

Project Name : Car Pooling System

Group -

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What is Car Pooling System?

Carpooling is the concept of sharing your car to accommodate more than one person at a time, eliminating the need for riders to drive themselves in separate vehicles.

Need and Relevance -

Carpooling will save YOU money

Carpooling allows you to share the cost of gas and parking, cutting your expenses by nearly 50% or more; the more occupants in your carpool the more you save. Carpooling is also socially economical. Not only will you be saving, but you will also help reduce the costs we all pay towards the construction of new roads, road maintenance and air pollution related health costs.

Carpooling is better for the environment

Having fewer cars on the road means reduced Greenhouse Gas (GHG) emissions and improved air quality.

It's good for your health

According to Environment Canada, air pollution caused by vehicular travel is linked to a number of health concerns including respiratory diseases, cardiovascular disease, allergies and neurological effects. By carpooling, you help reduce these health risks for yourself and everyone else. Research also suggests that carpooling is less stressful than commuting alone.

Carpooling is convenient

Carpooling provides commuting convenience comparable to driving alone, with less stress and with the added bonus of companionship while you're commuting. Carpooling partners establish their own unique rules that best meet the needs of their carpool.

Carpooling improves your commuting options

Carpooling offers a commuter option that may work better than other methods of transportation. Carpooling works best for people who live where transit service may be limited or non-existent and compared to other options, carpooling may better fit your schedule.

Workflow:

To Book a ride -

- 1) User will select the Source City, Destination City ,desired date of travel and number of passengers.**
- 2) Accordingly , system will show relevant rides to the user**
- 3) User will select ride of his/her choice.**
- 4) Booking will be confirmed after this.**

To Publish a ride -

- User will enter the details of ride.

- **Source City**
- **Destination City**
- **Number of seats offered**
- **Ride Date**
- **Ride Time**
- **Car Model**
- **Car Registration Number**

After entering all the details user can publish the ride and it will be available for other users to book.

