Avalanche Center Website

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01: What is the Avalanche Center?

The Avalanche Center Website is an online platform designed to provide users with critical information on avalanche conditions and forecasts. This project offers users the ability to access current field data, submit their own reports, and access members-only content. The website features a user-friendly interface, highlighting recent reports and providing a map to visualize forecasted areas.
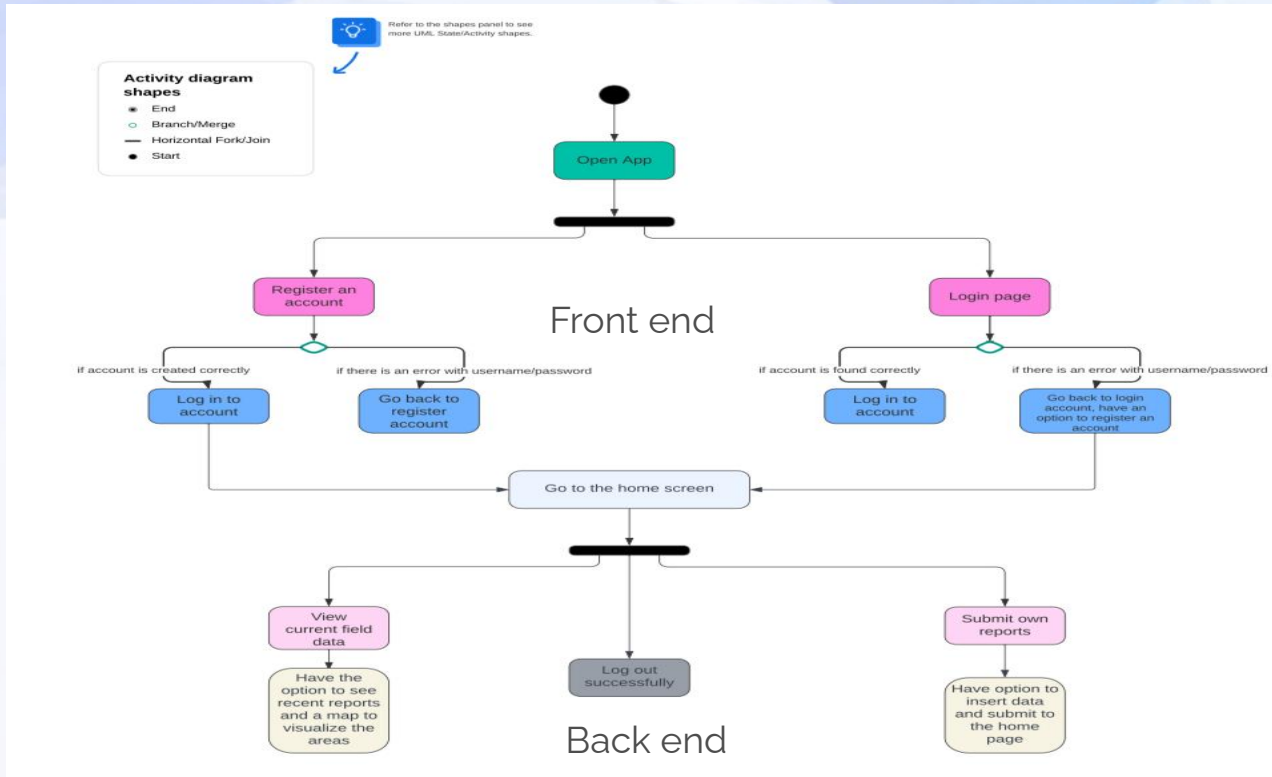
02: What tools did we use?

The tools we used for this project were:

- Frontend: HTML, EJS, Bootstrap
- Backend: Node.js, Express.js
- Database: SQL, PostgreSQL
- Other tools: Docker, Git

03: Architecture Diagram

Refer to the shapes panel to see more UML State/Activity shapes.

Activity diagram shapes
- ◉ End
- ○ Branch/Merge
- — Horizontal Fork/Join
- ● Start

Open App

Register an account

Front end

Login page

if account is created correctly

if there is an error with username/password

if account is found correctly

if there is an error with username/password

Log in to account

Go back to register account

Log in to account

Go back to login account, have an option to register an account

Go to the home screen

View current field data

Log out successfully

Submit own reports

Have the option to see recent reports and a map to visualize the areas

Have option to insert data and submit to the home page

Back end

04: Challenges

We faced a lot of challenges, such as:
- Having trouble getting register & delete cases to pass
- Having issues with docker.
- Having problems with getting the register and login to work
- Having issues with some repos not working properly with teammates & working for others

Our history

Homepage
Consists of a map to visualize forecasted areas & details

Admin Controls
The admin is able to update the home page and change users to admin

1 **2** **3** **4**

Register/Login
Create an account and login

Reports
The user is able to submit their own avalanche reports as well as look at others

Register/Login

Homepage
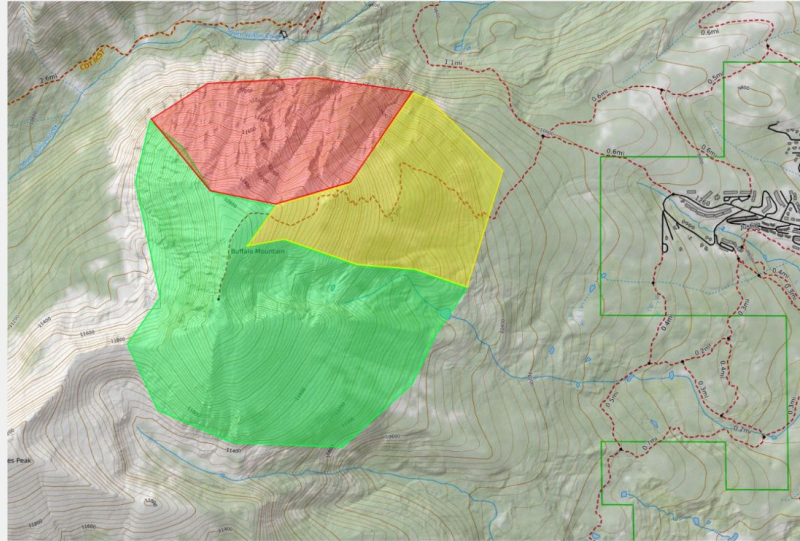
Reports

Avalanche Reports Page

Add Report

Observations:

Date:
mm/dd/yyyy

Image URL(optional):

Location(optional):

Cancel   Submit

Current Reports

Report ID: 1051 **User:** shrek1 :

Observations: its green
Date: Wed Dec 06 2023 22:16:57 GMT+0000 (Coordinated Universal Time)
Location: my swamp

Report ID: 1052 **User:** shrek2 :

Admin Controls

Admin Controls

Update Home Page

Image Path:

Danger Rating:

Avalanche Type:

Synopsis:

Update Home Page

Change User to Admin

Username:

Change to Admin

Thanks!

Do you have any questions?