Cloud Based Parking System
Project mid-progress report

- **Team members-:**
  Harmeet Singh-16233090
  RajarshiTarafdar-16232740

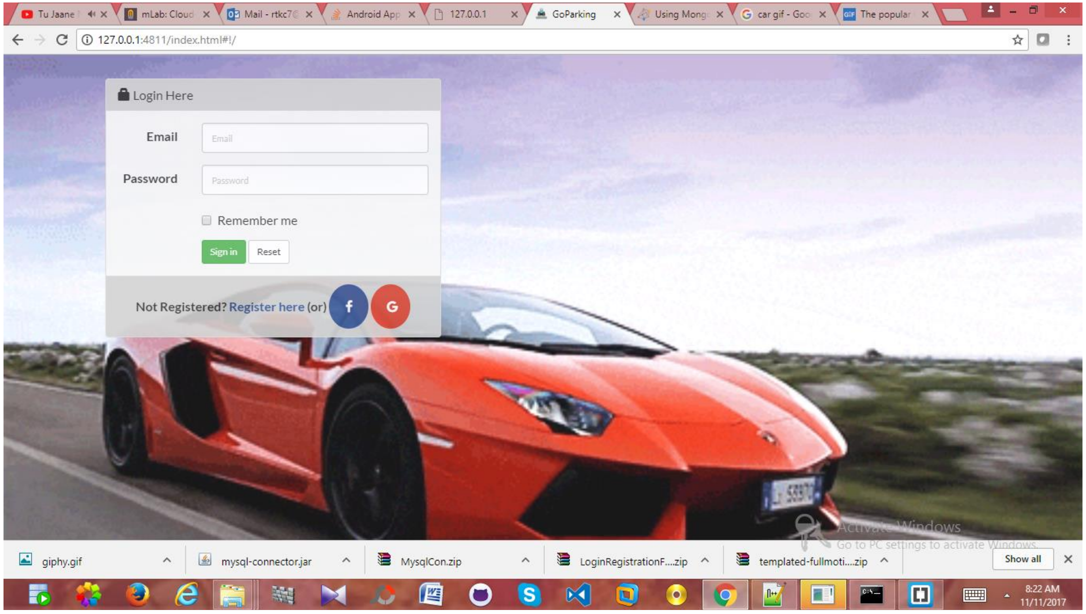
- **Individual member's focus contribution area-:**

  Rajarshi Tarafdar-Design of pages, CSS, HTML, Bootstrap, Login and Reset, List view, Search nearby locations, Profile Creation, MongoDB, Node and Express Js.

  Harmeet Singh-Design of pages, CSS, HTML, Bootstrap, Registration page, Map view and fetching, Delete Account, Angular Js responsive pages

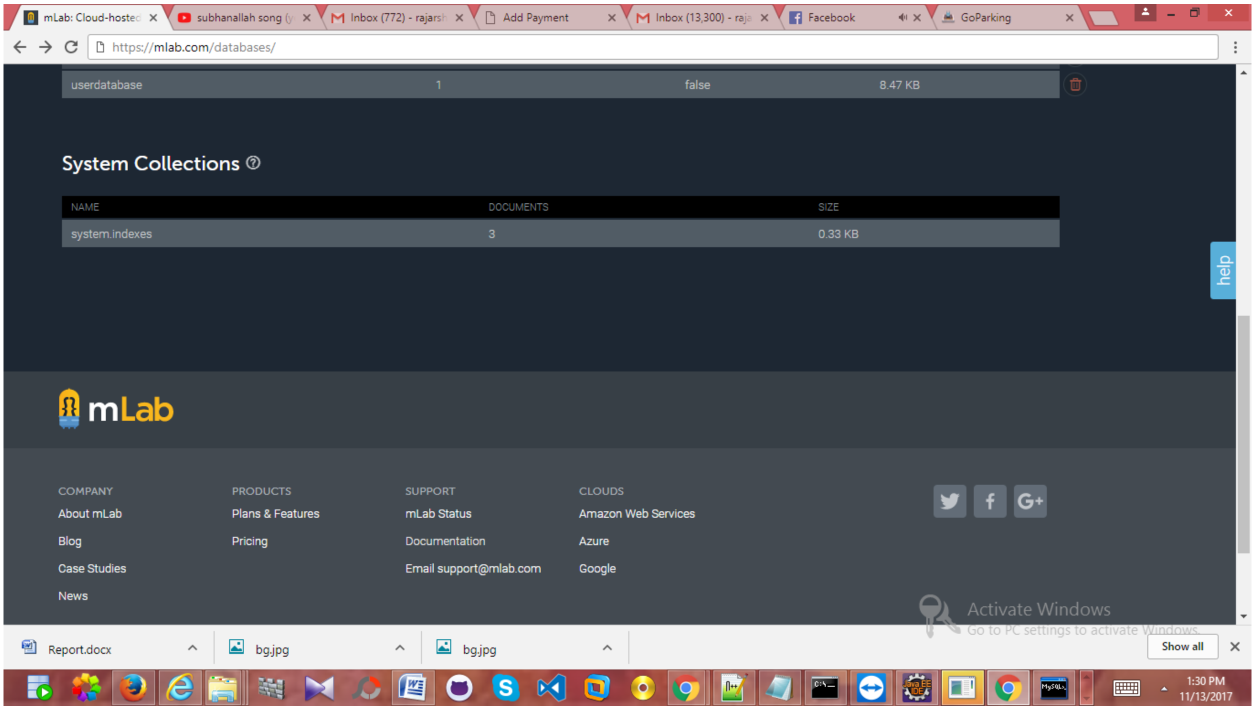
- **Goal-**:
  - As today in the modern era as everything is online and one click so why not parking. So, We intend to design an application for the users which can facilitate the ease of parking. It not only shows the nearby API parking availability but also allows user to reserve the for them in advance. Once user reserve parking spot he or she is notified by an email and there will be a secure payment link in that email with which users can Pay in advance to confirm their booking. We also intend to design eye catching user interface which not only makes an application attractive but also one click. The database for this application stores the record for all the users who get registered. The database gets up updated as no of users increases. This data base can be stored locally or globally.

