**On Call Cab Service**

This is an basic web application for On call cab service. By using this we can see all the cabs available with their location on google map. Once we get the call from any consumer, we will go to this portal and search for location the consumer ask. The output will show the number of cabs available with in the range provided. Then there would be an option to book the cab. Once the cab is booked, it will not be free for any other to book the same cab till the trip is ended. When we end the trip, it shows the total amount the consumer needs to pay with breakdown of all the charges.

**Code level document:**

[*https://github.com/nkpatil/on\_call\_cab*](https://github.com/nkpatil/on_call_cab)

*Above is the url where I have pushed the code.*

I have used django, python and frontend like html, javascript, ajax etc. to implement this.

There are 2 directories, one (OnCallCab) is the project directory which is containing the settings for the project and another is the app (cab) which contain the actual code for this application.

In parallel there is manage.py which has some configuration to run the web server since django framework has it's own development server.

Inside the app directory, there is a directory called static which contains static files like js, css and images but in this application we only have some images and the another directory (templates) contains the html files which is used by django framework to show the visualization.

There is a file called urls.py which contains all the urls we will use to open all parts of this application.

View.py is the main heart of the application which contains the backend code and has separate views for each APIs.

Models.py contains the database table structure. And the admin.py has the configuration to use the database with the admin portal provided by django framework itself.

**Steps to run the application:**

Dependencies (to be installed in linux machine):

* python 2.7
* django 1.6.2
* git

Clone the source code from github:

*git clone* [*https://github.com/nkpatil/on\_call\_cab.git*](https://github.com/nkpatil/on_call_cab.git)

Once the project is cloned to the local machine, go to the project directory called on\_call\_cab and run the app using below command:

*python manage.py runserver*

This will start the django development server and run the application on localhost with default port 8000. If you want to run this with any specific ip and port use below command:

*python manage.py runserver <ip>:<port>*

Once the server is started you can access the application using below url:

<http://127.0.0.1:8000/cabs/>

It will show all the registred cabs in the google map with color coded according to cab type and booking status.

Also below map there is an option to enter a location and choose the cab type and the kilometer range in which you want to find the cab.

Once we click on the button named “get cars availability”, it will show the number of cars available near to given location in the right panel.

If the number of cars available is greater than zero then it will show an option to book the cab.

Once we book the cab, the cab will be disabled for another booking till we end the trip for that cab and it will still show on map with gray colored (booked).

And it will show the car information like car number, car name etc.

To end the trip also I have made one simulation:

<http://127.0.0.1:8000/cabs/manage_trip>

Here just type the end location and the car number (which is shown there on above url when we mouse over any car) and the minutes taken to complete the trip.

Once we click on end trip, it will show the total amount the consumer need to pay with breakdown of all the charges. And the cab will now be free to take another booking and the color will be changed to normal which you can see going to the home url.

<http://127.0.0.1:8000/cabs>

Also there is an admin portal to add new car:

<http://127.0.0.1:8000/admin>

username: admin

password: admin

Using this portal you can see all the registered cars and update those as well.

There is an option to add new car as well. Also there are some filters to search the car by number or type.

There are lot of improvements we can do in this but for time being I was able to develop this much only.

Let me know if you have any query related to code and to run the application.