

Contact Location Web Application

Solo or team?: Solo
Personal or School?: School
Approximate date: May 2024

Description:

For my Web Application Development course, I was tasked to create a web application that could hold a list of contacts in a database, and allow signed-in users to edit and create those contacts. The web app then had to locate those contacts with the given address, and make their location appear on a map. This project included both frontend and backend development. The webpages had to be visually appealing with my own personalized CSS decisions, and have a consistent look and feel across the site.

In this project I had to...

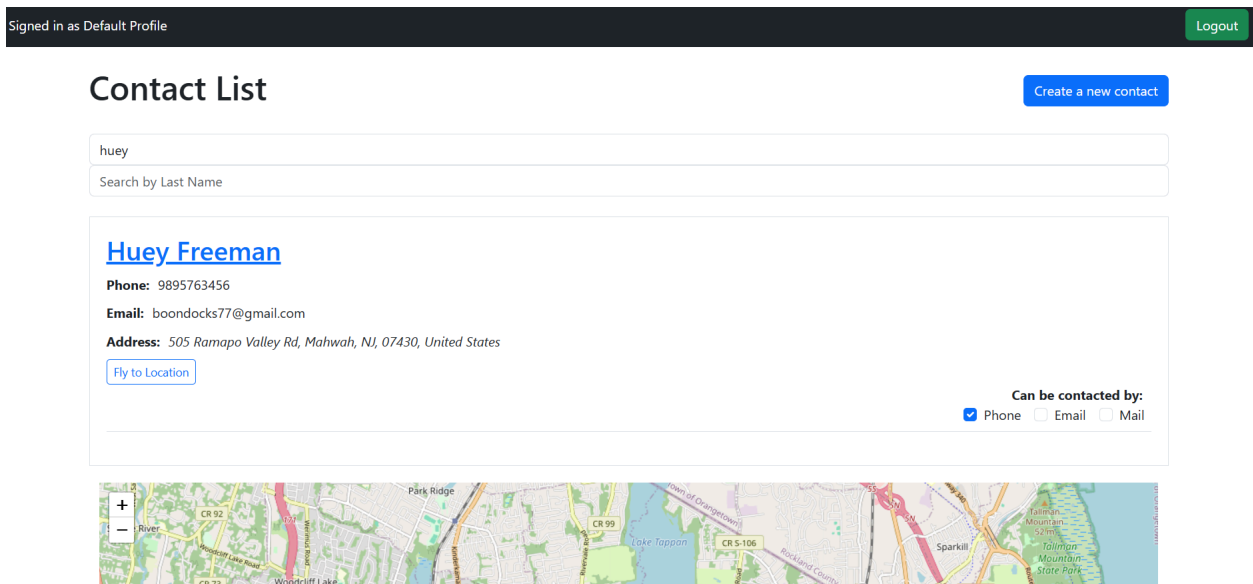
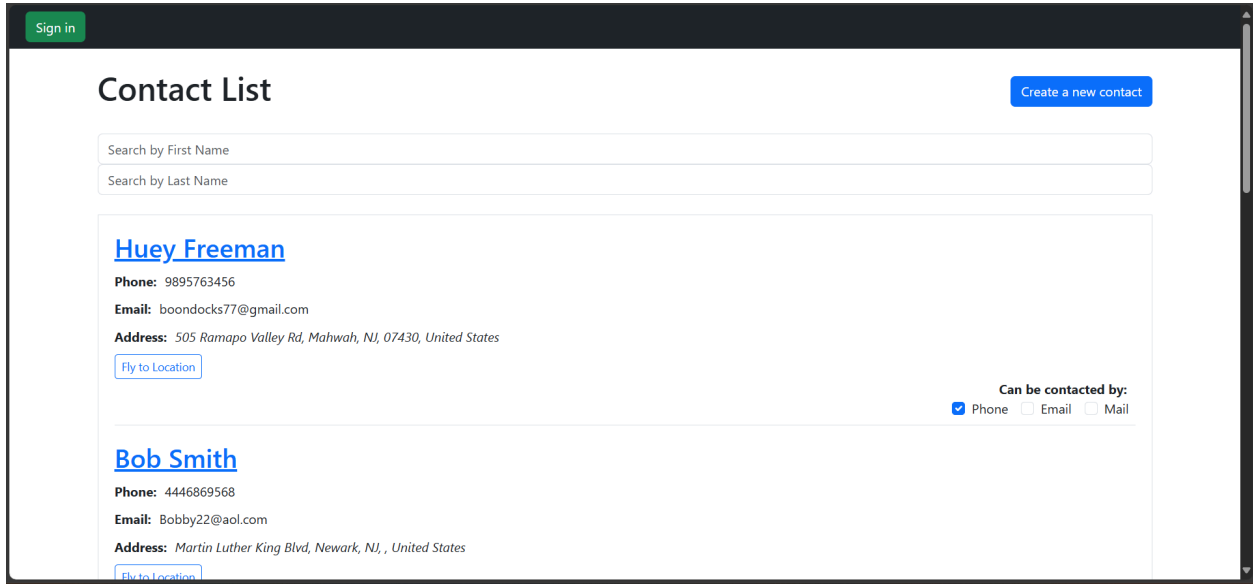
- Communicate with an asynchronous database for both user and contact data using SQLite
- Use server side rendering with the backend framework Express
- Design the website's visual layout using Bootstrap CSS
- Design the page layouts using the HTML preprocessor Pug
- Hash user passwords with the bcrypt library for security purposes
- Interact with the map service "OpenStreetMap" via an API, and use client side javascript for on screen animations and updates

