Project Report On

Don’t Let your Health Down (DLHD)

Submitted by

Gaurav Chaurasia	181CV155
Upendra Pal	181ME282
Jai Khandelwal	181MN016

Under the guidance of

Dr. Anand Kumar M	*Dept of IT, NITK Surathkal*
Mrs. Priyadarshini R	*Dept of IT, NITK Surathkal*

in partial fulfillment for the award of the degree of
Bachelor of Technology In *Information Technology* at

Department of Information Technology
National Institute of Technology Karnataka, Surathkal

DECLARATION

We hereby declare that the report of the B.Tech Project - I (IT254) entitles “DLHD”, which is being submitted to the National Institute of Technology Karnataka, Surathkal, is a bonafide report of the work being carried out by us. The material contained in this report has not been submitted to any other University or Institution.

Gaurav Chaurasia (181CV155)
Upendra Pal (181MN282)
Jai Khandelwal (181ME016)

Department of Information Technology
Place: NITK, SURATHKAL
Date: 1’st December 2020

CERTIFICATE

This is to certify that the U.G. Project Work Report entitled "**DLHD**" submitted by Mr. Gaurav Chaurasia (181CV155), Upendra Pal (181ME282), and Jai Khandelwal (181MN016) as the record of the work carried out by them is accepted as the U.G. Minor Project - I report submission in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in INFORMATION TECHNOLOGY in the DEPARTMENT OF INFORMATION TECHNOLOGY, N.I.T.K, Surathkal during the year 2020-2021, is a bonafide work carried out by them under my supervision and guidance.

Dr. Anand Kumar M & Mrs. Priyadarshini R

Dept of IT, NITK Surathkal

Biju R. Mohan

Head of the department Department of Dept of IT,

NITK SURATHKAL

ACKNOWLEDGEMENT

We take this opportunity to express our sincere gratitude and profound thanks to our guide Dr. Anand Kumar M & Mrs. Priyadarshini R, Department of IT, National Institute of Technology Karnataka, Surathkal for his advice, expert guidance, constant encouragement, and reference material provided during the course of the preparation of the U.G. Project Work Report. We would like to express our sincere gratitude to Biju R. Mohan, Professor, and Head of the Department of IT, National Institute of Technology Karnataka, Surathkal for providing the necessary facilities and sincere cooperation. We would also like to thank all the teaching and non-teaching staff of the Department of IT, National Institute of Technology Karnataka, Surathkal for their cooperation and help during the project work. We would like to thank all our friends and classmates for their continuous help and encouragement, without whom this project would not have been completed successfully. Above all, we thank Lord, the almighty for his grace throughout the work.

Gaurav Chaurasia 181CV155

Upendra Pal 181ME282

Jai Khandelwal 181MN016

ABSTRACT

DLHD is a healthcare management system developed to provide mainly healthcare-related facilities data and insights in things like disease data, medicine data .etc which is not very easily available in this ocean of data in this application all users are assigned a Role depending on which he/she can perform certain tasks i.e. a user authorized as Doctor main add disease and the medicine into the database which other users can refer in need.

also, this app has a module called maps which is basically a tracker whose purpose is to track users with any contagious disease and other use could get alert on the basis of that as we all know in the current scenario of COVID-19 which very risky because of its very high contagious in nature so this app plays a vital role in taking extra care of the user and make sure that any user with symptom does not get in contact with other users to stop the spread of this disease.

Overview

This project is divided into some part or modules the first module is mainly based on IO operation and giving the user the data of there need for example it has a medicine page and a disease page which contains the detail of many medicines and the disease which all can only be register to our database by an authorized user with doctor role which can only be assigned by an admin user and which can be assigned only by a user with administrative access to the database itself.

The second module is basically a tracker which can locate a user's location in this module an authenticated user can add his/her location just by clicking the button in the menu, he can perform CRUD operation on his location, and if any user has symptoms of any contagious disease they can add their locations and all other users would be able to see them on the map with a red mark which represents danger and other users should take extra care while walking through that area.

Goals

1. To make needed data available to the needy.
2. Learn and Implement web nodejs, express, ejs, passport, OAuth...etc
3. Learn the use of databases in web applications like MongoDB (used for projects) which is a NoSQL database.

4. Design Schema for DLHD web app.
5. Understand Oop's(Object Oriented Programming).
6. Understand and Implement MVC(Model View Controller) architecture
7. Generating APIs and working with the third party apis
8. Using Google Maps Javascript API, Google Geospatial API...etc
9. Searches functionality with diff options

Specifications

This web application has lots of features like the capability to track a user's location with accuracy..etc.

