Project Development Report

Project Title and Group Members

Rehab Revive by Team orangeOS, including Alexis-Rachelle Ramelb, Wilneris Carrion-Colon and Fletcher MacDonald.

Introduction

Medical clinics are an essential service that many individuals utilize in their daily lives, yet many patients in Hawaiʻi struggle to find clear and specific information about healthcare providers in one centralized place. This project aims to create an easy-to-navigate website that centralizes essential information on healthcare services, with a particular focus on sports medicine for those seeking specialized care. In this Project Development Report you will get an insight into the development of our website including, **API's**, **Design** , **Challenges Faced** and **Future Improvements**.

API Development

Within our project we have a total of 6 API's; 4 GET, 1 POST and 1 DELETE.

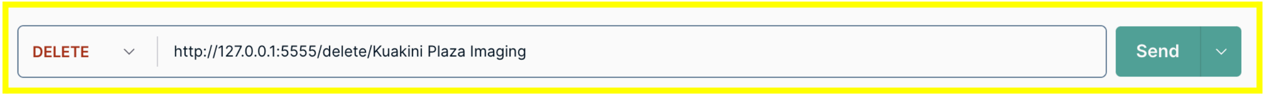
GET:
The three GET API retrieve the data from the analyze_data.py and serve the information to specific html files to be displayed. The three API routes are:

```
'/ortho_data' ->(Returns orthopedic clinic data.)
'/add-clinic-page' ->(Serves the HTML page where users can add a new clinic.)
'/medical-imaging_data' ->(Returns medical imaging service data.)
'/pt_data' ->(Returns physical therapy (PT) data.)
```

DELETE:
The DELETE API deletes all the data from the name of a specific clinic that you input in the URL in Postman, from the JSON file, in which the clinic comes from, so when you go to display all the clinics using the other GET API, it won't be displayed in the website or in the JSON file anymore. The API route is:

```
'/delete/<clinic_name>' ->(Deletes all data related to the specified clinic name.)
```

Thus, for example, in Postman, if you do:


DELETE http://127.0.0.1:5555/delete/Kuakini Plaza Imaging

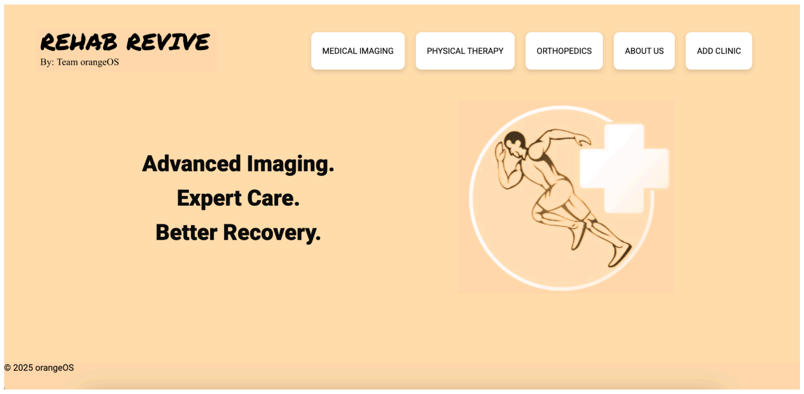
it will delete Kuakini Plaza Imaging off the medical imaging clinics page.

POST:
The POST API adds all the data for a new clinic that you input through the form on the Add Clinic Page. When you submit the form, it sends a POST request to http://127.0.0.1:5555/add_clinic_page, and the clinic's information gets added to the specified JSON file, in which the clinic will now be stored. So when you go to display all the clinics using the other GET API, it will now be displayed on the website and included in the JSON file. The API route is:

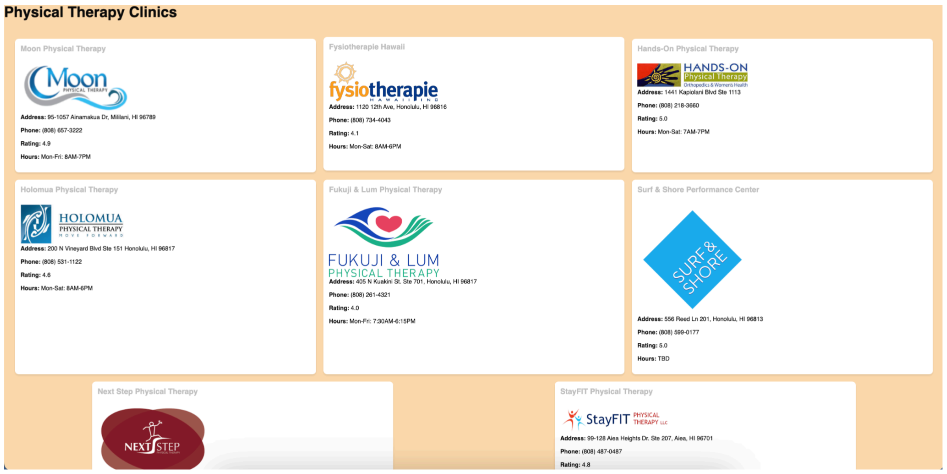
```
'/add-clinic-page' ->(POST request containing JSON data for a new clinic.)\
```

Front-end

(Note: All Screenshots are reduced view size to show all information)
Homepage:



Clinic Pages (All clinic pages are the same layout just with their own information):



Physical Therapy Clinics

Moon Physical Therapy
Address: 95-1057 Ainamakua Dr, Mililani, HI 96789
Phone: (808) 657-3222
Rating: 4.9
Hours: Mon-Fri: 8AM-7PM

Fysiotherapie Hawaii
Address: 1120 12th Ave, Honolulu, HI 96816
Phone: (808) 734-4043
Rating: 4.1
Hours: Mon-Sat: 8AM-6PM

Hands-On Physical Therapy
Address: 1441 Kapiolani Blvd Ste 1113
Phone: (808) 218-3660
Rating: 5.0
Hours: Mon-Sat: 7AM-7PM

Holomua Physical Therapy
Address: 200 N Vineyard Blvd Ste 151 Honolulu, HI 96817
Phone: (808) 531-1122
Rating: 4.6
Hours: Mon-Sat: 8AM-6PM

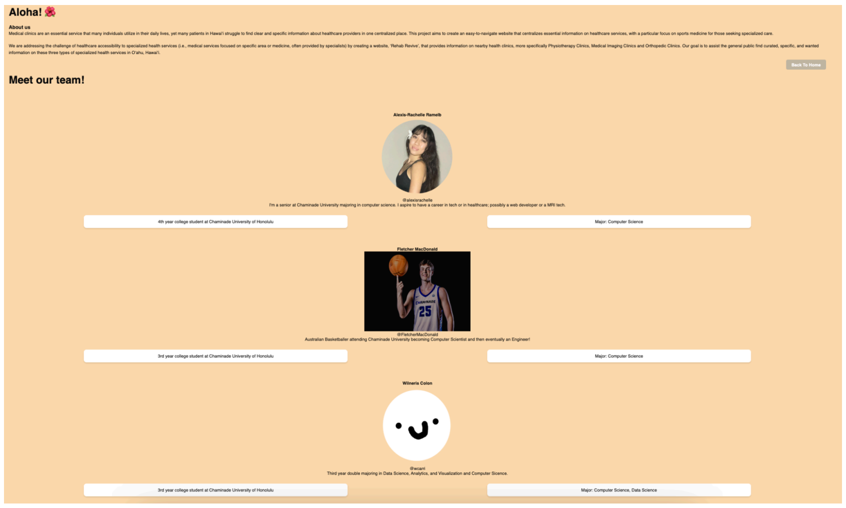
Fukuji & Lum Physical Therapy
Address: 405 N Kuakini St. Ste 701, Honolulu, HI 96817
Phone: (808) 261-4321
Rating: 4.0
Hours: Mon-Fri: 7:30AM-6:15PM

Surf & Shore Performance Center
Address: 556 Reed Ln 201, Honolulu, HI 96813
Phone: (808) 599-0177
Rating: 5.0
Hours: TBD

Next Step Physical Therapy

StayFIT Physical Therapy
Address: 99-128 Aiea Heights Dr. Ste 207, Aiea, HI 96701
Phone: (808) 487-0487
Rating: 4.8

About Us Page:



Aloha! 🌺

About us

Medical clinics are an essential service that many individuals utilize in their daily lives, yet many patients in Hawai'i struggle to find clear and specific information about healthcare providers in one centralized place. This project aims to create an easy-to-navigate website that centralizes essential information on healthcare services, with a particular focus on sports medicine for those seeking specialized care.

