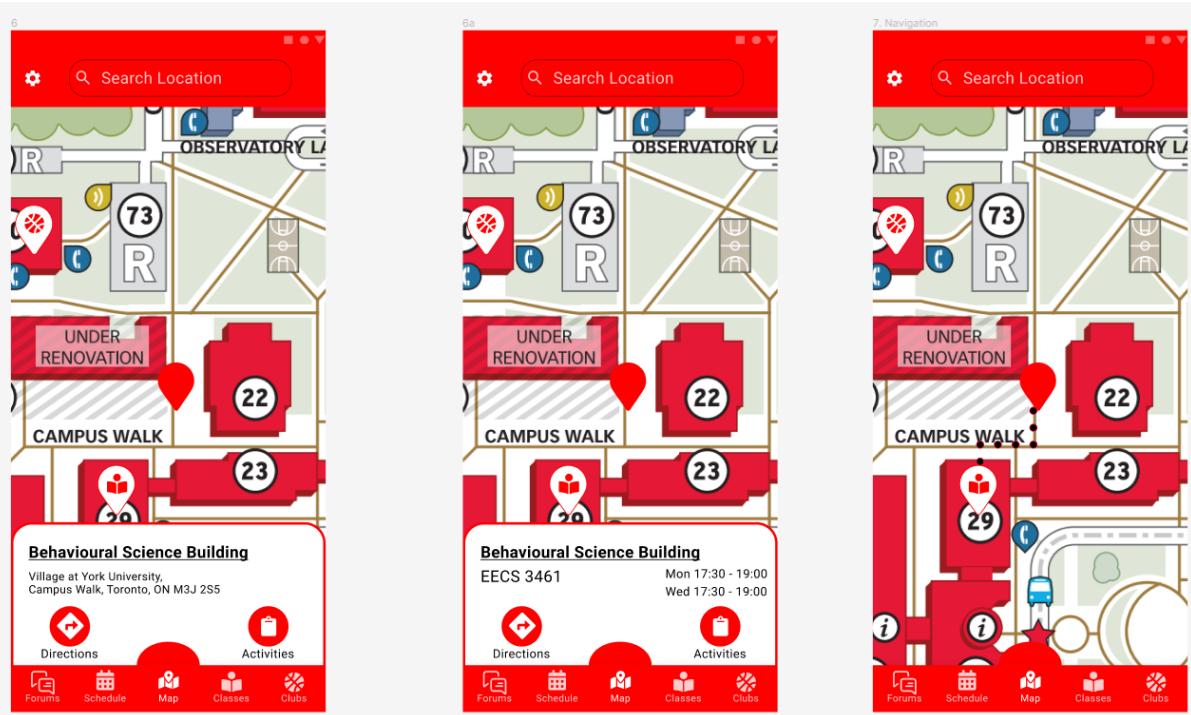
Main menu, starting at the map function. It is because some students need the map function for urgent case.

A screenshot of a user profile and settings page. The top navigation bar is red with a gear icon and a search bar labeled "Search Topic". The main content area shows a user profile for "Barry Alan" with details: Major: Business, Year: First year, and Student ID: 21477777. Below the profile, there is a bio: "Hello, I am first year in York! I love sport and video games." followed by hashtags "#Basketball #VideoGames". There are also settings for "Dark Mode" (with a toggle switch) and "Font Size" (with a slider). At the bottom, there are links for "View Post History", "Log Out", "Delete My Account", and "Report A Problem". A red navigation bar at the very bottom contains icons for "Forums", "Schedule", "Map", "Classes", and "Clubs".

Page for setting up user profile and preferences.



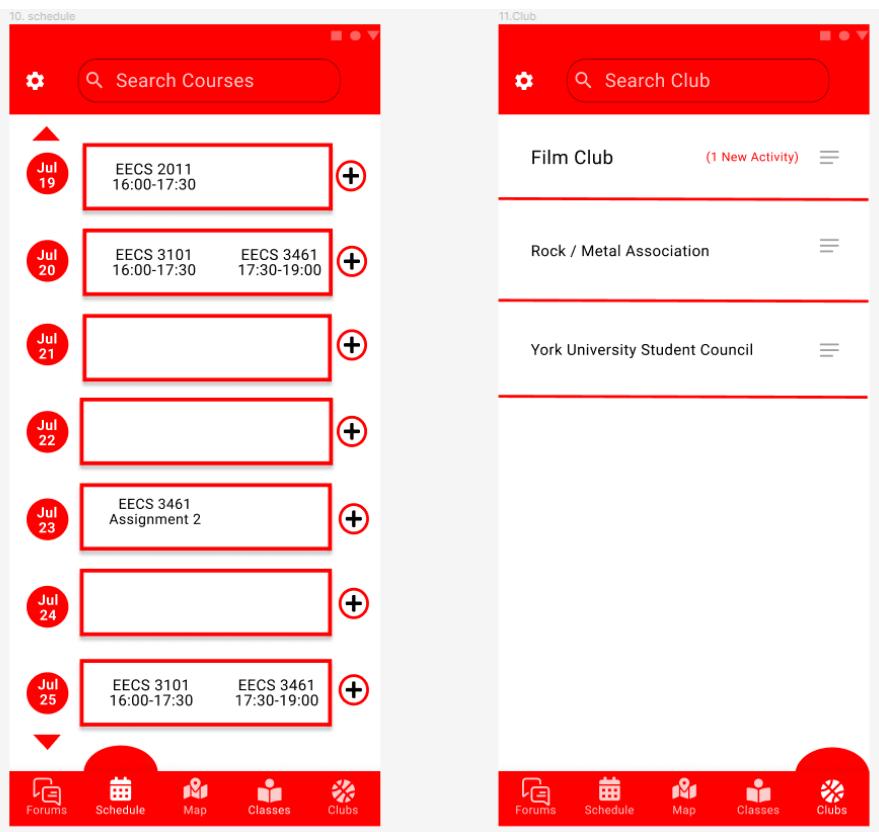
The screens for showing the process of adding and deleting courses.