1. This user can check any medicine, disease details entered by authorized DOCTORS.
2. Users can search for any medicine or disease.
3. Users can search for medicine by its name or the disease name for which any medicine is used.
4. Proper authentication is present to keep data safe and secure.
5. Third-party authentication is also present (OAuth2.0).
6. Users can see other users nearby with symptoms of any contagious disease.
7. Users can perform CRUD on geospatial data. (create, read, delete, update)

References and useful link

https://developers.google.com/maps/documentation/javascript/get-api-key

https://developers.google.com/maps/documentation/geolocation/overview

https://developers.google.com/identity/protocols/oauth2

http://www.passportjs.org/

http://www.passportjs.org/packages/passport-google-oauth2/

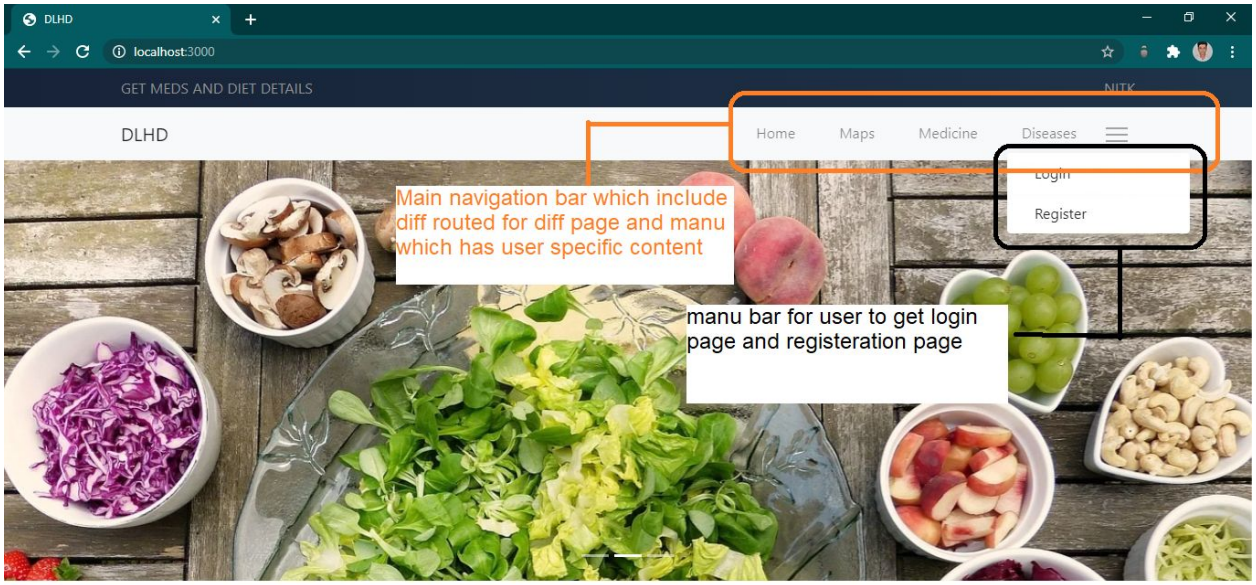
http://www.passportjs.org/docs/authenticate/