- **Progress status** - (Screenshots, figures as appropriate)
  Following screenshots depicts an evidence of work done. These all are in sequential order of their functionality.
  - ➢ **Home Page-**



➢

➢ Database HomePage-

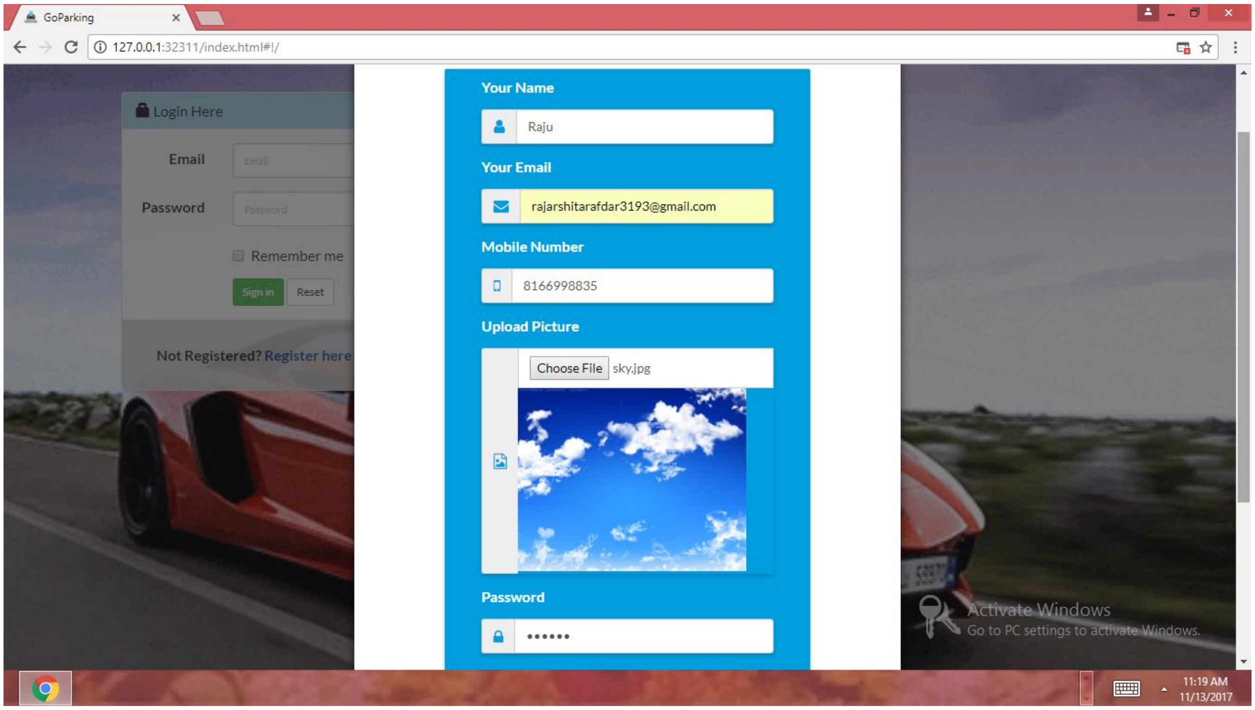


userdatabase	1	false	8.47 KB

System Collections

NAME	DOCUMENTS	SIZE
system.indexes	3	0.33 KB

➢ New User Registration Page-



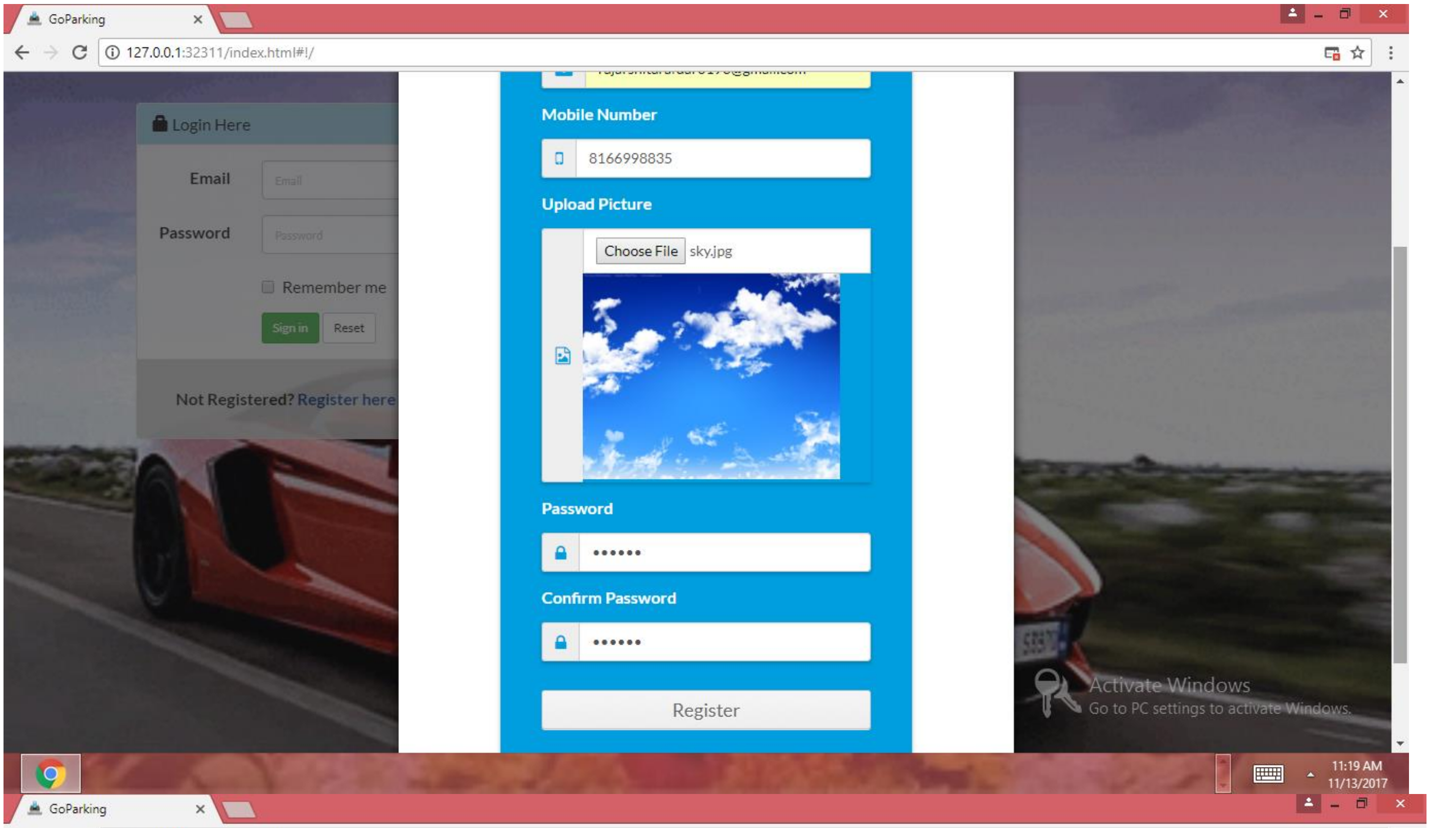
Your Name
Raju

Your Email
