

National Institute of Technology **Tiruchirappalli**



Department of Computer Applications

Report on Internship

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Abstract

This Pandemic showed us that the lack of information and unavailability of basic equipment can endanger lives. What they lack was details of O2 refilling centers and medical equipment like Pulse oximeter, thermometer, etc. So sole purpose of this project is to provide details and easy access to equipment. This can be implemented in three modules using the Django framework, 1st is Donation Box (After a person gets recovered from Covid-19 he/she can donate the Medical Equipment to a needy person), 2nd is Oxygen Re-Filling centers (Will provide details of Oxygen re-filling centers in a range of distance using Google API), 3rd is Product Comparison (different e-commerce companies products will be compared, So that patients can get the products on time and less expensive). The technology used are Django framework for backend, Google map API, tkinter and python libraries. A novelty this project has is that no other platform exists which provides details of the O2 refilling center and no Donation Box medium is present combined. This project will provide all medical details and easy access to equipment at one point which will help in saving lives and help society to be more connected.

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Introduction

The chief aim of this Project is to provide an easy access and ease in availability of resources and services. It contains three modules which provide details of Oxygen-refill centres, a donation box and third is price comparison on amazon and flipkart. Tool and Technology used to build this are Django Framework, Google Geolocation API, Places API, Maps JavaScript API and Directions API and tkinter and Python libraries. Inspiration to develop this Project came from the situation that India faced during 2nd wave of Covid-19. After so much development in science and technology we were unable to fulfil the basic requirement of people. If someone had the equipment's they didn't have the global connection with the people in need. So, this project tries to fill that gap. In current scenario there is no platform which has been designed keeping in mind the requirement of people and their necessity. So, This Project will surely help the society for to better reach. Further in different chapters this report shows how it works and provide accurate results on time.

Analysis and Requirements

Since the start of the COVID-19 outbreak, prices have surged. Surgical masks have seen a sixfold increase, N95 respirators have trebled and gowns have doubled and these factors helped in increasing the count of persons which had basic needs. So, as the data was large and needed to be saved to provide better details MySQL was used. MySQL is preferred over NoSQL because data needed to be consistent and database schema was fix. Django framework was preferable over others due to its scalability, ORM(Object relation Mapper), Template Handling, Form handling and the its based on MVT model. Any changes in any other layer won't affect the overall performance of the project. To get the data of user one registration page was added containing few basic questions regarding user details, so that user can be contacted easily.

Requirements:

Language: Python, JavaScript

Operating System: Windows, Linux

Package: Python libraries, Django framework

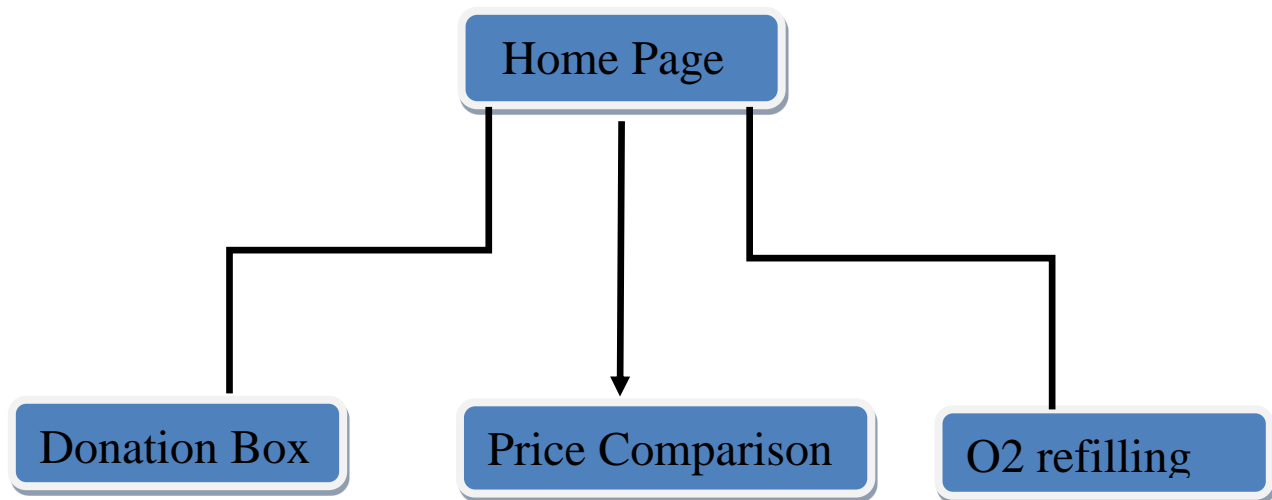
Tools: Tkinter, Google API's

Database: MySQL

IDE: Vscode

Design and Tables

Design



Tables

MySQL

```
mysql> desc user_profile_profile;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int  | NO   | PRI | NULL    | auto_increment |
| image | varchar(100) | NO   |     | NULL    |               |
| user_id | int  | NO   | UNI | NULL    |               |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

```
mysql> desc donationbox_post;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int  | NO   | PRI | NULL    | auto_increment |
| title | varchar(100) | NO   |     | NULL    |               |
| content | longtext | NO   |     | NULL    |               |
| date_posted | datetime(6) | NO   |     | NULL    |               |
| author_id | int  | NO   | MUL | NULL    |               |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Coding and Implementation

Home Page:

Covid Help Junction[Home](#)[Donation Box](#)[Price comparision](#)[Oxygen re-fill](#)

Hello, Welcome to the covid help junction.

We are here to help you in your hard days.

Donation Box:

DonationBox[Home](#)[Blogs](#)[Login](#)[Register](#)

Register Today


Name*

Birth date*

Contact*


Address*

DonationBox[Home](#) [Blogs](#) [New Post](#) [Profile](#) [Logout](#)

**himanshuchauhan** August 14, 2021

Extra Medicines

hi, I am from XXXX. My Uncle has been diagnosed with Covid19. i had purchased my medicine like paracetamol, remdesivir and oximeter. If anyone needs it contact me.
Address: XXXXXX
Contact Number: 7845851258

**himanshuchauhan** August 14, 2021

Medical Equipment's

Hi, My name is Ravi. I am from Uttar Pradesh. I had covid-19 a few months back and I had used an oximeter, thermometer, and Vaporizer.
Now am completely healthy and want to donate all equipment's i have used.
Address: house no- 18, block-A, Geeta colony, Uttar Pardesh.
Contact: 8684821547

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Find Routing
Find on Map

Find Oxygen Refilling center

Start Address
sheeshmahal,Hisar

Destination Address
Busstand,Hisar

As Django provide different app creations so three apps were created with each app having details of their tables in models.py which contain details of table to store the data and the logic for that app is saved in views.py. So, when the Http request comes Django searches the URL and return the logic associated with that URL. Then that logic render template using the data from models.py and logic from views.py.

Conclusion and remarks

All the responses of the project has been checked on the development server. Deploying of project should be done carefully as the API key is visible in settings.py. Besides current specialization we can add more module like volunteers where a person can help a family which is completely quarantined for their daily outside work like buying groceries or we can specialization in current module like adding delivery system in donation box.

Bibliography and References:

<https://console.cloud.google.com/apis/library/browse?filter=category:maps&project=numeric-virtue-321910>

<https://www.djangoproject.com/>

<https://getbootstrap.com/docs/4.0/getting-started/introduction/>