Tech Stack Used -

Python 3+
React Js

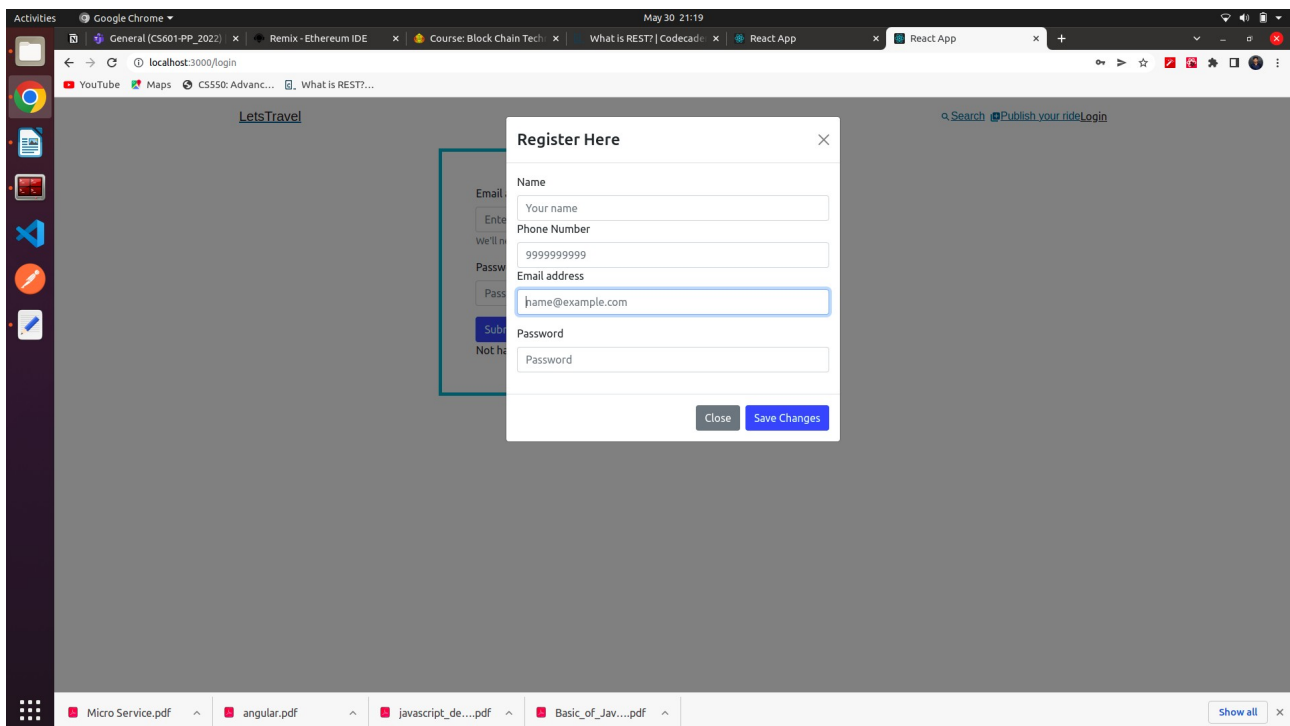
Output Screens -

Server Running

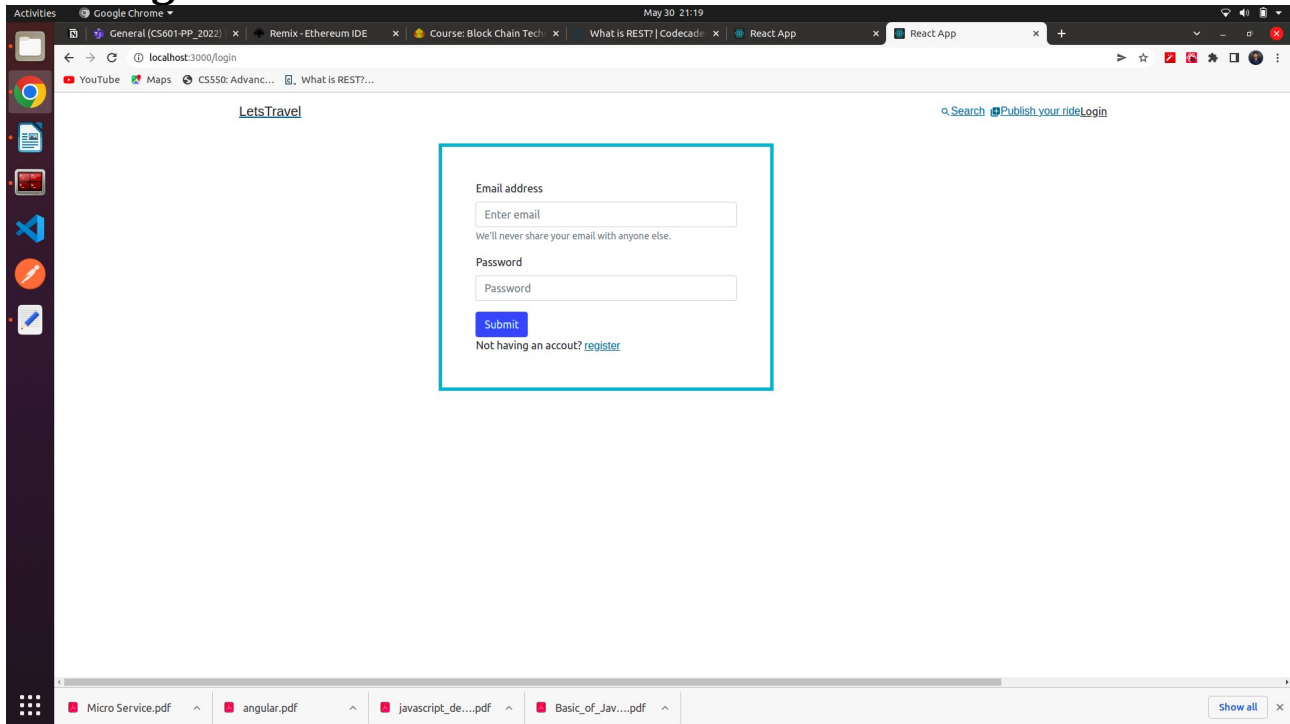
```
python service.py
npm start 75x39
Compiled with warnings.
src/App.js
  Line 10:10: 'Footer' is defined but never used  no-unused-vars
Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.
WARNING in src/App.js
  Line 10:10: 'Footer' is defined but never used  no-unused-vars
webpack compiled with 1 warning

(env3) → backend git:(development) X python service.py
* Serving Flask app 'service' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://10.31.218.165:8048/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 316-171-924
```

