

Requirements and Wireframes

FortyTwo - Team Assignment #1

Pair #1

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Git Repository

URL: <https://github.com/christinaflo/Explorium-COMS4156.git>

High Priority User Stories

1. As a user, I can sign up for the application.
2. As a user, I can sign into my account.
3. As a user, I can use this app to find notable tourist spots for my destination city.
4. As a user, I can get an itinerary for each city that I plan to visit.
5. As a user, I can learn more details about the tourist spots in the itinerary.

Use Cases

1. Use Case Name: Registration

Description: A user can sign up for the application.

Actors: User

Preconditions: None

Trigger:

- User selects 'create account' option.

Basic Flow:

1. User clicks create account.
2. Create account page appears.
3. User fills in username and password and hits submit.
4. 'User account is created' message is displayed.
5. User is brought to a login screen.

Exception Flow:

1. Username is already taken.
 - a. Present error message prompting the user to pick a new username.
 - b. Go to step 3 in Basic Flow.
2. Username format error
 - a. Display error message reminding the user the rules for creating username(i.e., letters and numbers only)

- b. Go to step 3 in Basic Flow
3. Invalid password
 - a. Present error message with password requirements and prompting the user to pick a new one.
 - b. Go to step 3 in Basic Flow.

Alternate Flow: None

Postconditions:

- The user has an account.

Event:

- Sign-in use case.

2. Use Case Name: Sign-in

Description: A user can sign into their account.

Actors: User

Preconditions:

- The user has signed up for the application.

Trigger:

- User enters their username and password and clicks 'Sign In' option

Basic Flow:

1. User enters their username.
2. User enters their password.
3. User selects 'Sign In' button.
4. User is redirected to home screen.

Exception Flow:

1. Invalid username or password
 - a. Present error message saying "Invalid username or password"
 - b. Go to step 1 of Basic Flow

Alternate Flow: None

Postconditions:

1. The user has the ability to create an itinerary.

Event: None

3. Use Case Name: Find tourist spots in a city

Description:

- User can enter the name of the city and get a list of tourist spots.

Actors: User

Preconditions:

- The user must be logged in to the application (as a guest or registered user)

Trigger:

- User enters the name of a city in search on home screen

Basic Flow:

1. User enters the city name.
2. User selects the 'Find' button.

3. The entered city is valid and present in the database.
4. The system retrieves the corresponding spots in the city and displays them on the application page.

Exception Flow:

1. User enters invalid city name
 - a. Display error message "This city is not covered. Please try another"
2. The action times out
 - a. Display error message "Sorry this is taking too long, please try again later"
 - b. User is taken to home screen
3. The user has been logged out
 - a. Display error message "You have been logged out! Please log in again to continue"
 - b. User is taken to the login screen

Alternate Flow:

- The user clicks a "Next Page" button to view more tourist spot results (step 4 in the basic flow).

Postconditions:

- A list of tourist spots will be displayed to the user.

Event:

- Get an itinerary use case.

4. Use Case Name: Get an itinerary

Description: A user can get an itinerary for each city that I plan to visit.

Actors: User

Preconditions: The user must be logged in to the application (as a guest or registered user)

Trigger: The user clicks the "plan a trip" button on the home screen

1. User is brought to the itinerary page
2. User enters the name of the city they want to visit
3. User hits clicks the submit button
4. A waiting icon is displayed
5. The newly generated itinerary is displayed
6. The user is redirected to home screen

Exception Flow:

1. The city does not exist
 - a. Display error message "This city is not covered please try another"
 - b. User is taken to the create itinerary page
2. The action times out
 - a. Display error message "Sorry this is taking too long, please try again later"
 - b. User is taken to home screen

3. The user has been logged out
 - a. Display error message “You have been logged out! Please log in again to continue”
 - b. User is taken to the login screen

Alternate Flow:

1. Download the itinerary
 - a. User can click the ‘Download the itinerary’ button to download the itinerary
 - b. User is able to enter the name for the itinerary he wishes to download and where the file is put
 - c. A pdf version of itinerary will be saved to user’s device and user will be directed to the homepage

Postconditions:

- The itinerary will be saved and displayed to the user

Event: None

5. Use Case Name: Tourist spot details

Description: Finds details of a tourist spot (e.g., address, hours of operation, introduction).