rajarshitarafdar3193@gmail.com

Mobile Number
8166998835

Upload Picture
sky.jpg

Password
••••••



GoParking

127.0.0.1:32311/index.html#!/

Login Here

Email: Email

Password: Password

□ Remember me

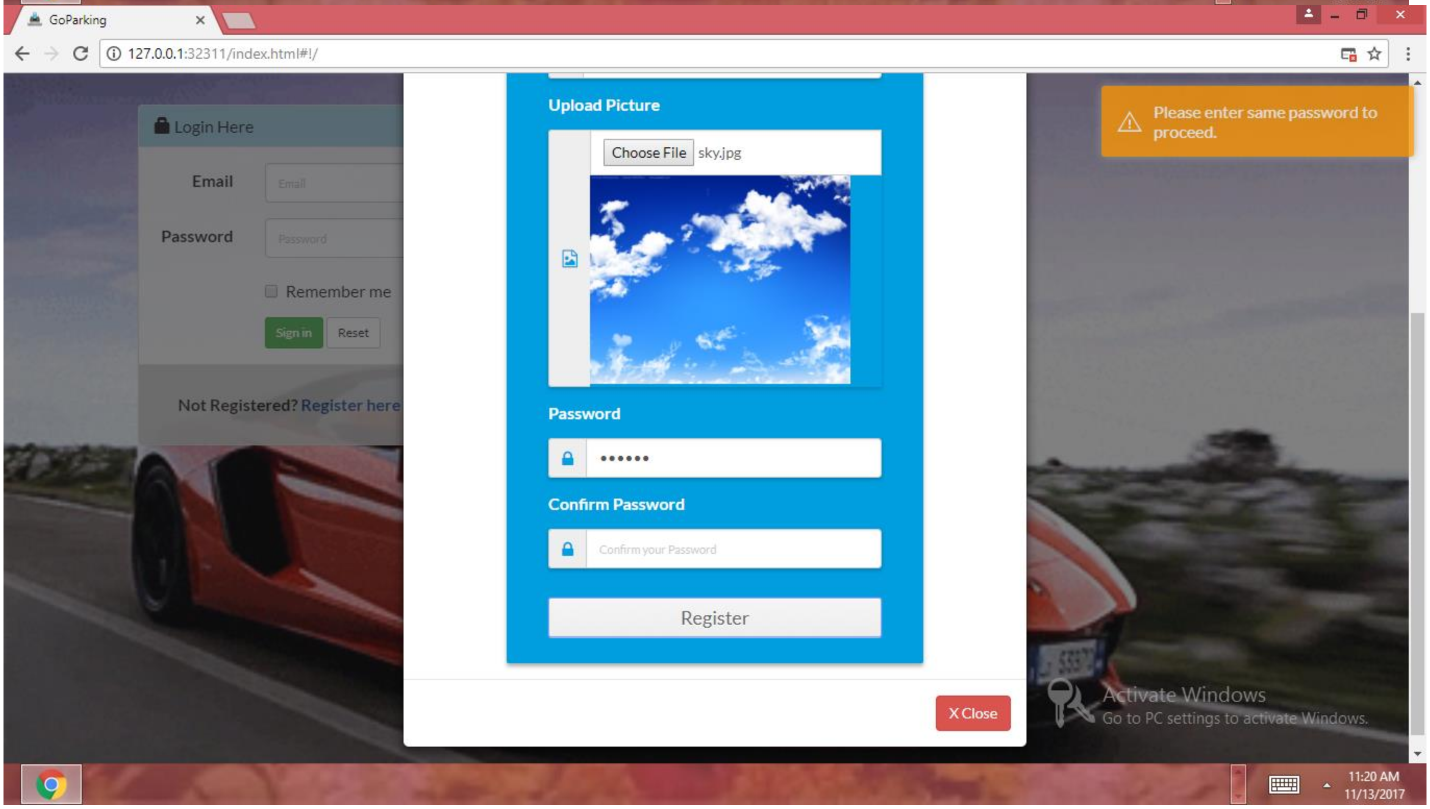
Not Registered? Register here

Mobile Number: 8166998835

Upload Picture: Choose File sky.jpg

Password: ••••••

Confirm Password: ••••••



GoParking

127.0.0.1:32311/index.html#!/

Please enter same password to proceed.