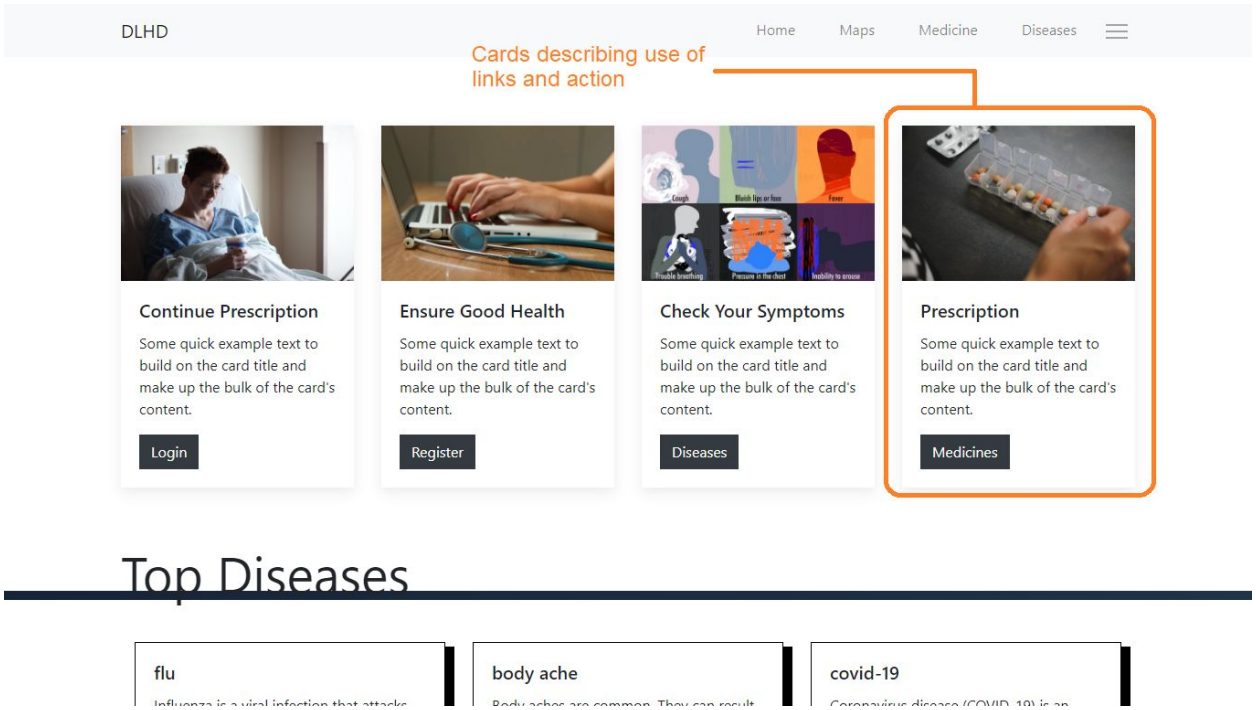
http://expressjs.com/

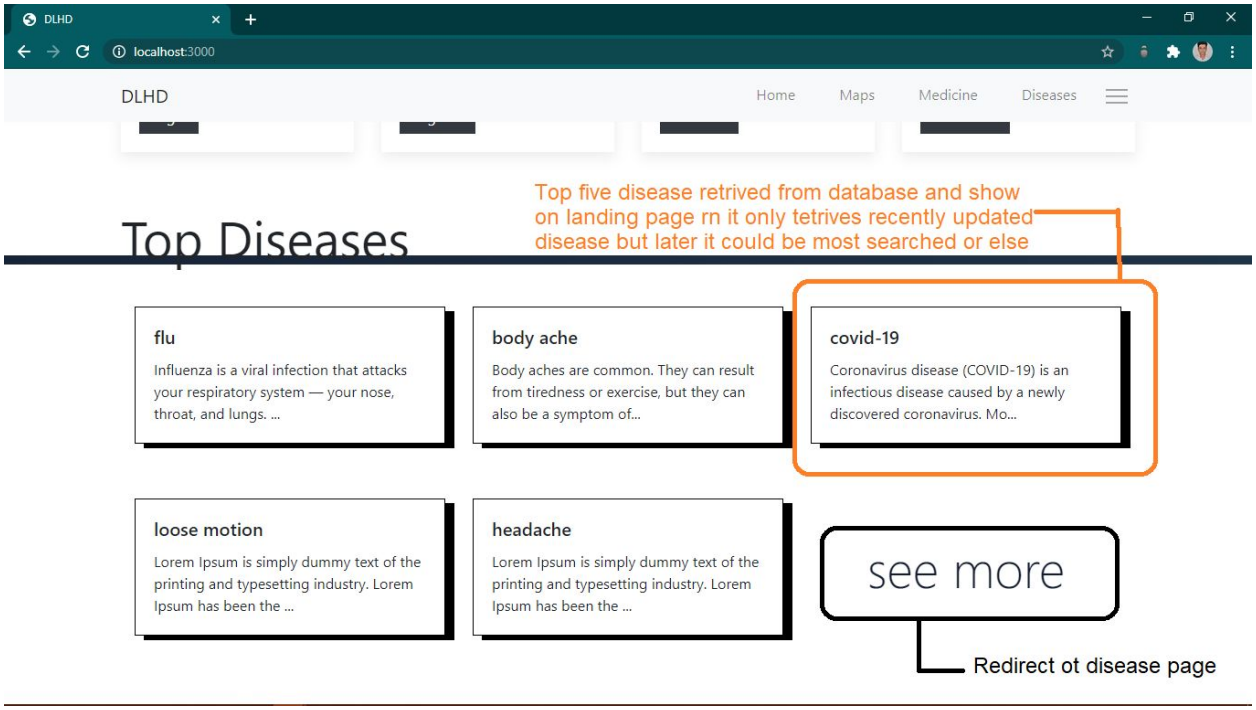
https://nodejs.org/en/docs/

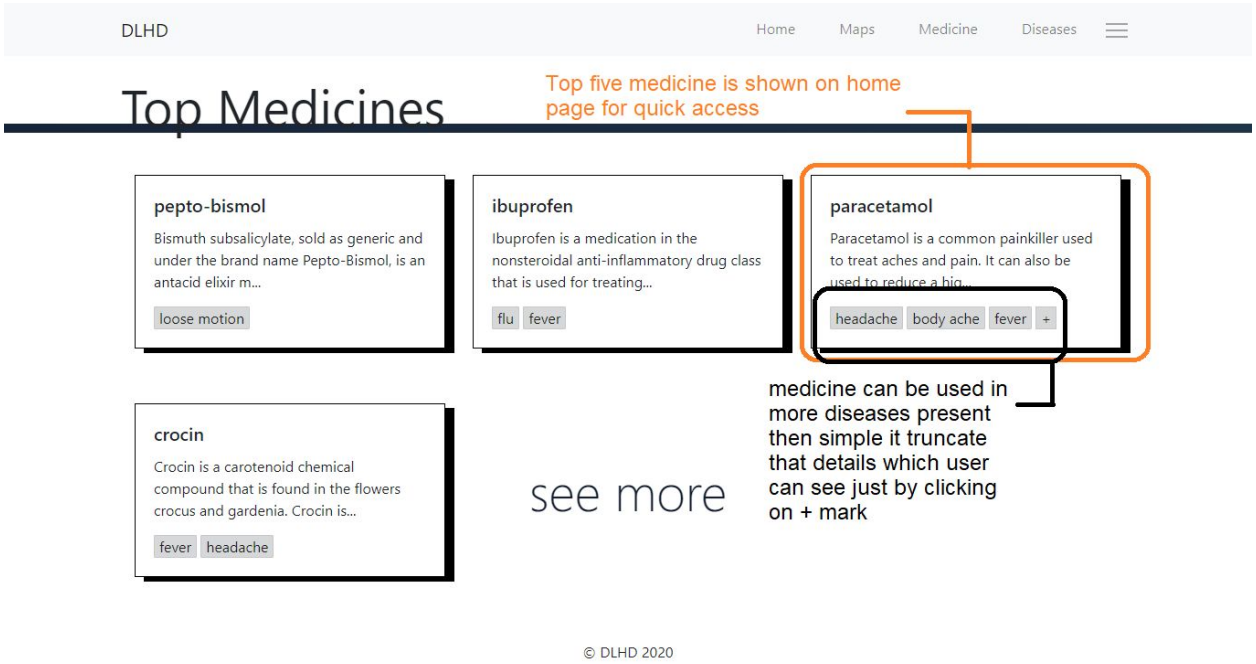
Code: https://github.com/gaurav-chaurasia/IT254-PROJECT

