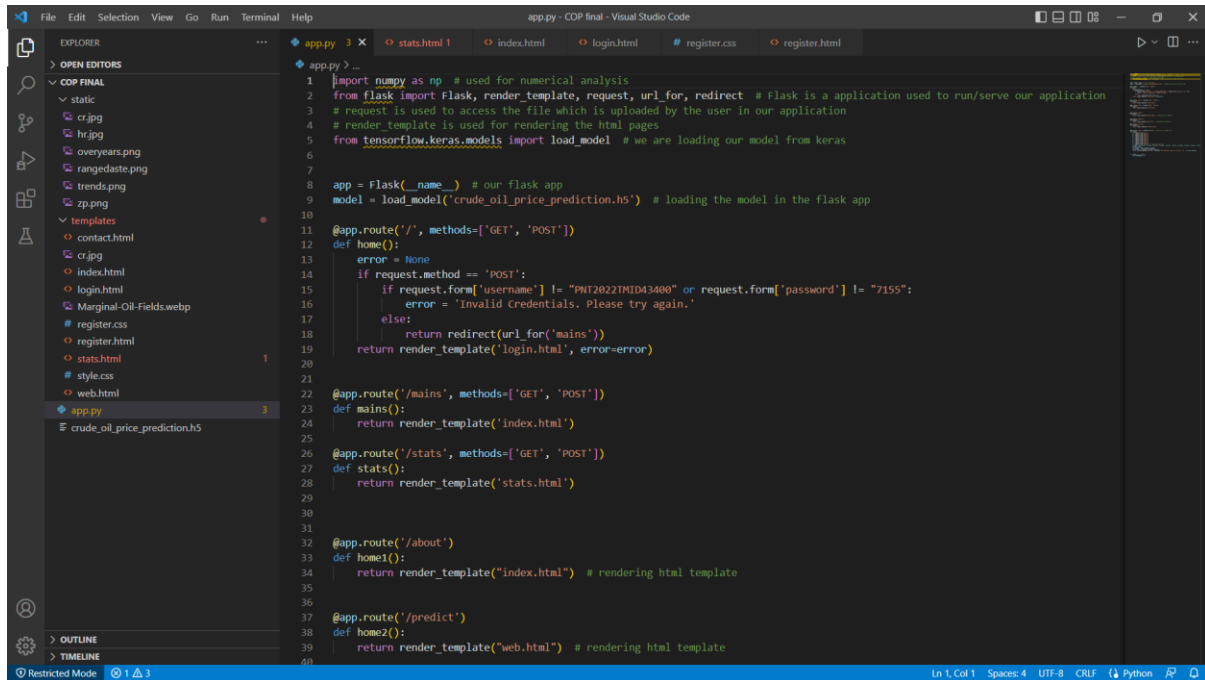


# Application Building

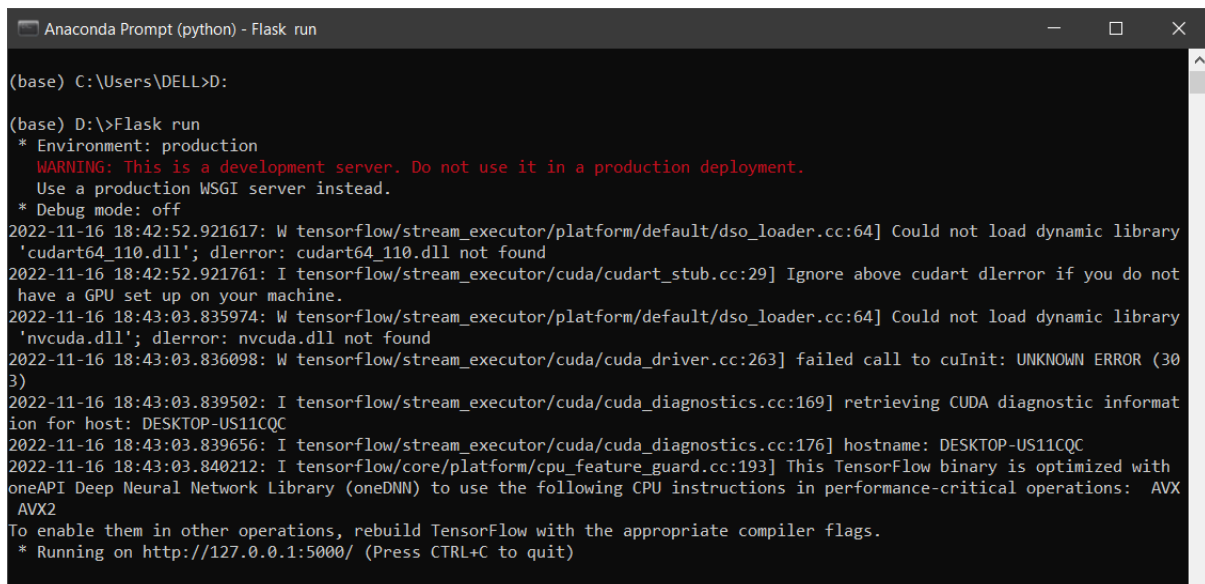
DATE	12.11.2022
TEAM ID	PNT2022TMID43400
PROJECT NAME	CRUDE OIL PRICE PREDICTION