Login Here

Email: Email

Password: Password

□ Remember me

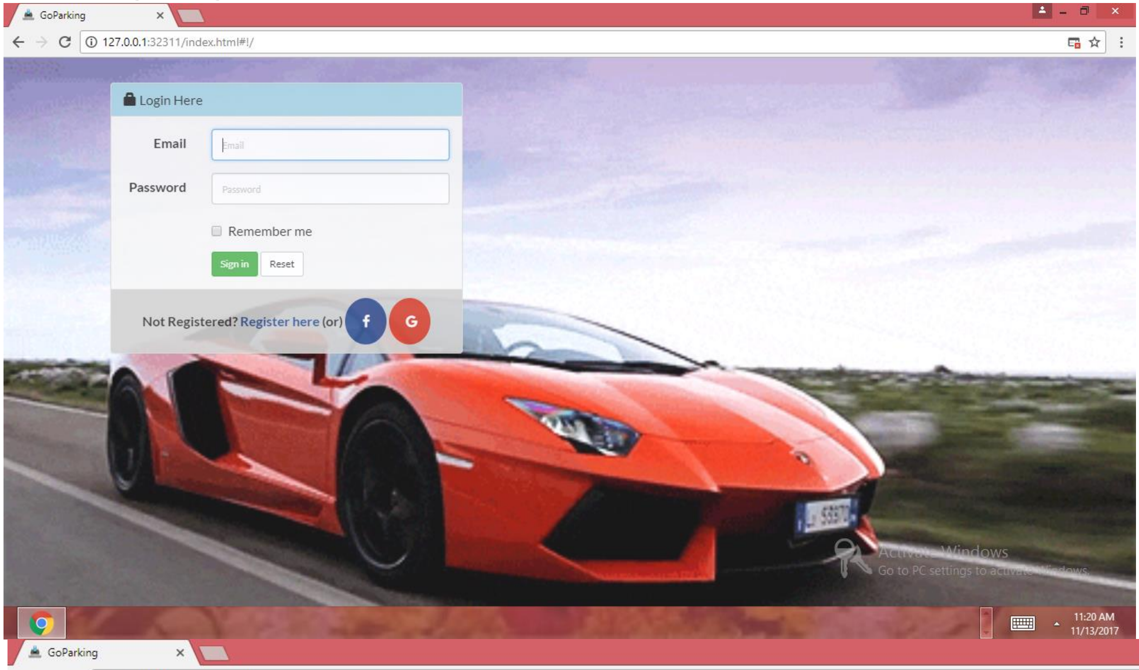
Not Registered? Register here

Upload Picture: Choose File sky.jpg

Password: ••••••

Confirm Password: Confirm your Password

➢ Login Page-



Login Here

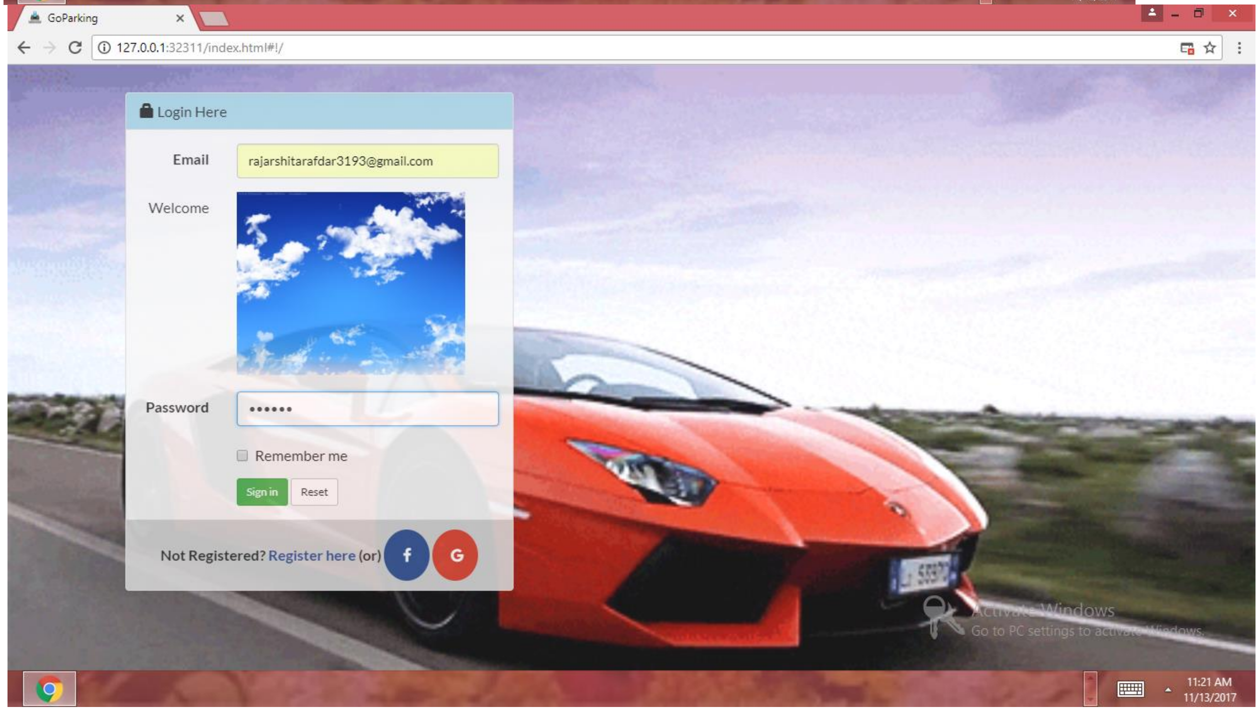