Check out the images below to see what the website looked like and how it functioned on each page!

(This site no longer has an active URL, but this was how it looked/worked)

Home Screen with search feature

From this page, users could sign in, logout, create a contact, view all contact, and view all contact locations on the on-screen map. There was also a search feature that only displayed contacts with the given search criteria



Contact Card when contact is clicked

From this screen, signed-in users could view contact details, edit the contact information, and delete the contact (also updating the database)

Contact Info

[Back to list](#)

Huey Freeman

Phone number: 9895763456
May be contacted by phone or text

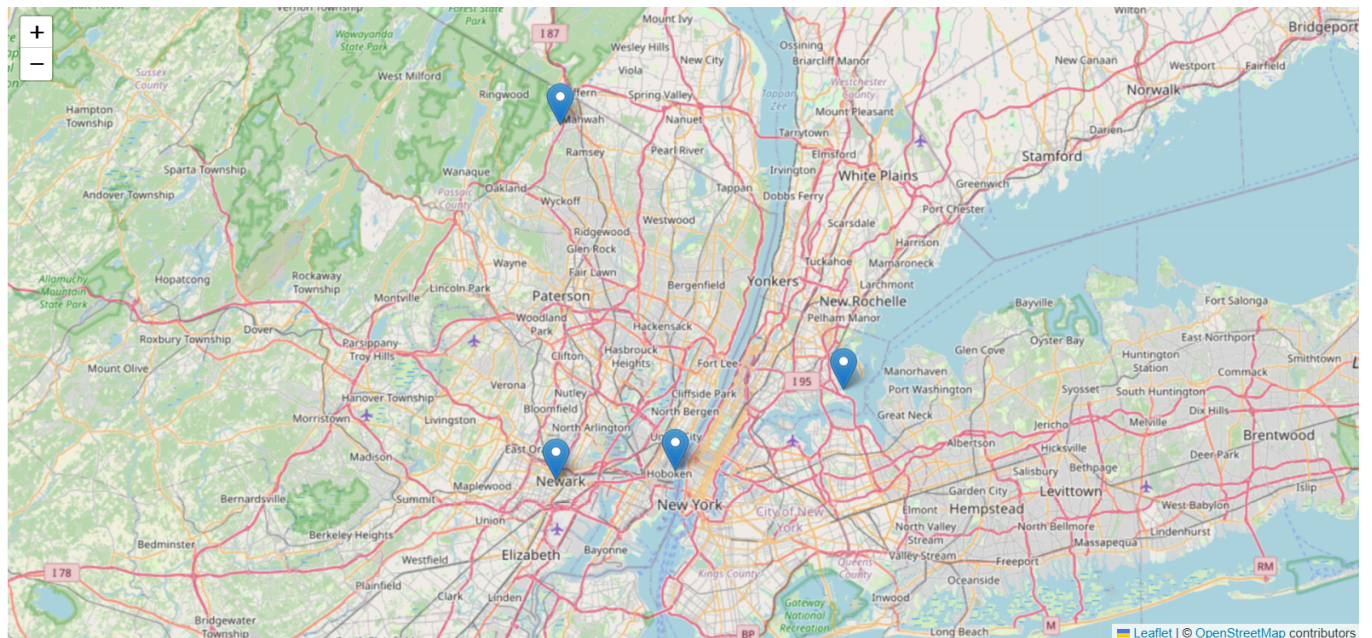
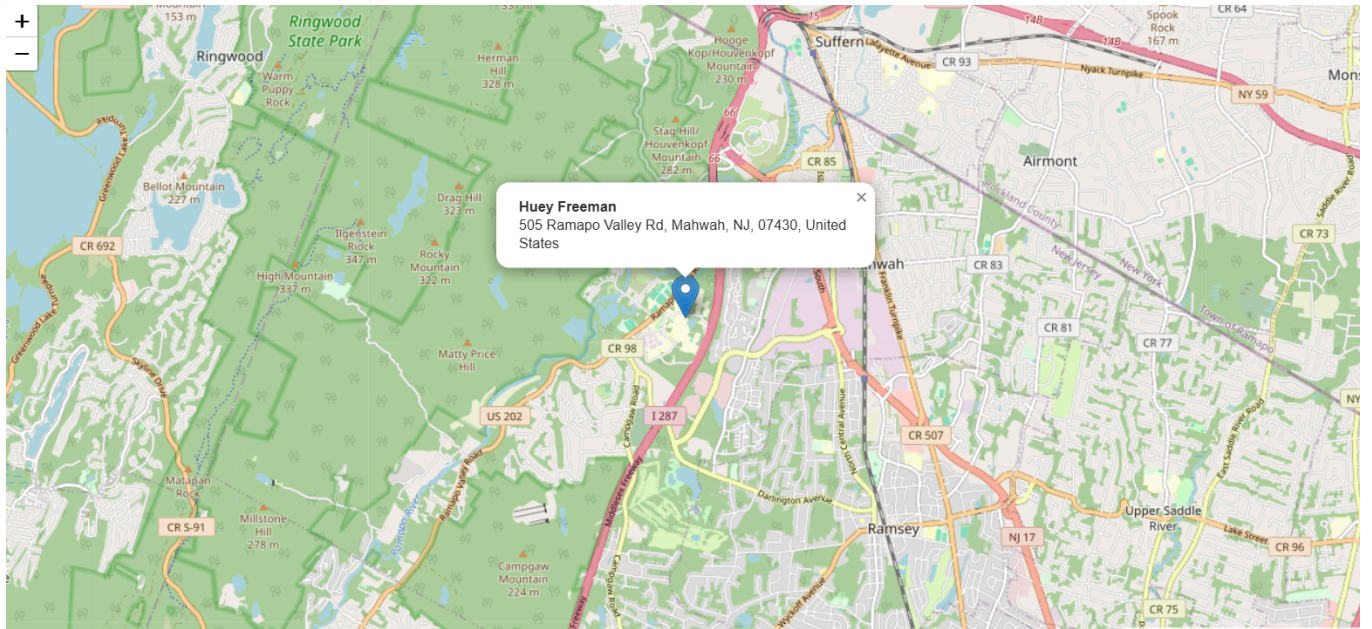
Email address: boondocks77@gmail.com
May NOT be contacted by email

Address:
505 Ramapo Valley Rd,
Mahwah, NJ, 07430
United States
May NOT be contacted by mail

[Edit contact](#) [Delete contact](#)

Map Location for contact (With fly-to animation)

This map was at the bottom of the webpage, with location markers visible for all contacts in the database. From the home page, you could click the “Fly-to” button to zoom out on the map and smoothly zoom back in to the contact’s location.



Sign in and sign up page for users

Users could create an account or login with existing credentials

Sign in

Sign in

Nevermind

Don't have an account yet? [Sign up here!](#)

Sign up

Please select a username and a password. Don't worry about any password rules here, we don't really care much about protecting your information - so `helloworld` is just fine by us!

Sign up

Nevermind

Already have an account? [Sign in here!](#)