## Project structure:



The screenshot shows the Visual Studio Code interface with the 'app.py' file open. The Explorer panel on the left shows the project structure, including a 'static' folder, 'cr.jpg', 'hr.jpg', 'overyears.png', 'rangedaste.png', 'trends.png', 'zp.png', 'templates' folder, 'contact.html', 'cr.jpg', 'index.html', 'login.html', 'Marginal-Oil-Fields.webp', 'register.css', 'register.html', 'stats.html', 'style.css', 'web.html', 'app.py', and 'crude\_oil\_price\_prediction.h5'. The main editor shows the code for 'app.py', which imports 'numpy', 'Flask', 'render\_template', 'request', 'url\_for', 'redirect', and 'load\_model'. It defines a Flask app, sets routes for home, mains, stats, about, and predict, and loads the 'crude\_oil\_price\_prediction.h5' model.

- Open Anaconda Prompt (Python) and direct the location to D drive, where app.py (a Python file) is located.



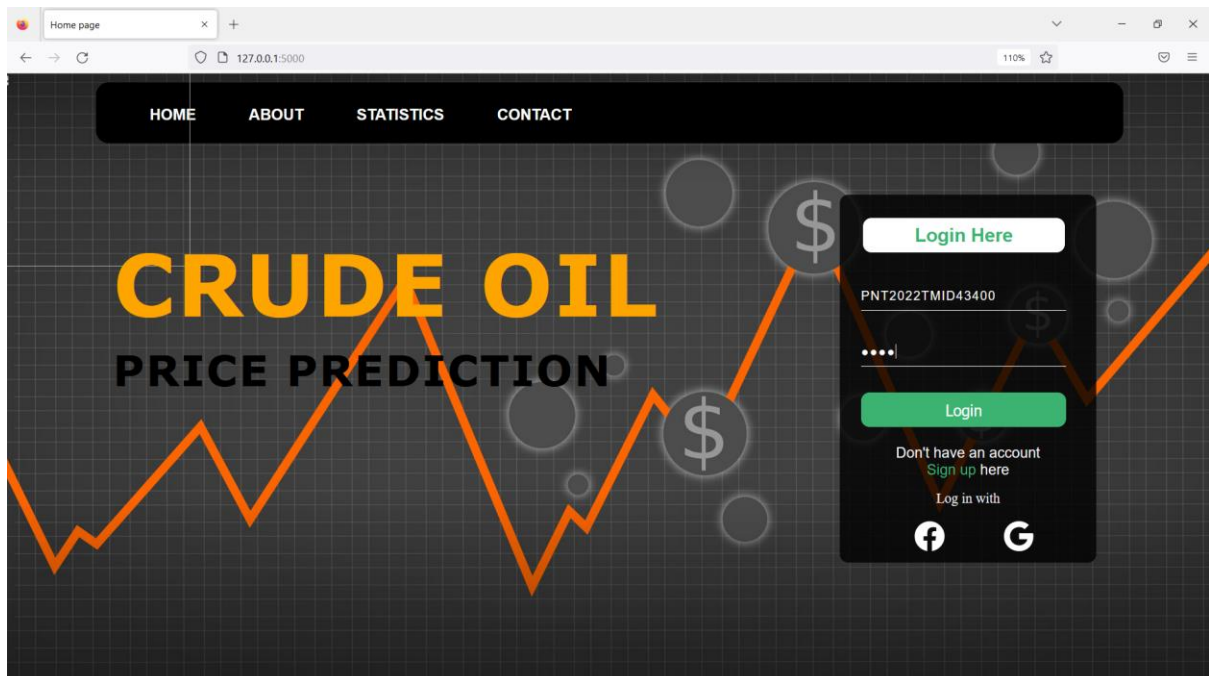
The screenshot shows the Anaconda Prompt (Python) - Flask run window. The command prompt shows the user navigating to the D drive and running 'Flask run'. The output displays the environment as 'production', a warning about using a development server, and debug mode as 'off'. It then shows the TensorFlow version (2.10.0) and the CUDA version (11.8). The output also shows the TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX, AVX2. The final output shows the server running on http://127.0.0.1:5000/.