User clicks on locations, gets details on location and activity there. User can click directions to get there.



Once user gets closer, they can click “arrived” button to transition to the building floor maps. They are able to change floors.



Calendar and clubs page. The former shows the following activities/classes users need to keep in mind. The latter screen allows users to view new activities and news from the red notification. They can add more clubs by the search box.

Forums page, shows how to create a new post. Users can also view, like, and comment on posts. School department can also post student guidelines and official news.

# **Link to Interactive Prototype**

The link of figma:

<https://www.figma.com/proto/zR1mDLZcAbLe9yz0oUvwGS/A2-Interactive-Prototype?node-id=2%3A7&scaling=scale-down&page-id=0%3A1&starting-point-node-id=2%3A7>

# **Link to the Video(high quality version)**

<https://drive.google.com/file/d/1Y5AK8H24xJqN-OcP8Fdq1LkTHjAcl32v/view?usp=sharing>

## **Pictures References:**

1. York University color board

<https://www.seanreibling.com/portfolio/campus-workplace-study>

2. York University Logo

<https://www.timeshighereducation.com/world-university-rankings/york-university>

3. York University Student

<https://www.universitystudy.ca/canadian-universities/york-university/>

4. Google Map

<https://www.google.com/maps>

5. Floor Plan

[https://www.reddit.com/r/gis/comments/mcaqpc/opensource\\_indoor\\_map\\_built\\_with\\_openlayers\\_qgis/](https://www.reddit.com/r/gis/comments/mcaqpc/opensource_indoor_map_built_with_openlayers_qgis/)

6. Smart Phone with Green Background

<https://www.theverge.com/2019/4/12/18308139/motorola-one-button-navigation-gestures-moto-g7-how-to-use>

7. Navigation on the phone

<https://www.offset.com/search/navigation+on+phone>

8. Thumb comfort zone

<https://www.smashingmagazine.com/2016/09/the-thumb-zone-designing-for-mobile-users/>

9. Guide image

<https://www.shutterstock.com/image-vector/guide-vector-illustration-flat-tiny-technical-1506795497>

10. Transition

[https://blogs.studentlife.utoronto.ca/lifeatuoft/2021/07/06/how-im-transitioning-back-to-in-person-learning-this-fall/?utm\\_source=rss&utm\\_medium=rss&utm\\_campaign=how-im-transitioning-back-to-in-person-learning-this-fall](https://blogs.studentlife.utoronto.ca/lifeatuoft/2021/07/06/how-im-transitioning-back-to-in-person-learning-this-fall/?utm_source=rss&utm_medium=rss&utm_campaign=how-im-transitioning-back-to-in-person-learning-this-fall)

11. Google Calendar

<https://edu.gcfglobal.org/en/google-tips/getting-started-with-google-calendar/1/>

12. Calendar icon

<https://www.istockphoto.com/vector/deadline-notification-event-reminder-on-calendar-vector-flat-cartoon-icon-selected-gm1223979431-359717034>

13. Reading and writing aesthetic

<https://www.popdaily.com.tw/forum/life/1009805>

14. Search Engine

[https://toppng.com/free-image/search-engine-marketing-icon-png-search-engine-icon-PNG-free-PNG-Images\\_170778](https://toppng.com/free-image/search-engine-marketing-icon-png-search-engine-icon-PNG-free-PNG-Images_170778)

15. Club image

[https://glencairnps.ocdsb.ca/g\\_c\\_p\\_s\\_clubs](https://glencairnps.ocdsb.ca/g_c_p_s_clubs)

16. Virtual Workshop

<https://www.naspspa.com/workshops-seminars/>

- Originally came from shutterstock

17. Keele Campus Map

[https://acmaps.info.yorku.ca/files/2021/06/KEELE\\_Map\\_Colour-2018.pdf?x56546](https://acmaps.info.yorku.ca/files/2021/06/KEELE_Map_Colour-2018.pdf?x56546)

18. Woo Building Floor plan

<https://www.archdaily.com/777773/royal-college-of-art-woo-building-haworth-tompkins>

19. Icons used in Figma

<https://www.figma.com/community/file/1114001199549197320>

<https://fontawesome.com/search?m=free>

<https://www.figma.com/community/file/778763161265841481>