

Project Proposal

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Purpose

We are building an android application that will allow UWaterloo students to find individual and group study spots on campus. Finding available study spots around campus is known to be difficult since the availability depends on various factors including date, time and location. Through this application, we hope that students can locate the nearest available spot and explore new study spaces on campus!

Background

The app is aimed towards all University of Waterloo students looking for study spots on campus. It will be a great resource for students looking to explore new study spots whether it's for individual or group study, as well as to locate the nearest available spot. It is often difficult to know details about the spot without being there, so this app will provide the necessary information to the students. It will contain details about the location such as charging stations, projectors, whiteboards and information on whether it is a bookable spot. It is also difficult to visualize and locate what the spot looks like, so the description will contain photos as well as directions to the spot. Moreover, once the user has decided the spot, they can see how busy the spot is in real time.

Requirements

1. User Authentication - Advanced Feature : Support multi-user scenarios
2. Construct a database schema for the list of study spots
 - a. Have an API to connect to the Frontend
 - b. Build the remote database functionality and connect it via Firebase
3. Display the list of study spots on the front-end
4. Filter and search study spots. For instance, users can filter on the type of study spot (group/individual), availability of charging outlets, building hours, bookability, and any faculty specific access.
5. Click on the list object (study spot) and redirect to a different screen with the study spot information (photos, outlet, description, opening/closing times)
6. Click on a button that redirects you to google maps which provides directions and leads you to the study spot you are looking for
7. 5 star rating system and comments on the description page
8. Notification that pops up to ask the user to add their input on the busyness - Advanced Feature: Author your own cloud service
9. Update the busyness column of our database and incorporate it into the frontend with real time data

Shelby Ann

BIO

Shelby is a University of Waterloo Health Science student. She has noisy roommates at home and needs some quiet study spots on campus. She also needs a place to study with friends in group friendly areas.

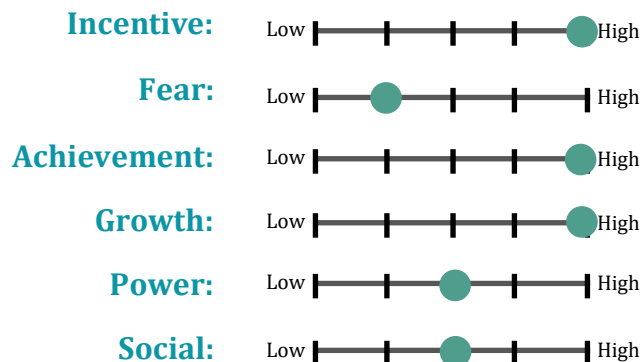
GOALS

Shelby wants to be able to find nearby study spots based on noise level and group size. Our application will be able to search and filter study spots based on Shelby's needs.

FRUSTRATIONS

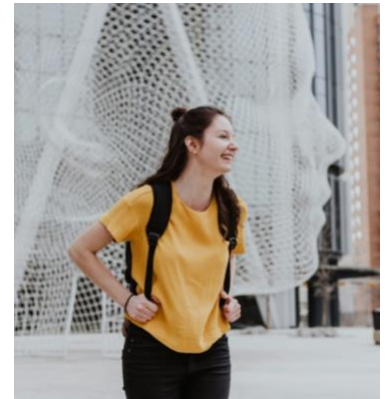
We are addressing the difficulty to find study spots that meet her needs and are free. She often goes to a spot only to find it full. We want to avoid recommending study spots that she doesn't have the credentials to access.

MOTIVATIONS



QUOTES

"The study environment is very important to me. It affects how productive I am when I'm studying."



Age: 22

Occupation: Part-time Sales Associate

Status: Student

Location: Waterloo, ON

Archetype: Dreamer

Personality: Introverted

DOMAIN AWARENESS

Shelby struggles with finding good study spaces on campus. She's tried unsuccessfully a few times.

TECH KNOWLEDGE

Shelby is very comfortable using her mobile phone.