- Copy the link: <http://127.0.0.1:5000/> and paste it in URL on Local Browser.

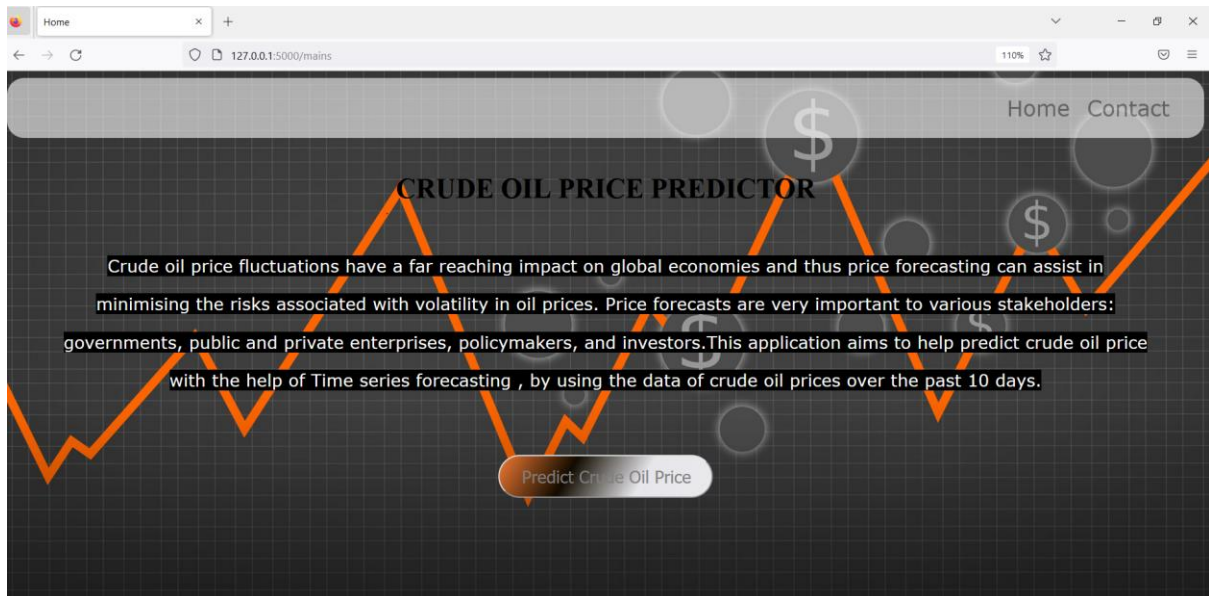
➤ Application Running Successfully in Local Browser on Flask using Anaconda Prompt:

```
Anaconda Prompt (python) - Flask run
2022-11-16 18:42:52.921761: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not
have a GPU set up on your machine.
2022-11-16 18:43:03.835974: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library
'nvcuda.dll'; dlerror: nvcuda.dll not found
2022-11-16 18:43:03.836098: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (30
3)
2022-11-16 18:43:03.839502: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic informat
ion for host: DESKTOP-US11CQC
2022-11-16 18:43:03.839656: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-US11CQC
2022-11-16 18:43:03.840212: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized with
oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: AVX
AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [16/Nov/2022 18:46:31] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [16/Nov/2022 18:46:31] "GET /cr.jpg HTTP/1.1" 404 -
127.0.0.1 - - [16/Nov/2022 18:46:33] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [16/Nov/2022 18:46:33] "GET /cr.jpg HTTP/1.1" 404 -
127.0.0.1 - - [16/Nov/2022 18:46:34] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [16/Nov/2022 18:51:04] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [16/Nov/2022 18:51:04] "GET /cr.jpg HTTP/1.1" 404 -
127.0.0.1 - - [16/Nov/2022 18:51:05] "GET /static/hr.jpg HTTP/1.1" 200 -
127.0.0.1 - - [16/Nov/2022 18:51:06] "GET /favicon.ico HTTP/1.1" 404 -
```

