CSC 210 PROJECT PROPOSAL

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Some Webapp Info
Name: Study Spot (urstudyspot.com)
Slogan: Studying has never been smoother!
Theme colours: Turquoise and purple

GitHubLink
https://github.com/Maryfrances-U/CSC210Proj

Project Description

Millions of students around the world, no matter their year, grade or popularity, suffer from the same, terrible problem: not having a place to study! As they wander around campus, in the futile search of a place to study, precious minutes that could have been spent finally understanding the complicated Physics formula are wasted. That's where urstudyspot.com comes into play! Here to make studying as efficient as possible, Study Spot allows students to find study spots around campus and book them before they embark on their endeavor.

Study Spot's main database is one that lists all available-to-book study spots on the U of R campus. Each spot will have various fields such as how social the location is, loudness level, distance from food places in case you want to grab a quick study snack, and many other attributes to cater to each student. To book a study spot, a user must first create an account and, upon viewing the spots available within the selected time frame, make their choice! There is a wide array of study spots for the student to choose from, from tables in Gleason to whole rooms in Douglass, the far-off reaches of the Stacks, and even the leisurely chairs on the Rush Rhees balcony.

Studying is already unpleasant enough, urstudyspot.com is here to help. *Studying has never been smoother!*

Project Outline: How We Will Meet The Minimum Requirements

An outline of how our proposed project will meet the minimum project requirements

- Allow users to create accounts
  - In order for a user to view/book available study spots, they must have a StudySpot account. Users would have to sign up with usernames and their school emails (example@u.rochester.edu) in order to create an account. As this website is exclusive to the University of Rochester, they must have a valid school email.
- Store appropriately hashed passwords
  - The purpose of the passwords are to keep user accounts secure. We don't want bots booking study spaces and thus preventing actual students from using them. Valid passwords must follow the NIST guidelines.
- Accept and store user data in database
  - After the user successfully registers their account, we will store their information inside a SQLAlchemy Database. Each record in this database will have user id, username, (hashed) password, email, and possibly a field that keeps track of the user's preferred study options.
- Provide that data in a meaningful way through a web interface.
  - Our website urstudyspot.com, as explained in the project description, will allow users to view and book study spots. When you visit the site, there will be three button options: Sign In, Sign Up and Explore Libraries. Explore Libraries will not show the available spots because that would defeat the purpose of the website as the information will not be properly updated, but instead list all the libraries and buildings with spots available on the website. It is meant to be as a way to entice students to create an account. Sign In will allow the creation of a new user. Sign Up will allow an existing user to log into their account. Both Sign In and Sign Up, if successful, will redirect to the Book Spot page, which is the page that will allow the user to book their study spot. This is the "providing of data" part. First, the user will select the desired date and time from a dropdown list. The list of study spots available at that time will appear as a check-box list. The user will also have the option to filter the results to find the perfect study spot for them. The student can choose to book an appointment at a specific library for a specific number of hours, up to 3 hours per day. There will be another page, the User Homepage. Apart from the classic "Hello, Name!" greeting, the page will provide a listing of all the user's upcoming bookings. It will also provide a button that will allow the user to edit their account. After a booking has been successful, the website will redirect to the user homepage, and their "Upcoming Bookings" list will have been updated, thus fulfilling the purpose of the website.
- Serve a reasonable purpose

○ We are helping students save time (of wandering around campus, looking for a study spot) by giving them access to a platform with study spots availability in various locations around the campus customized for their needs. Every one of us on our team would love to have this as a resource.

Project Outline: How We Will Go Beyond The Minimum Requirements

An outline of the ways our project will go beyond the minimum requirements. Since we have yet to fully grasp these topics, we do not go into great detail as to how we will implement these, but we believe they would serve a meaningful purpose in our project.

- Email confirmation on accounts for password reset
  ○ Send actual emails
- Email confirmation on booking
  ○ Send email confirmation
- REST API
  ○ REST stands for **Re**stful **S**tate **T**ransfer. It is basically an approach to or an architectural style for writing API. There will be a separation between client and server routes.
- OAuth
  ○ Allow users to sign in using Google account

Additional Features of Our Project

- We will create our own database with all the availabilities of the study places offered as well as their "volume level", number of seats, brightness level, etc.
- We will limit the number of hours a person can book a table or a place (keeps track of time and alerts user when their appointment is about to end).
- Users will be able to change their passwords.
- Users will be able to filter through available study spots.

Who's Who?

Our Backend Designers

Ethan - Databases for users and study areas

Alper - Registration form (registering account, preferences-noise level-), Flask login
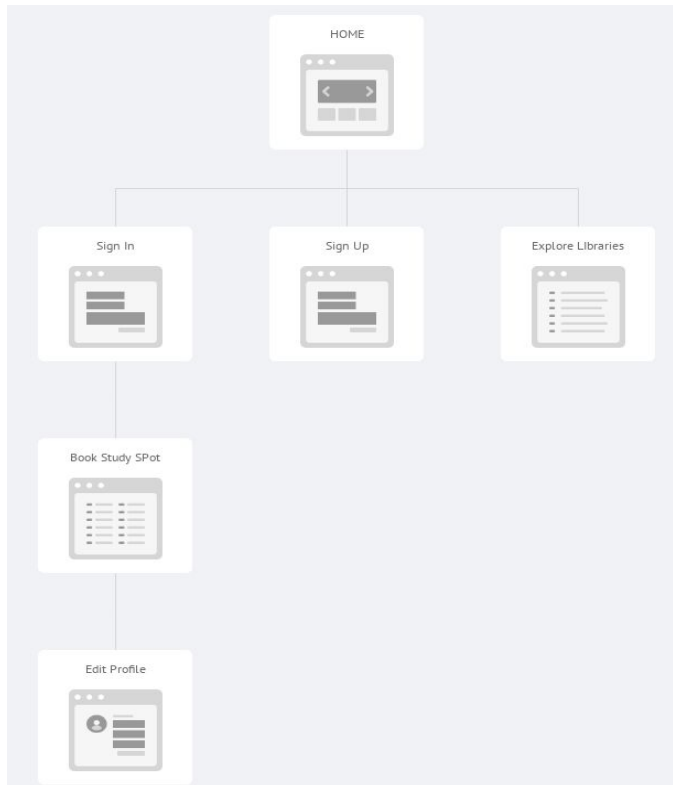
Our Frontend Designers

Maryfrances - Pages and layout

Junis - Theme

Of course, all members will be involved in both backend and frontend matters, but each person will sort of specialize in the area next to their name.

Page Flow

Sign In

Home Page

Sign Up

StudySpot - Explore Libraries

This is a list of all the available major study spots on urstudyspot.com. Log in to book one!

- Gleason Library
- Carlson Library
- iZone
- Q&i
- Stacks
- Rettner
- Douglass
- Art & Music Library
- Wegmans

StudySpot - Book Study Spot

Select Time: [Start Time ▼] to [End Time ▼]

- ○ Gleason Table 3
- ○ A&M Library Viewing Room 1B
- ● Douglass Room 401
- ○ Rettner Table 12
- ○ Q&i Booth 2
- ○ Q&i Booth 3
- ○ Hylan 110GB

Filter Results

- ☑ Quiet Space (no ta
- ☐ Quiet Space (whisp
- ☑ Private
- ☐ Computers

[Book Spot!]