Working of web app is shown in screenshots below





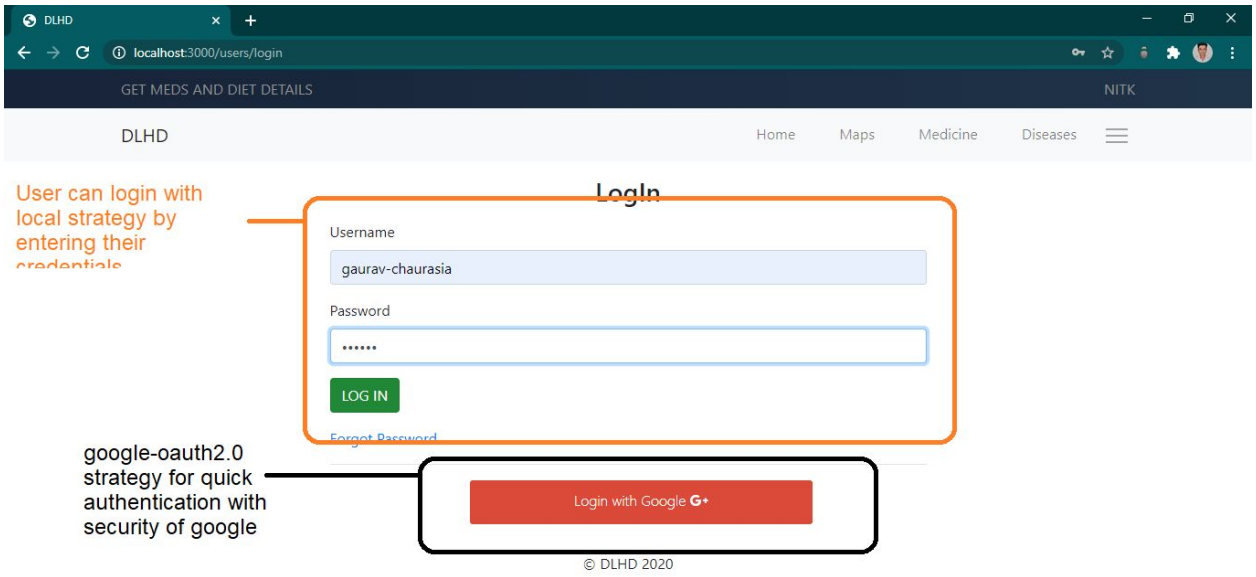

DLHD
localhost:3000
DLHD
Home
Maps
Medicine
Diseases
Top Diseases
Top five disease retrived from database and show on landing page rn it only tetrives recently updated disease but later it could be most searched or else
flu
Influenza is a viral infection that attacks your respiratory system — your nose, throat, and lungs. ...
body ache
Body aches are common. They can result from tiredness or exercise, but they can also be a symptom of...
covid-19
Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus. Mo...
loose motion
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...
headache
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the ...
see more
Redirect ot disease page


DLHD
Home
Maps
Medicine
Diseases
Top Medicines
Top five medicine is shown on home page for quick access
pepto-bismol
Bismuth subsalicylate, sold as generic and under the brand name Pepto-Bismol, is an antacid elixir m...
loose motion
ibuprofen
Ibuprofen is a medication in the nonsteroidal anti-inflammatory drug class that is used for treating...
flu
fever
paracetamol
Paracetamol is a common painkiller used to treat aches and pain. It can also be used to reduce a hig...
headache
body ache
fever
+
medicine can be used in more diseases present then simple it truncate that details which user can see just by clicking on + mark
crocin
Crocin is a carotenoid chemical compound that is found in the flowers crocus and gardenia. Crocin is...
fever
headache
see more