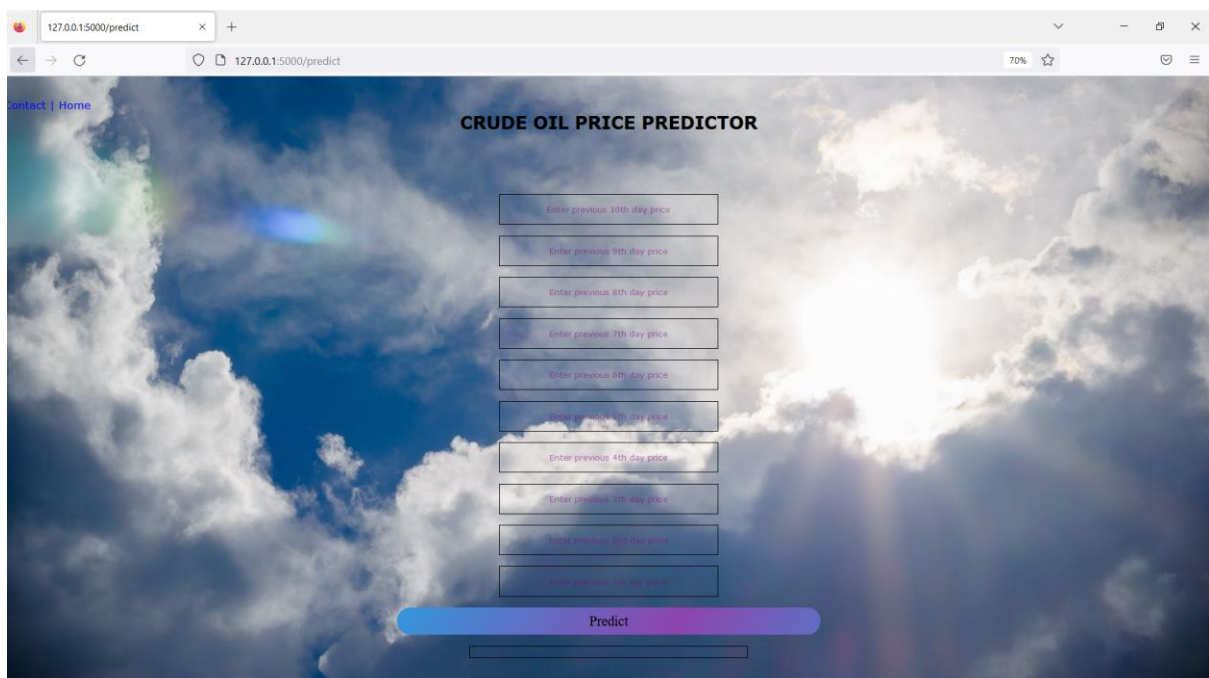
➤ Logging in with user and password

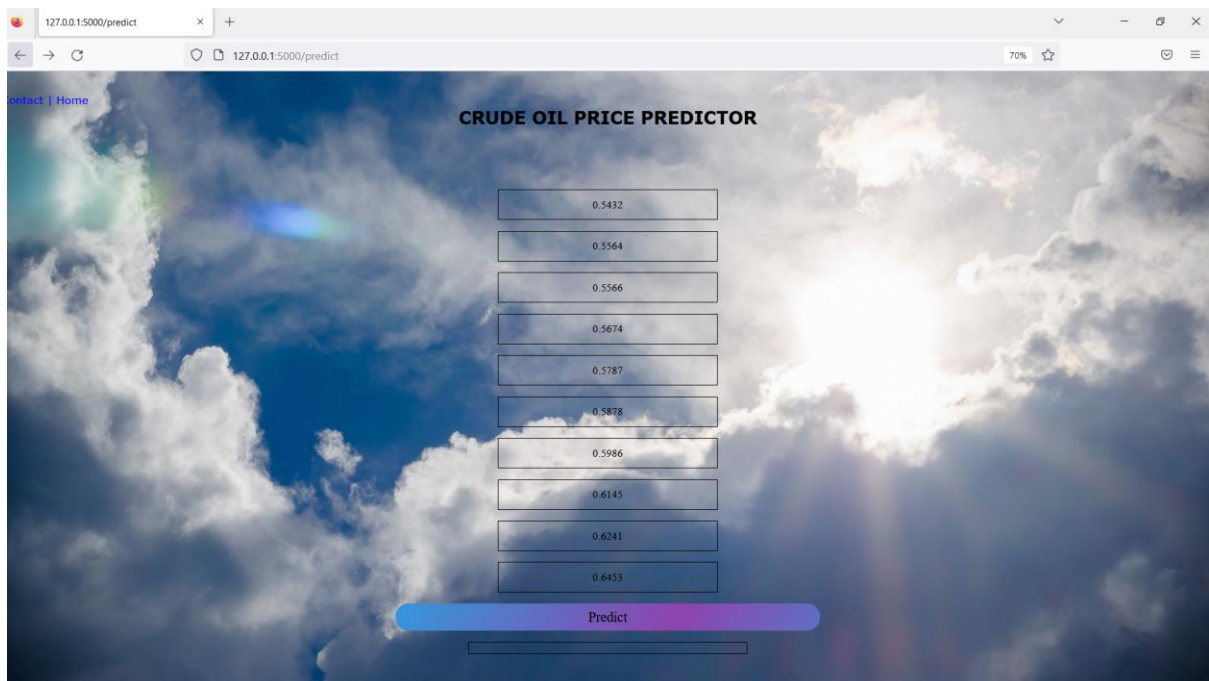


- Log in Home Page after Successful login:

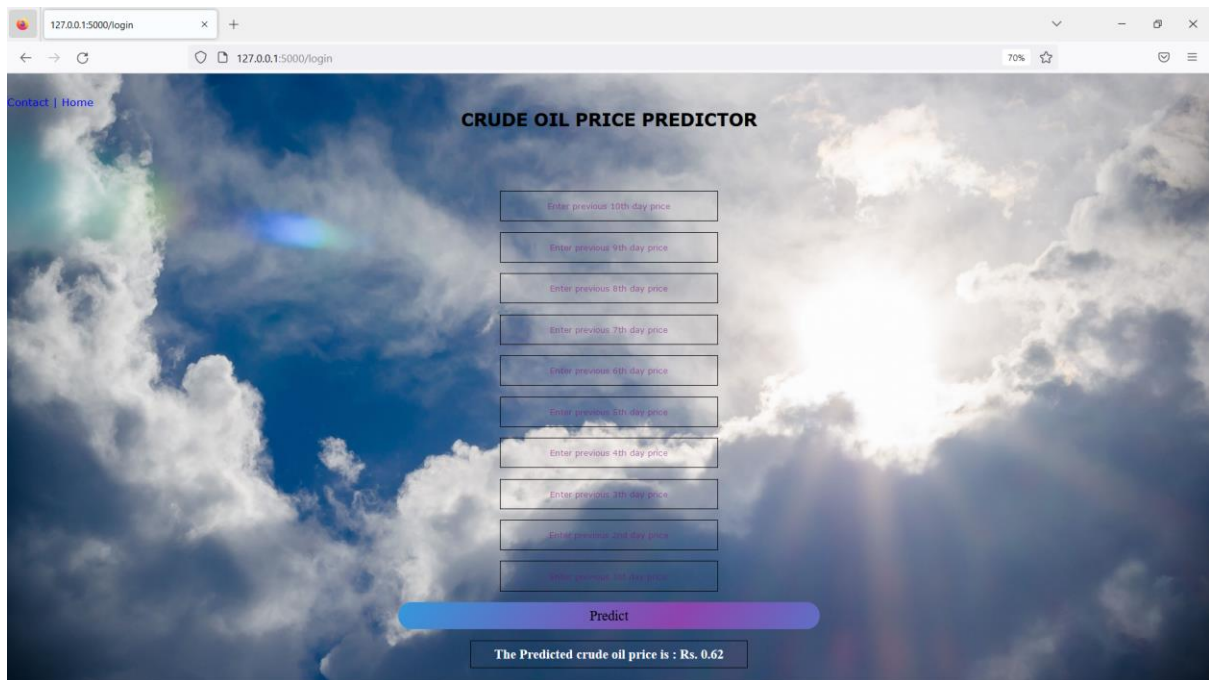


- Click Predict crude Oil price
- Price Prediction Page will be displayed: Enter the last ten days' Oil price to predict the next day's price:



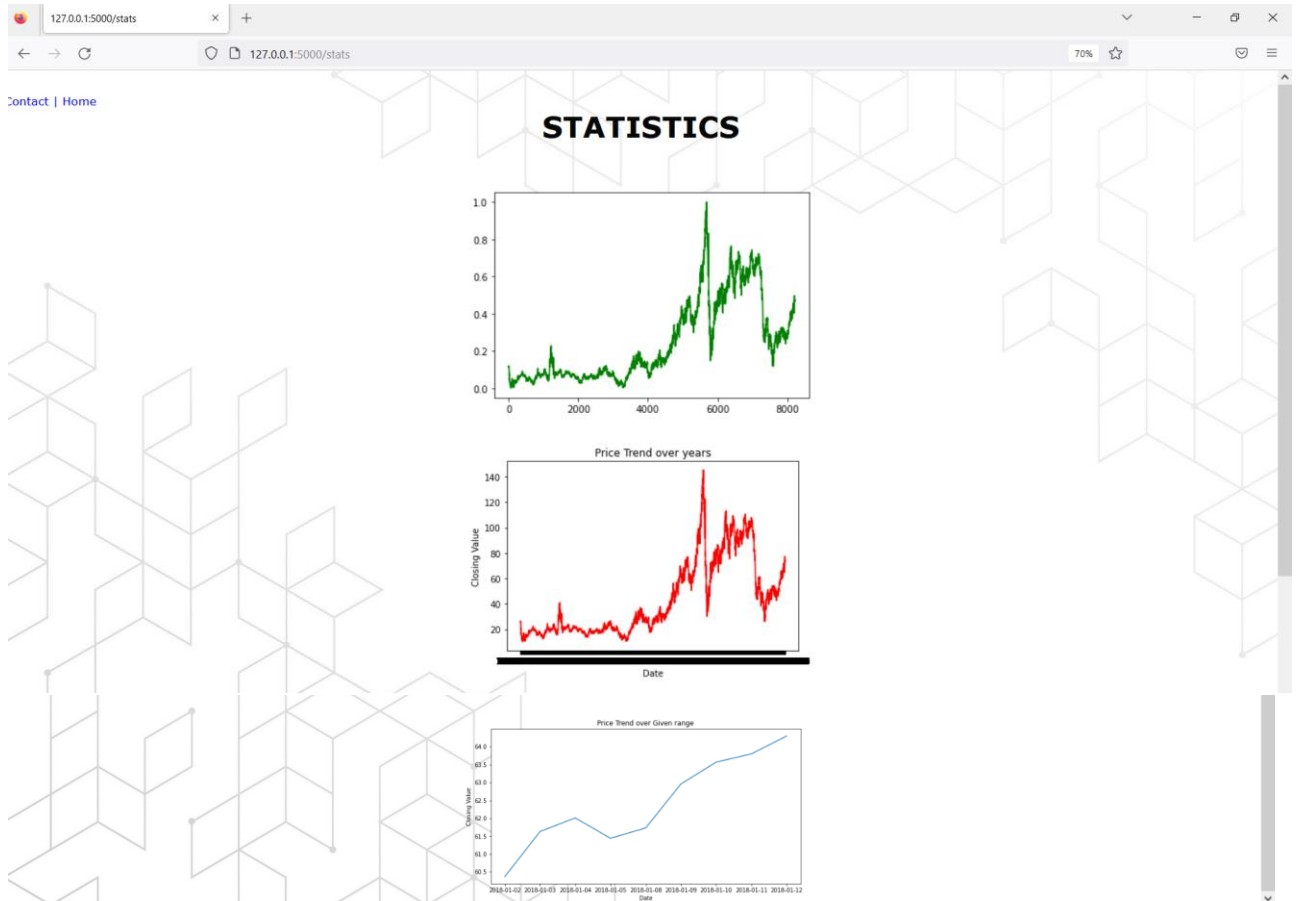


➤ Predicted Crude Oil Price will be displayed.



## Addition Features:

### Statics:





Contacts:

Contacts

127.0.0.1:5000/contact

120%

# CONTACTS

NAME	EMAIL	COLLEGE
Sivaprasath M K (Team Leader)	mksivaprasath@gmail.com	PSG Institute of Technology and Applied Research
Hariharan M (Team Member 1)	hariharan15061@gmail.com	PSG Institute of Technology and Applied Research
Devanand R P (Team Member 2)	deepakdeva.rv@gmail.com	PSG Institute of Technology and Applied Research
Gowtham S (Team Member 3)	sgowtham9399@gmail.com	PSG Institute of Technology and Applied Research