Actors: User

Preconditions:

1. The user must be logged into the application.
2. The user must have created an itinerary.

Trigger:

1. The user clicks on an item in the itinerary after they click the “plan a trip” button on the home screen.

Basic Flow:

1. The user is brought to the item page for that item

Exception Flow:

1. The action times out
 - a. Display error message “Sorry this is taking too long, please try again later”
 - b. User is taken to home screen
2. The user has been logged out
 - a. Display error message “You have been logged out! Please log in again to continue”
 - b. User is taken to the login screen

Alternate Flow: None

Postconditions: Information about a tourist spot is displayed for the user.

Event: None

Wireframes

1. Login page

<https://wireframe.cc/LGs6yy>

A wireframe of a login page for a website called "Explorium". The page is centered on a light gray grid background. It features a white rounded rectangle containing the title "Explorium" in a large, bold, sans-serif font. Below the title are two input fields: "Username:" and "Password:", each with a small vertical line indicating the cursor position. At the bottom of the form are two rounded buttons: "Login" and "Create Account".

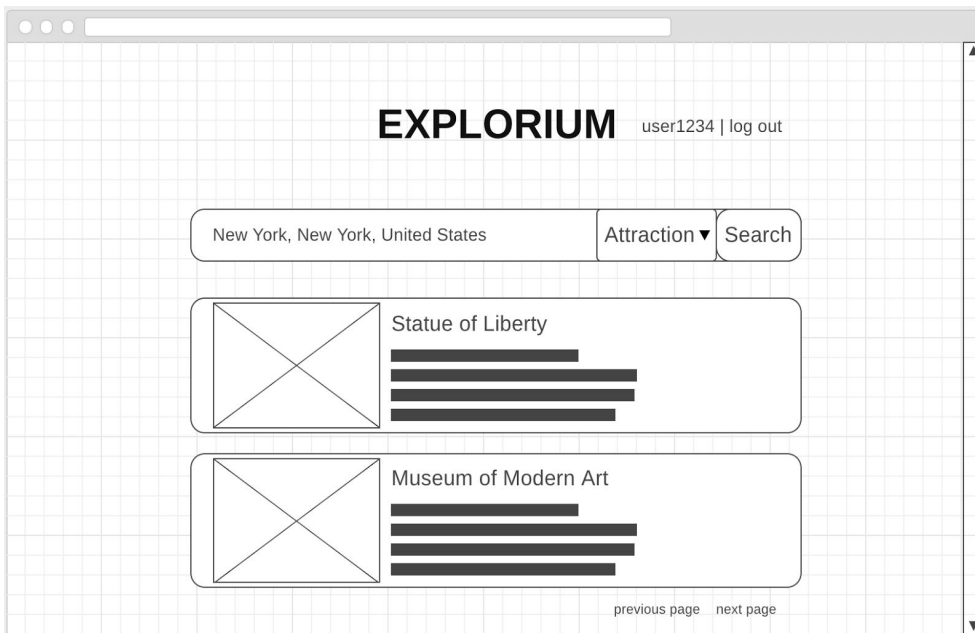
2. Create account page

<https://wireframe.cc/a0Gd1l>

A wireframe of a create account page for a website called "Explorium". The page is centered on a light gray grid background. It features a white rounded rectangle containing the title "Explorium" in a large, bold, sans-serif font. Below the title are four input fields: "Username:", "Password", "Full Name", and "Email", each with a small vertical line indicating the cursor position. At the bottom of the form is a single rounded button labeled "Create Account".

