Team MacroHard (016-01)

Altay Uenal, Biswas Gauli, Freddy Perez, Thor Breece, Rayner Susanto, William Ruiz CSCI 3308 Software Development and Tools Course University of Colorado Boulder Boulder, CO, 80303

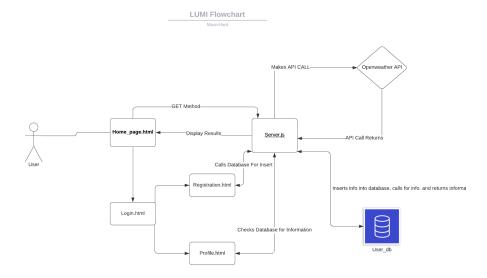
LUMI - Project Milestone 4

27th October 2021

REVISED FEATURES

- 1. Snow map feature will be delayed until better API is found, for now weather report table will be shown during the homepage
- 2. Added recommended features for skiing gear
- Trip advising will not be added in the feature since there are not much API calls to develop for this features
- 4. Adding hashing password feature for users

ARCHITECTURE DIAGRAM



FRONT END DESIGN



Welcome to LUMI

This site is used to show the current weather and snow conditions of various areas of Colorado. Showing the path to Snow

Most Fresh Snow		Most Famous Ski Resort Reprt		Rece	Recent News	
Location w most fresh snow Info about location w most fresh snow (js)		Info of most famous resort(js)		Rece	nt News HERE	
Location	Current Weather		Snow pack		Open	

SNOW PACK OF LOCAL

ADD JS TO ADD ALL LOCATIONS

127.0.0.1:5500/Lumi/views/home.html ight CSCI-3308 MacroHard Fall 2021



LUMI by Macrohard "Slogan or Caption here"

Lumi aims to iLUMInate you...

We use a variety of APIs including...

IS OPEN OF LOCAL

Meet the Developers!













LUMI Home Profile About Us - Login/Registration

Lumi

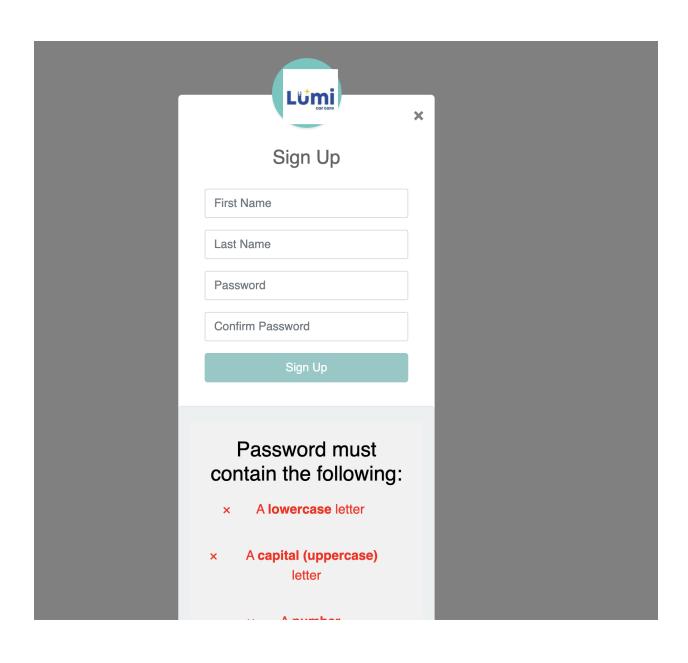
Please sign in

Email address
Password

Remember me I Forgot Password?

Sign in Sign Up

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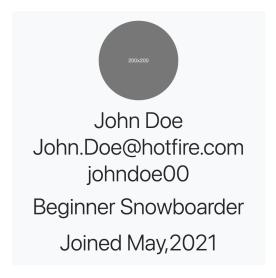


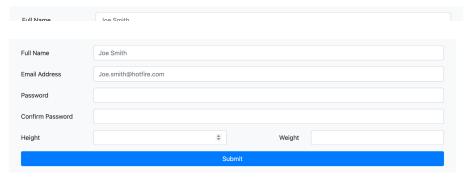


How long many years have you skied?		
Years		
How many days a season do you ski?		
Days		
Height	Weight	Shoe Size
le. 70in	le. 160lb	Size v
○ Skier ○ Snowboarder		
	Submit	

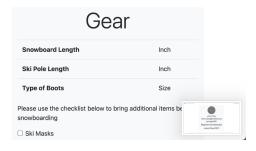
LUMI Home Profile About Us

• Login/Registration









WEB SERVICE DESIGN

```
1 // 20211029172706
     // https://api.openweathermap.org/data/2.5/weather?zip=20712,&appid=4ed6690f3c6542b4b2e6f6878895de1a
4 ▼ {
     "coord": {
5 🔻
        "lon": -76.9652,
       "lat": 38.9431
8
9 ▼
      "weather": [
10 🔻
         "id": 804,
11
         "main": "Clouds",
12
13
         "description": "overcast clouds",
         "icon": "04n"
14
15
16
17
      "base": "stations",
     "main": {
        "temp": 287.71,
        "feels_like": 287.73,
        "temp_min": 285.94,
       "temp_max": 289.36,
23
       "pressure": 997,
       "humidity": 96
24
25
26
      "visibility": 10000,
27 ▼
     "wind": {
28
        "speed": 1.34,
        "deg": 45,
29
        "gust": 3.58
30
31
      "clouds": {
32 ▼
        "all": 90
33
34
      "dt": 1635549934,
35
      "sys": {
36 ▼
37
        "type": 2,
        "id": 2008951,
38
39
        "country": "US",
        "sunrise": 1635507122,
40
41
        "sunset": 1635545453
42
43
       "timezone": -14400,
      "id": 0,
      "name": "Mount Rainier",
45
46
       "cod": 200
47 }
```

The web service used in our project is called OpenWeather. The picture above shows all of the data being received from the OpenWeather API in json formatting. The data used in our web app is the temperature, humidity, wind speed and the snow if there is any.

OpenStreetMap - open sourced map data that can be visualized as an overlay on a map Mapbox - a software/api that allows you to integrate openstreetmap data onto a map easily and in a visually pleasing way. Mapbox GL JS. Package that allows further customization and is used to embed the map on a website without the limitations of using html's <iframe> tag

DATABASE DESIGN

Registered Users
ID
Name
DateOfBirth
Address
Email
Username
Password
Level
Height
Footsize
FavoriteList

CHALLENGES

- Users unable to switch tabs if logged in due to no patching
- Password might still be kept in unsafe ways since hash table is not completed
- No password recovery settings or backup for logged in users
- A high chance of not being tested through automation

INDIVIDUAL CONTRIBUTIONS

Altay Uenal → Researched API's to use for weather and maps and read through their documentation

Biswas Gauli → Implemented Weather Api to display data of each of the top 10 ski resorts in all of Colorado. The data is displayed on the home page, this data includes the current temperature, humidity, wind speed and the amount of snow expected.

Freddy Perez → Created a responsive landing page for website with working navbar, buttons, and information layout

William Ruiz → Front end of the Login/Registration page, has a working modal pop-up for registration. Need to incorporate a database now and password checking in order to complete the signup process and login.

Thor Breece → Still finishing the css and developing ski map using openstreetmap and integrated through mapbox

Rayner Susanto → Setting up docker-compose.yml file and node.js for the database, reformatting the website to use ejs instead of html in order to apply dynamic changes towards the html file