Project Ouchy

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Description

Project ouchy was designed to make finding affordable healthcare simple for those with no insurance. It collects information on providers, services offered and prices for each service. Users are then able to search based on services needed, see how far providers are and see travel time to each provider.



Features

- Login User logins can be setup as a user or a provider
- Lists Shows all services and providers currently in the database
- Search finds services and/or providers that contain the user's search term
- Autocomplete The search field offers suggestions based on provider and service names once the user enters at least 2 characters
- DistanceMatrix API integration Allows the user to enter their address and see time and travel distance to each provider
- Bootstrap Makes the interface easy to use at any resolution



Planning - User Stories

As a user I will be able to search providers by clicking a link in order to see a wide range of options due to not having a specific place in mind.

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As a user, I will be able to access the website and be able to click link(s) and a search box so I can know how to navigate the page.

As a provider, I will be able to log in and enter services provided along with costs so people can find that information.

As a user, I will see options drop down from the search bar as I type so that I can more quickly find the desired service/provider information.

@ Q1

DistanceMatrix API

As a user, I will be able to filter/sort searches by type of procedure, price, provider, and provider ratings to find the best fit for me.





Planning - Database

There are 4 tables: Users, Providers, Services and ProviderServiceDTO

- 1. Users contains user login data, encrypted password and user type (provider/user)
- Provider contains details on provider including name, email, phone, address and services provided
- 3. Services creates a default list of services so Providers don't label the same procedure differently
- 4. ProviderServiceDTO Links providers to services and contains the cost that provider charges for the service

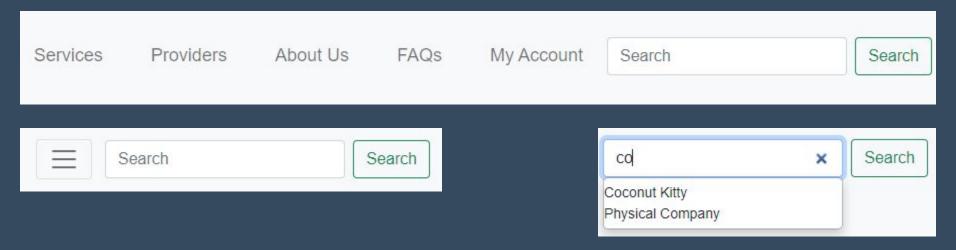


Technology Stack

- Java / HTML / CSS
- Spring Boot / Bootstrap
- Thymeleaf
- MySQL
- jQuery / Distance Matrix API



Navbar



- Navbar provides quick access to all site functions
- Bootstrap classes allow navbar to shrink to hamburger menu on smaller screens
- jQuery used to add autocomplete suggestions to search bar using response body that compares against provider and service names



Service List

Ascending Descending	Cat Scan Meowgical!			
	Coconut Kitty	314-123-4567	DontCare@ImACat.com	\$1000.0
	Gertrude Dog	314-123-4567	GertrudePuppyDawg@GoodDoggo.com	\$4.0
	Lightning Kitty	314-123-4567	zoomzoom@lightningkitty.com	\$1.0
	Ryan Porter	314-123-4567	rlp390@hotmail.com	\$79.0
	Test	12345	Test@Email.Test	\$1.0

- Provides a full list of all services available in database.
- For each service, a full list of providers and their contact/pricing info is listed
- Buttons to sort list ascending/descending



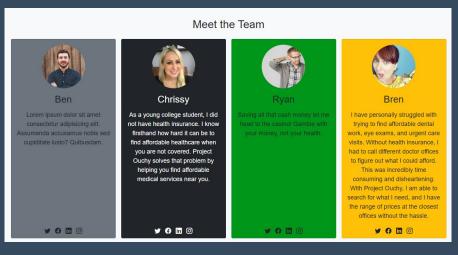
Provider List

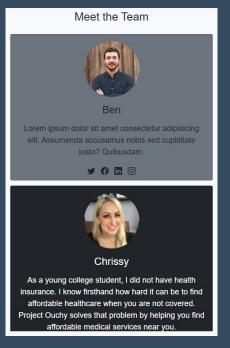


- Provides a full list of all providers available in database.
- For each provider, a full list of services and the contact/pricing info is listed
- Buttons to sort list ascending/descending



About Us





- Shows use of bootstrap classes to keep page responsive
- Left shows view on large screen
- Right shows view on small screen





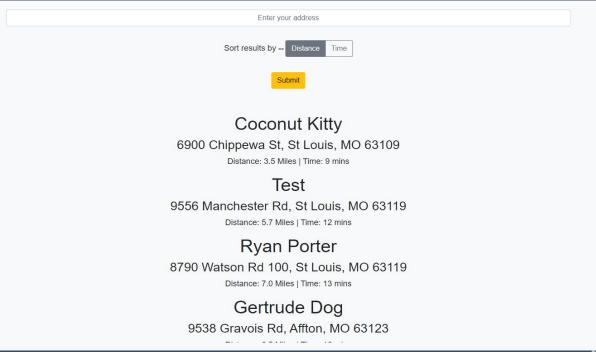


- Shows use of bootstrap classes to keep page streamlined
- Allows more questions to be viewed
- User can click on a question to reveal the answer



Distance API

- Integrates with
 Distance Matrix API
 to determine travel
 times and distances
 to nearby providers
- User can sort by distance or time





What I Learned

- How to utilize bootstrap to make a page responsive at any size
- How to use jQuery to generate autocomplete suggestions for a search field
- Interfacing with a DistanceMatrix API to find distances and travel times
- Using the PagingAndSortingRepository class to create custom database searches
- Creating custom Comparators so data can be sorted appropriately
- Creating an RDS on AWS so all users could utilize the same data



What's Next

- Add the ability for users to provide reviews of providers
- Add history tracking to know which providers you have visited
- Update the UI to be more streamline and interactive