Email: Email

Password: Password

□ Remember me

Sign in | Reset

Not Registered? Register here (or) f G



Login Here

Email: rajarshitarafdar3193@gmail.com

Welcome

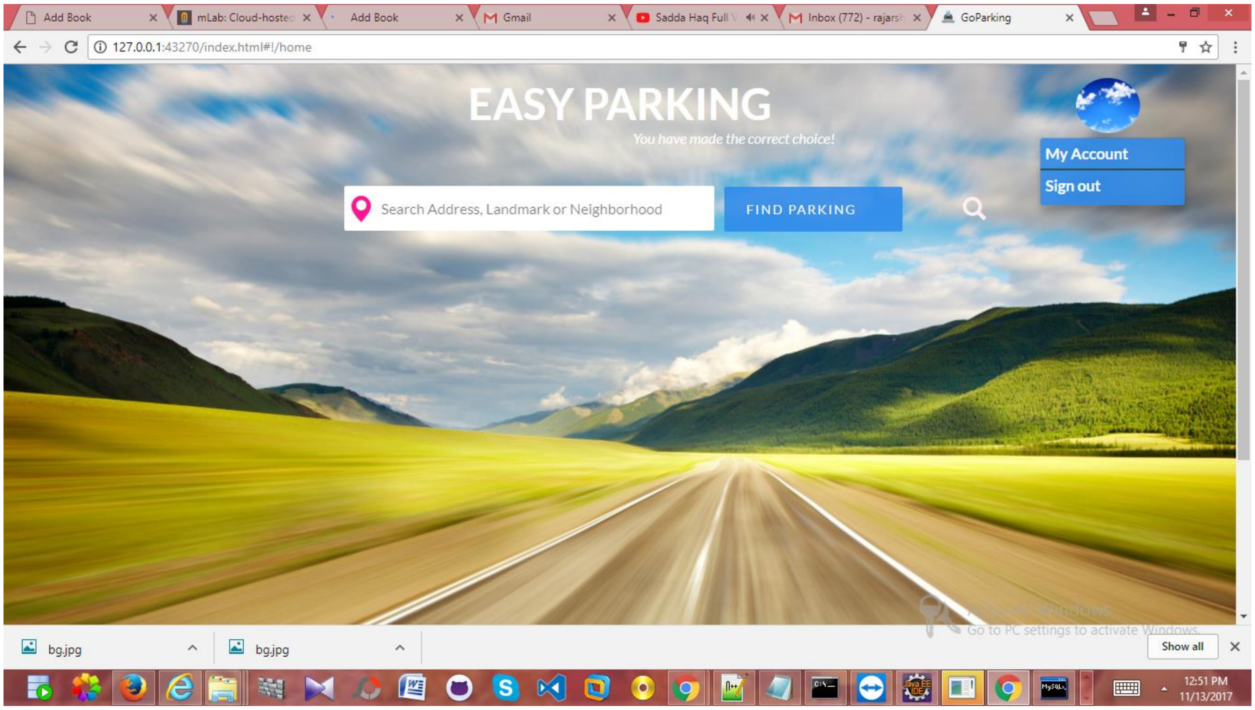
Password: ••••••

□ Remember me

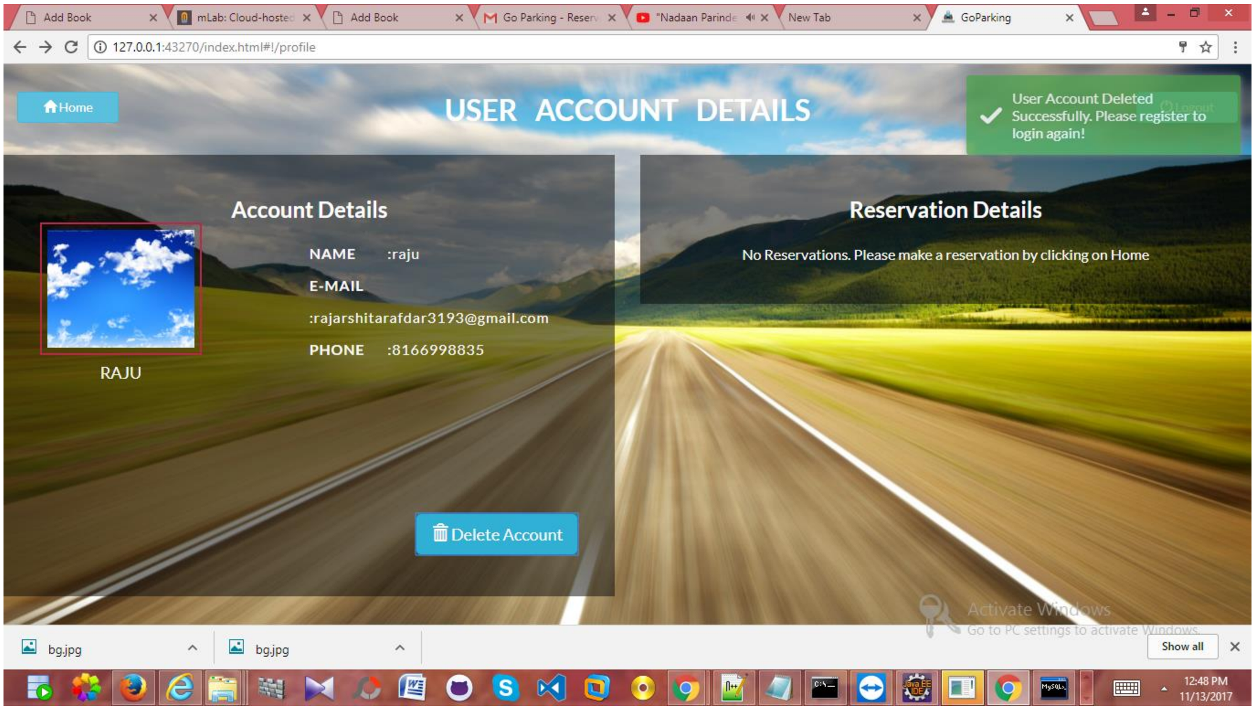
Sign in | Reset

Not Registered? Register here (or) f G

- **Main Page-**


127.0.0.1:43270/index.html#!/home
EASY PARKING
You have made the correct choice!
Search Address, Landmark or Neighborhood
FIND PARKING
My Account
Sign out

- **Account Details**



User Account Deleted Successfully. Please register to login again!