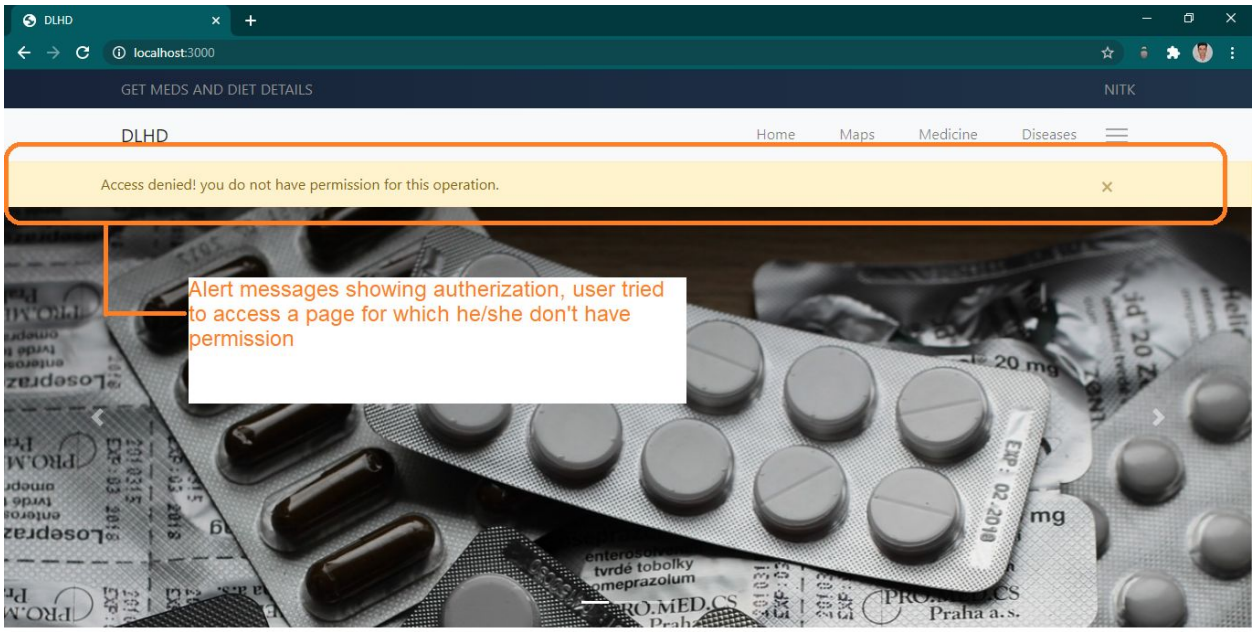
© DLHD 2020

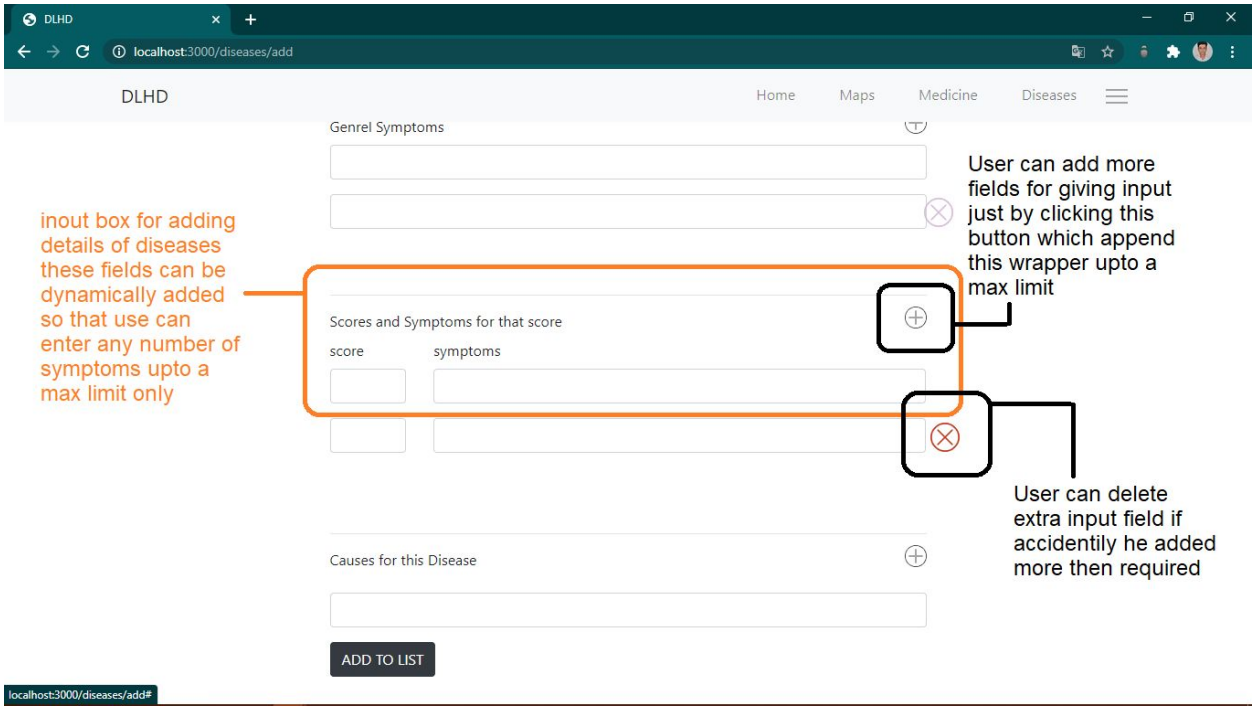
User can log in via local strategy or OAuth strategy