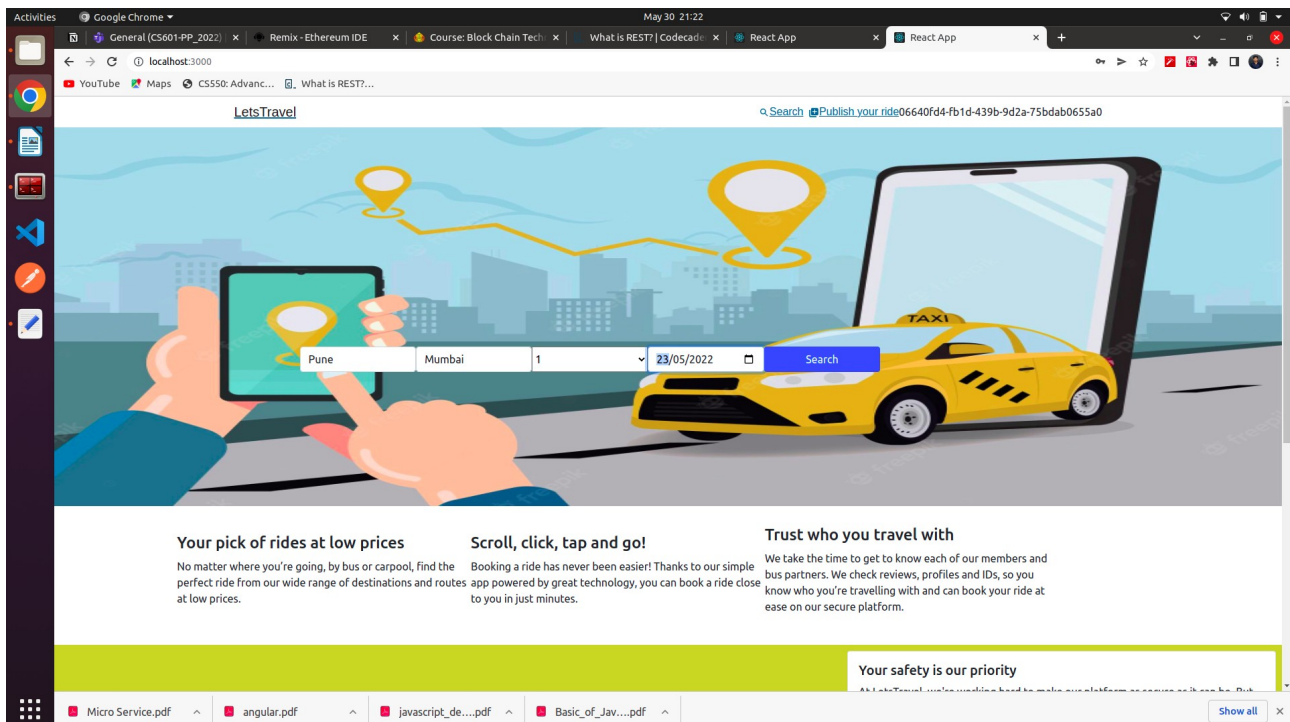
User Registration



User login



Search for ride



Available rides anf Book Ride

The screenshot shows a web browser window with the URL `localhost:3000/get-all-rides`. The page title is "Rides Available from Location Pune To Mumbai". The table below lists available rides:

CAR MODEL	START TIME	END TIME	SEATS	COST PER HEAD(in RS)	Let's Book
Tata-Altroz	2pm	3pm	2	350	Book Ride
Ertiga	2pm	6pm	2	350	

The browser's taskbar at the bottom shows several open PDF files: "Micro Service.pdf", "angular.pdf", "javascript_de....pdf", and "Basic_of_Jav....pdf".

Confirm Booking

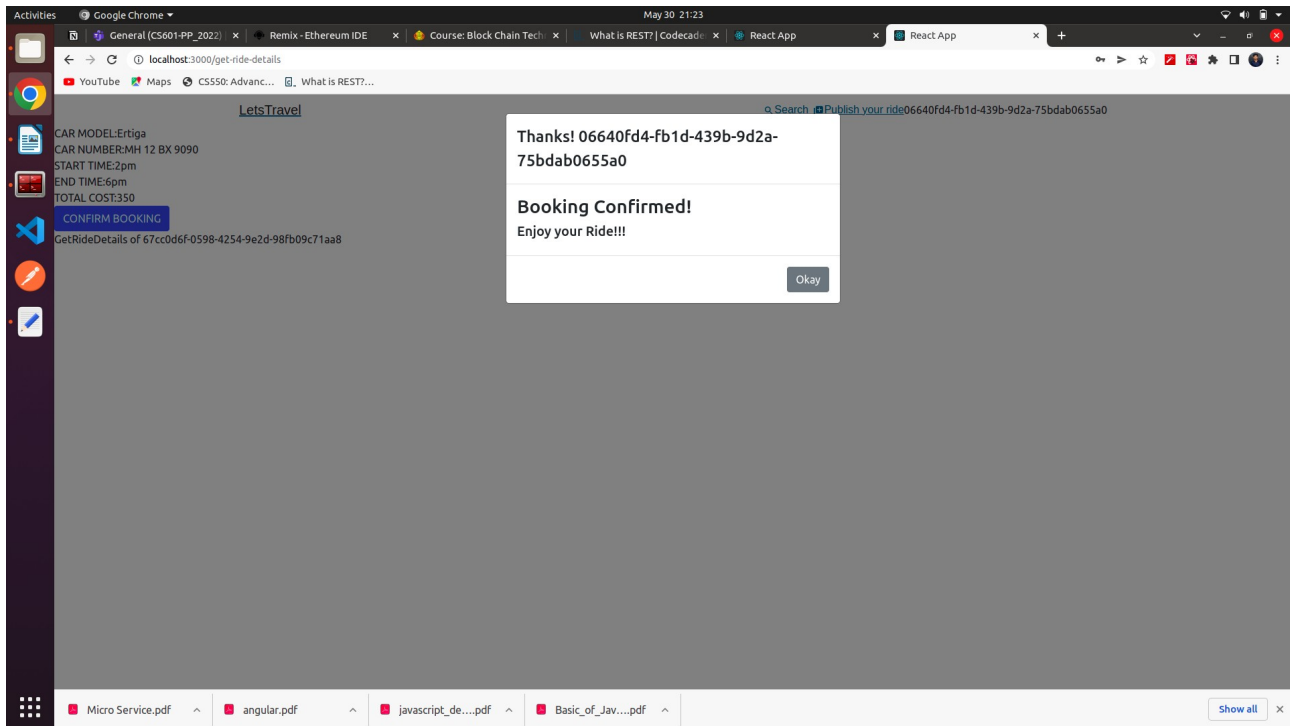
The screenshot shows a web browser window with the URL `localhost:3000/get-ride-details`. The page displays the following details:

- CAR MODEL:Ertiga
- CAR NUMBER:MH 12 BX 9090
- START TIME:2pm
- END TIME:6pm
- TOTAL COST:350

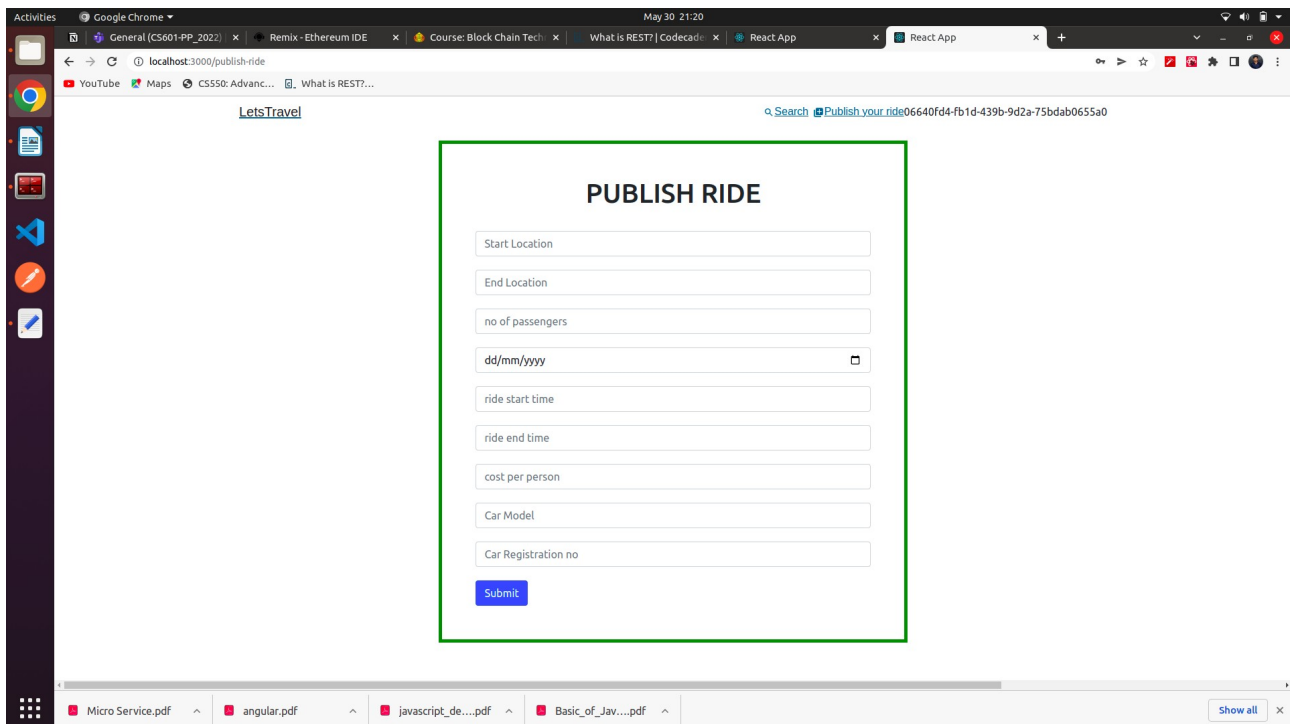
A blue button labeled "CONFIRM BOOKING" is visible. Below the details, the text "GetRideDetails of 67cc0d6f-0598-4254-9e2d-98fb09c71aa8" is displayed.

The browser's taskbar at the bottom shows the same open PDF files as the previous screenshot: "Micro Service.pdf", "angular.pdf", "javascript_de....pdf", and "Basic_of_Jav....pdf".

Booking Confirmed



Publish Ride



Publish Ride Successfully