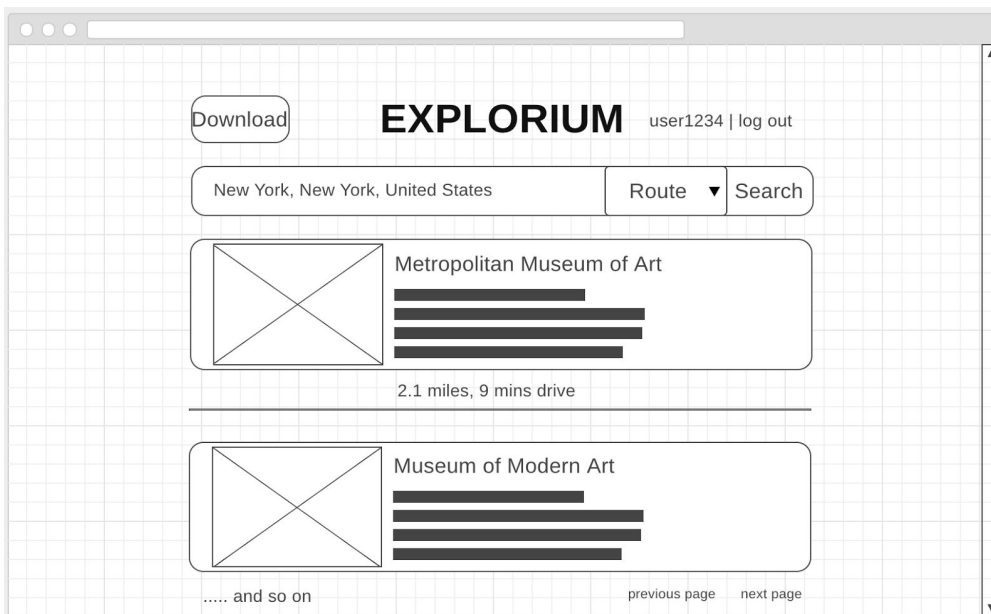
3. Home page(find attraction spots)

<https://wireframe.cc/2Hjmai>



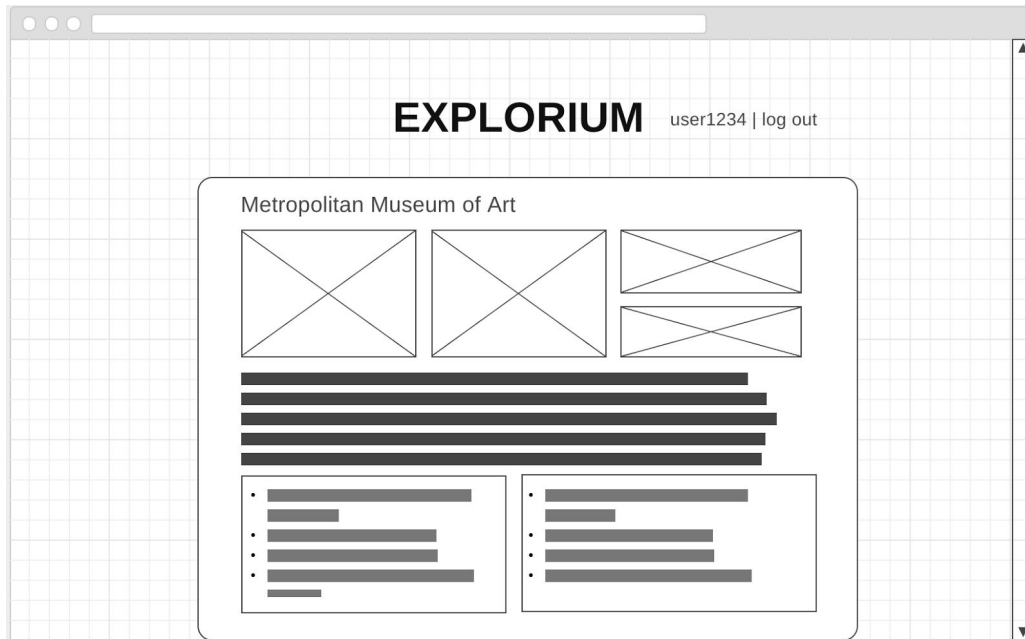
4. Home page(create itinerary)

<https://wireframe.cc/qRuIDi>



5. Item page

<https://wireframe.cc/Xu2rlp>



Pair Responsibilities

Pair #1

This pair is responsible for frontend development, as well as integration with the Flask server. Their main responsibility will be creating the UI and all the components visible in the wireframes. They will also use the Google Maps plugin to visually display tourist spot location information.

Pair #2

This pair is responsible for backend development. They will create, maintain, and query the database, as well as use the Google Maps/Places APIs and TourPedia datasets to gather metadata about the tourist attractions per location. They will also create the algorithm pertaining to itinerary recommendation. This includes filtering tourist attraction recommendations based on filters we provide, the most efficient order of visiting the attractions, etc.