Alerts are also shown after redirection

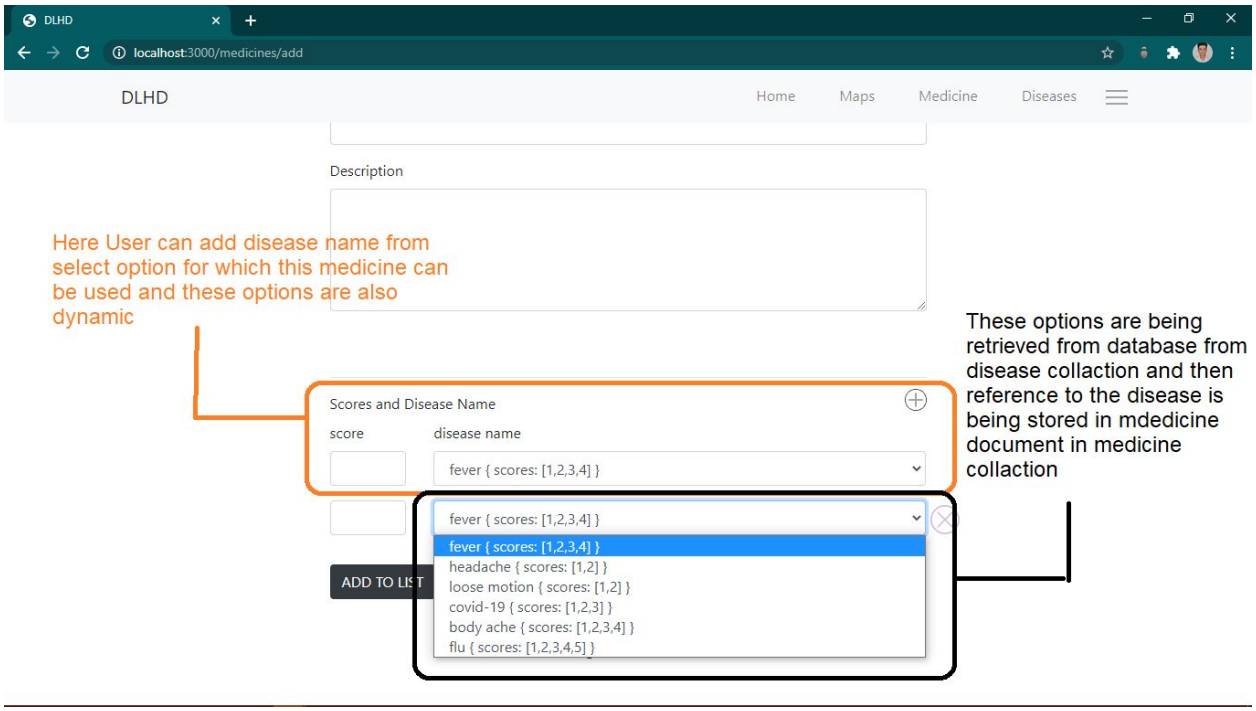


User tries to access a page or perfor operation for which he has no permission

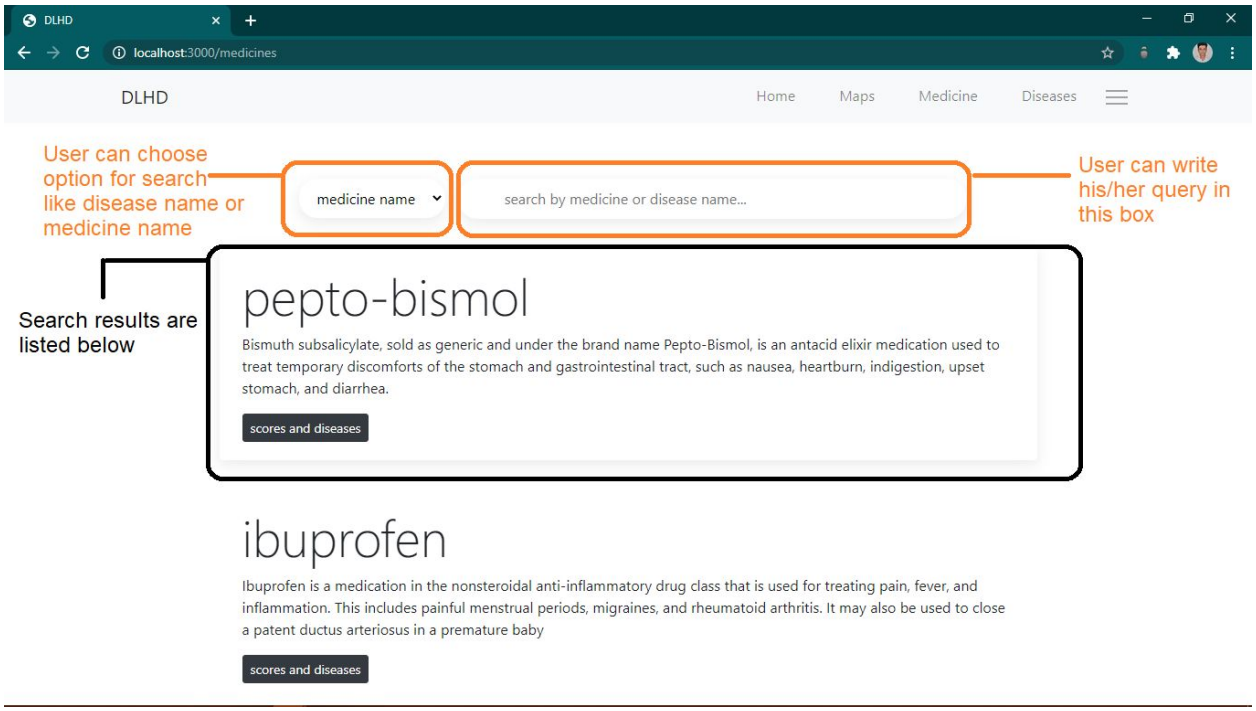


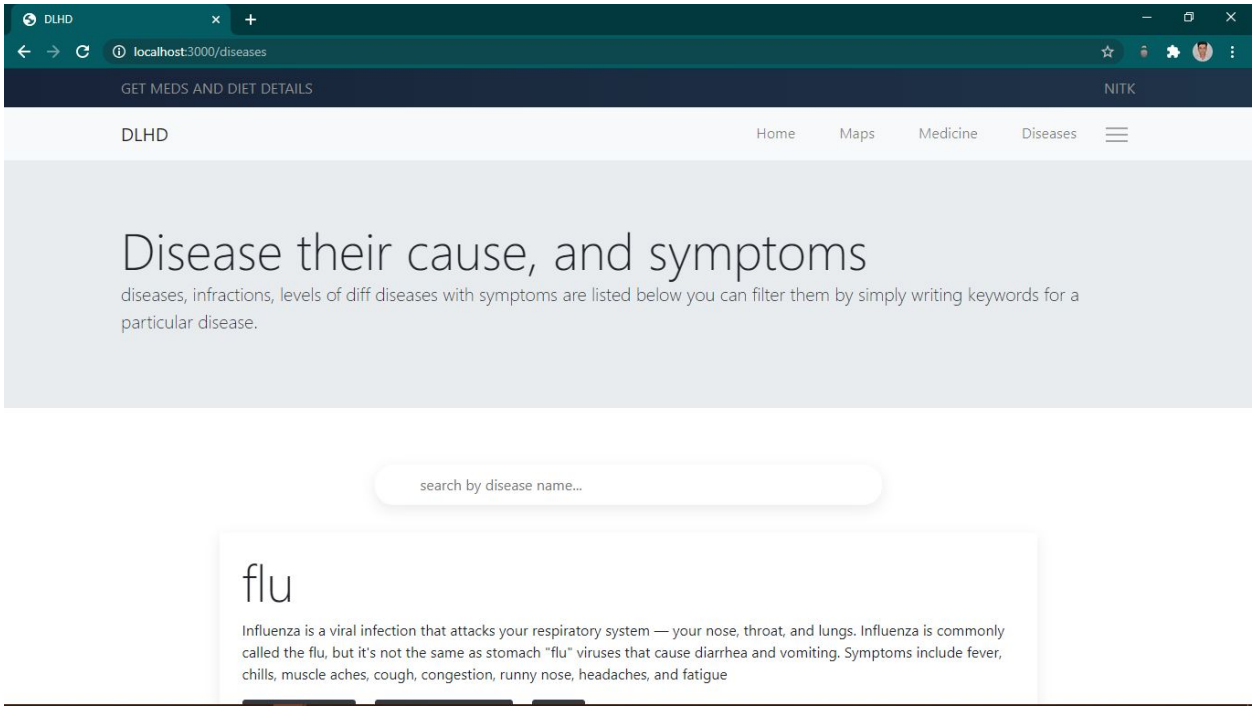


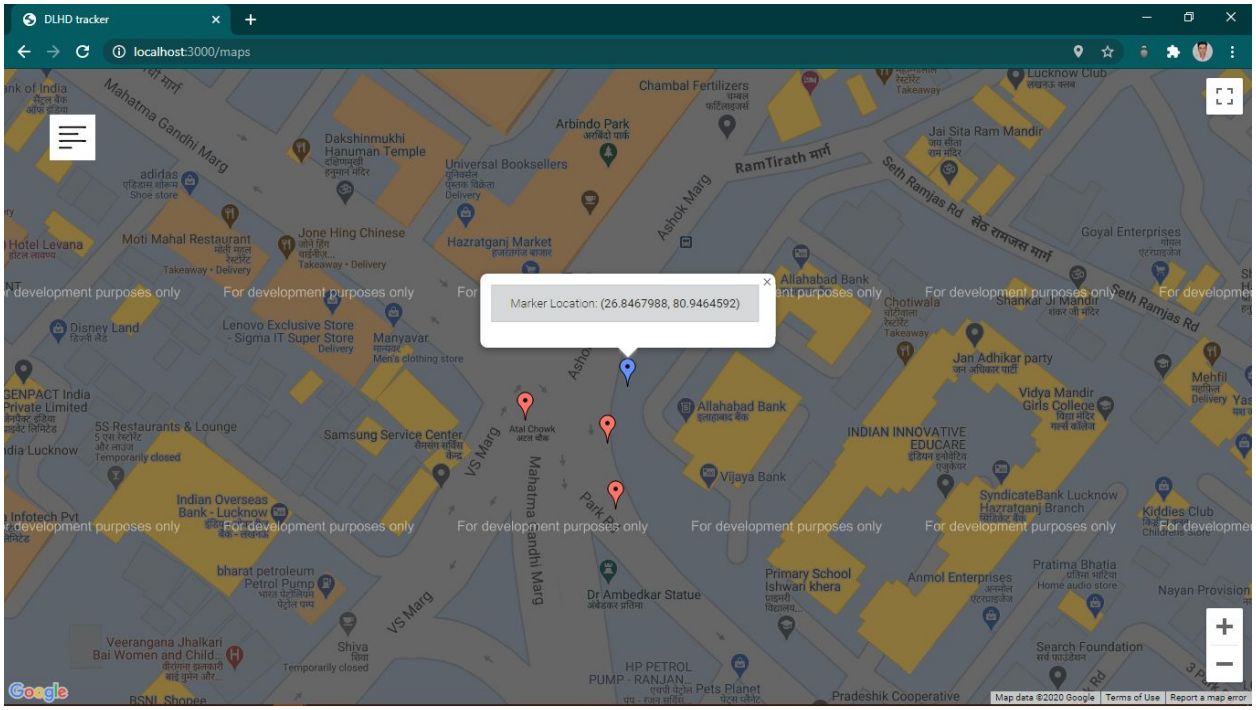