We are addressing the challenge of healthcare accessibility to specialized health services (i.e., medical services focused on specific area or medicine, often provided by specialists) by creating a website, 'Rehab Revive', that provides information on nearby health clinics, more specifically Physiotherapy Clinics, Medical Imaging Clinics and Orthopedic Clinics. Our goal is to assist the general public find curated, specific, and wanted information on these three types of specialized health services in O'ahu, Hawai'i.

Back To Home

Meet our team!

Alexis-Rachelle Ramelb

@alexisrachelle
I'm a senior at Chaminade University majoring in computer science. I aspire to have a career in tech or in healthcare; possibly a web developer or a MRI tech.

4th year college student at Chaminade University of Honolulu

Major: Computer Science

Fletcher MacDonald

@FletcherMacDonald
Australian Basketballer attending Chaminade University becoming Computer Scientist and then eventually an Engineer!

3rd year college student at Chaminade University of Honolulu

Major: Computer Science

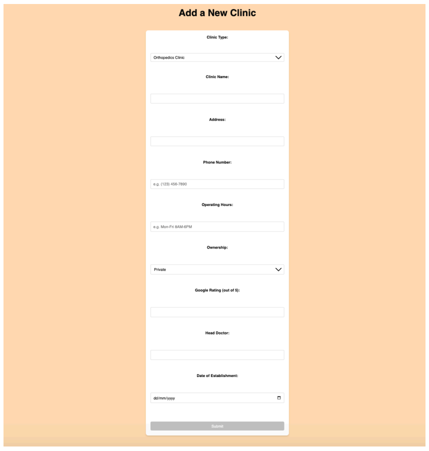
Wilneris Colon

@wcarri
Third year double majoring in Data Science, Analytics, and Visualization and Computer Sicence.

3rd year college student at Chaminade University of Honolulu

Major: Computer Science, Data Science

Add Clinic Page:



Add a New Clinic

Clinic Type: Orthopedics Clinic

Clinic Name:

Address:

Phone Number: e.g. (123) 456-7890

Operating Hours: e.g. Mon-Fri 8AM-6PM

Ownership: Private

Google Rating (out of 5):

Head Doctor:

Date of Establishment: dd/mm/yyyy

Submit

<u>Database</u>

Our website uses a JSON file instead of a database to store clinic information. A Python function reads the file, and Flask (API) sends the data to the HTML page to display it. When a user deletes or adds a clinic it is added to the JSON file. The json file consists of multiple keys that you see on the clinic pages.

<u>Challenges</u>

Some of the main challenges we faced during this project were; organizing working on our sections of work and not clashing on github leading to multiple branches (we got better as it went on though), trouble with keys and making sure the html files were getting the right key names from the analyze_data.py so the loop of the html could actually print out all the information and images, general css formatting issues (overlapping). The loops within the html to output the clinic information worked really well when we figured it out. The one css file also referenced the whole webpage so it was easy to have a similar look throughout the whole website. The main thing we learnt was how to reference the information we wanted to input on the web page, whether it be images, information etc. And outputting them to our html using Flask instead of manually writing all the information which is inefficient.

Future Improvements

Future improvements that could be implemented could include; a proper database (SQL), people are able to add clinics by using clinics websites link, restrictions of what people can add, more advanced css styling.

Conclusion

Overall, our project successfully created a functional and user-friendly website to display healthcare clinic information using JSON files and Flask. We learned a lot about API integration, frontend design, and working as a team. We found that this project made us much more knowledgeable on web page development.