

## Project: Locate the pharmacy which is nearest to the given user location

Prerequisites: Python, Flask, MySQL Workbench

Open MySQL Workbench. Create a schema with name pharmacies and then imported the given pharmacies.csv file into an already created table pharmacies in mysql using the following query

Query:

```
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/pharmacies.csv'
INTO TABLE pharmacies
```

```
FIELDS TERMINATED BY ',' ENCLOSED BY ''
```

```
LINES TERMINATED BY '\n'
```

```
IGNORE 1 rows;
```

Built an API using the flask framework. Extract the attached zip folder. Demo.py is the python file. Html files are present in the templates folder. pharmacies.sql is the sql script file.

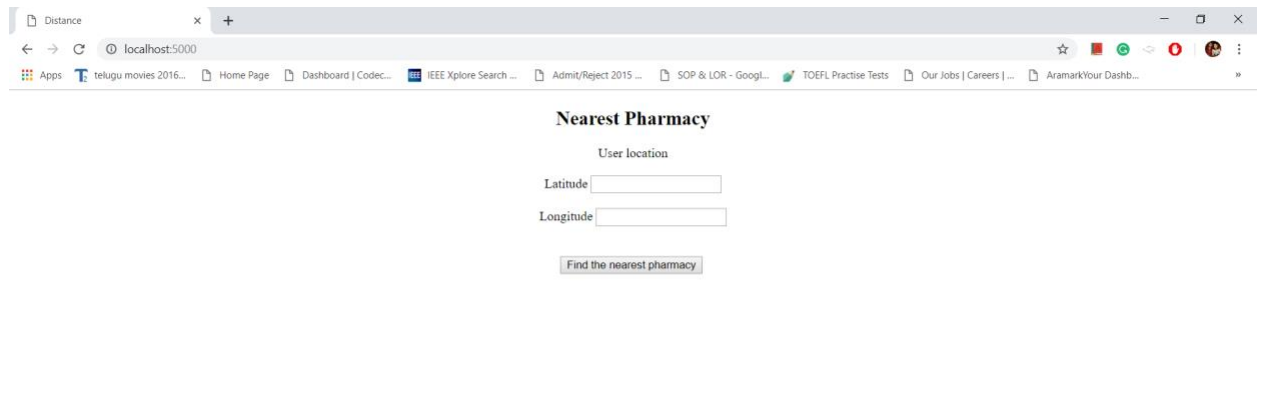
To run this application, we need to install flask using the following command on to the command prompt i.e. pip install flask

Application runs on <http://localhost:5000> and the distance between the given user location and the nearest pharmacy both in kms and miles and also the nearest pharmacy details gets displayed.

Database:

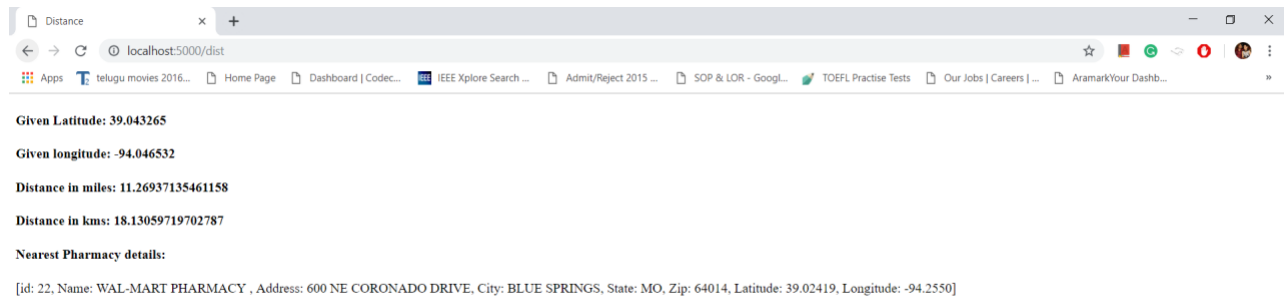
name	address	city	state	zip	latitude	longitude
WALGREENS	3696 SW TOPEKA BLVD	TOPEKA	KS	66611	39.00142	-95.6870
KMART PHARMACY	1740 SW WANAMAKER ROAD	TOPEKA	KS	66604	39.03504	-95.7587
CONTINENTAL PHARMACY LLC	821 SW 6TH AVE	TOPEKA	KS	66603	39.05433	-95.6845
STORMONT-VAIL RETAIL PHARMACY	2252 SW 10TH AVE.	TOPEKA	KS	66604	39.05167	-95.7053
DILLON PHARMACY	2010 SE 29TH ST	TOPEKA	KS	66605	39.01638	-95.6507
WAL-MART PHARMACY	1501 S.W. WANAMAKER ROAD	TOPEKA	KS	66604	39.03955	-95.7646
KING PHARMACY	4033 SW 10TH AVE	TOPEKA	KS	66604	39.05121	-95.7270
HY-VEE PHARMACY	12122 STATE LINE RD	LEAWOOD	KS	66209	38.90775	-94.6080
JAYHAWK PHARMACY AND PATIENT SUPPLY	2860 SW MISSION WOODS DR	TOPEKA	KS	66614	39.01505	-95.7787
PRICE CHOPPER PHARMACY	3700 W 95TH ST	LEAWOOD	KS	66206	38.95792	-94.6288
AUBURN PHARMACY	13351 MISSION RD	LEAWOOD	KS	66209	38.88535	-94.6280
CVS PHARMACY	5001 WEST 135 ST	LEAWOOD	KS	66224	38.88323	-94.6452
SAMS PHARMACY	1401 SW WANAMAKER ROAD	TOPEKA	KS	66604	39.04160	-95.7646
CVS PHARMACY	2835 SW WANAMAKER RD	TOPEKA	KS	66614	39.01550	-95.7643
HY-VEE PHARMACY	2951 SW WANAMAKER RD	TOPEKA	KS	66614	39.01216	-95.7639
TALLGRASS PHARMACY	601 SW CORPORATE VIEW	TOPEKA	KS	66615	39.05716	-95.7669
HUNTERS RIDGE PHARMACY	3405 NW HUNTERS RIDGE TE...	TOPEKA	KS	66618	39.12985	-95.7127
ASSURED PHARMACY	11100 ASH ST STE 200	LEAWOOD	KS	66211	38.92663	-94.6474
WALGREENS	4701 TOWN CENTER DR	LEAWOOD	KS	66211	38.91619	-94.6404
PRICE CHOPPER PHARMACY	1100 SOUTH 7 HWY	BLUE SPR...	MO	64015	39.02931	-94.2718

## Initial Web page:



A screenshot of a web browser window. The address bar shows 'localhost:5000'. The browser has several tabs open, including 'Distance', 'telugu movies 2016...', 'Home Page', 'Dashboard | Codec...', 'IEEE Xplore Search ...', 'Admit/Reject 2015 ...', 'SOP & LOR - Googl...', 'TOEFL Practise Tests', 'Our Jobs | Careers | ...', and 'AramarkYour Dashb...'. The main content area displays a form titled 'Nearest Pharmacy'. The form includes a label 'User location', two input fields for 'Latitude' and 'Longitude', and a button labeled 'Find the nearest pharmacy'.

## Output:



A screenshot of a web browser window showing the output of the 'Nearest Pharmacy' form. The address bar shows 'localhost:5000/dist'. The browser has the same tabs as the previous screenshot. The main content area displays the following output:

**Given Latitude: 39.043265**

**Given longitude: -94.046532**

**Distance in miles: 11.26937135461158**

**Distance in kms: 18.13059719702787**

**Nearest Pharmacy details:**

[id: 22, Name: WAL-MART PHARMACY , Address: 600 NE CORONADO DRIVE, City: BLUE SPRINGS, State: MO, Zip: 64014, Latitude: 39.02419, Longitude: -94.2550]