These select options are being retrieved from the database and referenced to medicins for data consistency

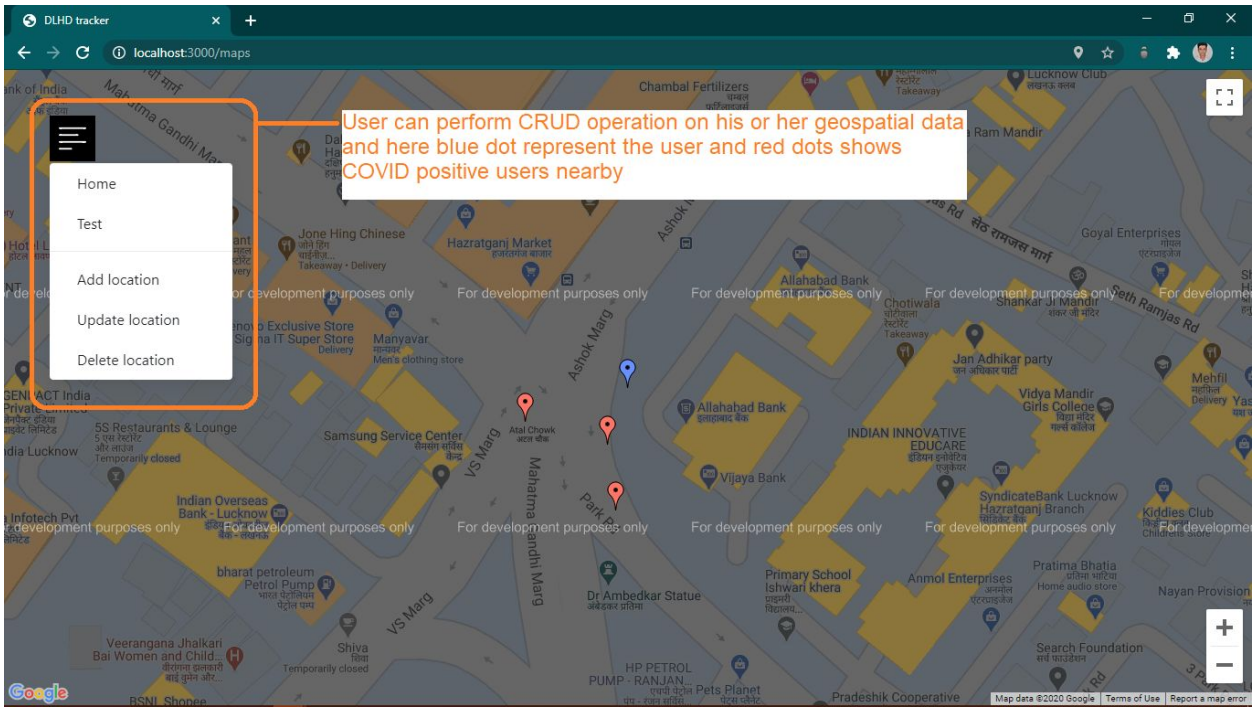


User can perform a search on disease and medicine






DLHD tracker
localhost:3000/maps
Marker Location: (26.8467988, 80.9464592)
For development purposes only
Google
Map data ©2020 Google
Terms of Use
Report a map error


DLHD tracker
localhost:3000/maps
User can perform CRUD operation on his or her geospatial data and here blue dot represent the user and red dots shows COVID positive users nearby
Home
Test
Add location
Update location
Delete location
For development purposes only
Google
Map data ©2020 Google
Terms of Use
Report a map error