Account Details

NAME :raju

E-MAIL

:rajarshitarafdar3193@gmail.com

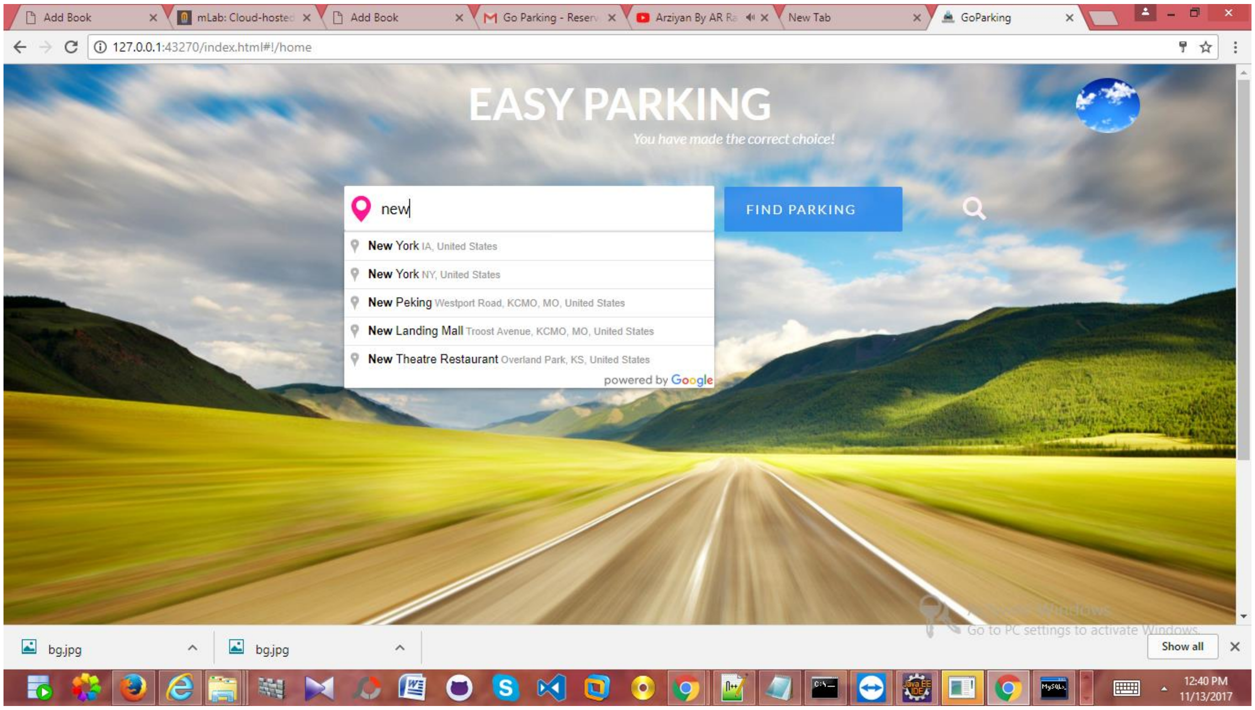
PHONE :8166998835

RAJU

Reservation Details

No Reservations. Please make a reservation by clicking on Home

➢ Location Search-



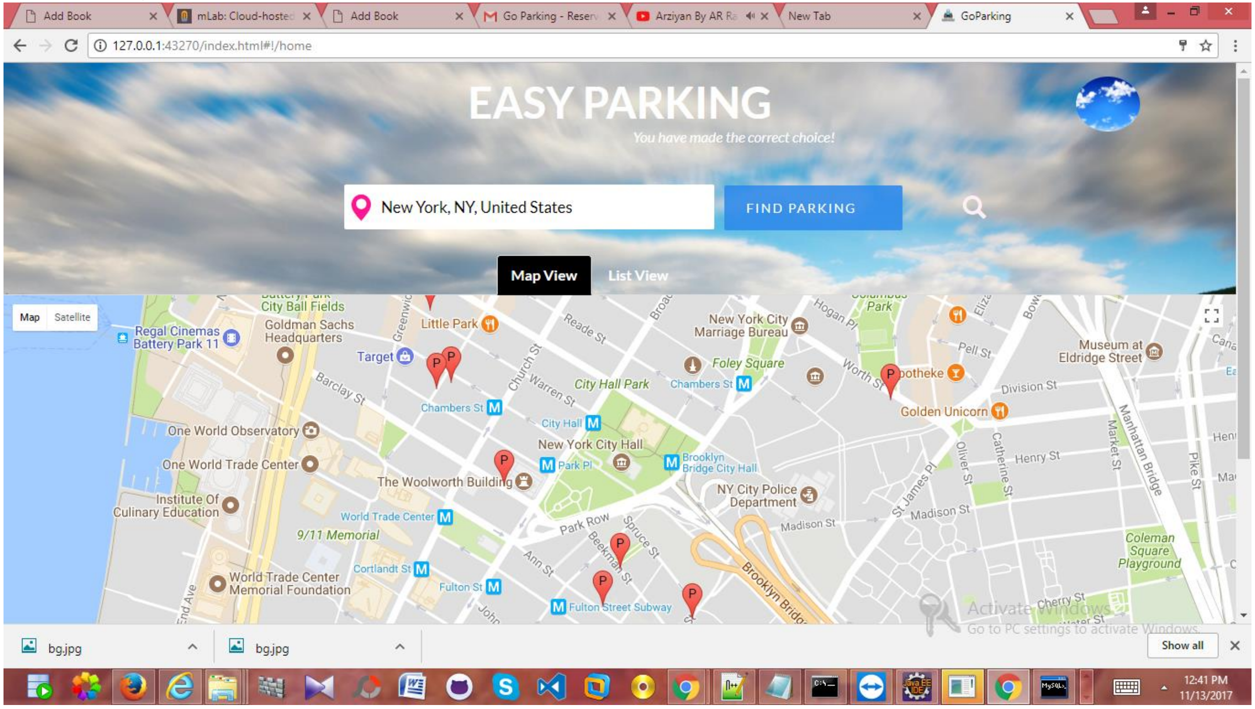
127.0.0.1:43270/index.html#!/home

new

- New York IA, United States
- New York NY, United States
- New Peking Westport Road, KCMO, MO, United States
- New Landing Mall Troost Avenue, KCMO, MO, United States
- New Theatre Restaurant Overland Park, KS, United States

powered by Google

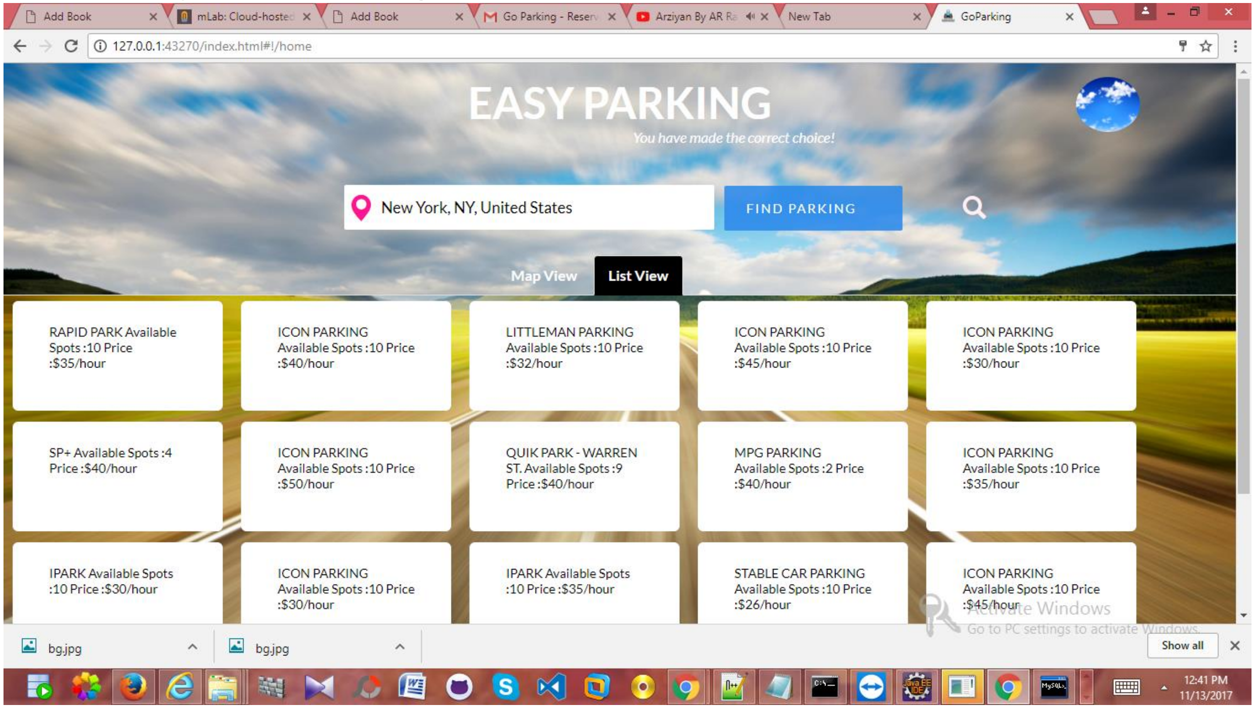
➢ Map View -After Location Search



127.0.0.1:43270/index.html#!/home

New York, NY, United States

- **Nearby Available Parking-**



EASY PARKING

You have made the correct choice!

New York, NY, United States

FIND PARKING

Map View | List View

RAPID PARK Available Spots :10 Price :$35/hour

ICON PARKING Available Spots :10 Price :$40/hour

LITTLEMAN PARKING Available Spots :10 Price :$32/hour

ICON PARKING Available Spots :10 Price :$45/hour

ICON PARKING Available Spots :10 Price :$30/hour

SP+ Available Spots :4 Price :$40/hour

ICON PARKING Available Spots :10 Price :$50/hour

QUIK PARK - WARREN ST. Available Spots :9 Price :$40/hour

MPG PARKING Available Spots :2 Price :$40/hour

ICON PARKING Available Spots :10 Price :$35/hour

IPARK Available Spots :10 Price :$30/hour

ICON PARKING Available Spots :10 Price :$30/hour

IPARK Available Spots :10 Price :$35/hour

STABLE CAR PARKING Available Spots :10 Price :$26/hour

ICON PARKING Available Spots :10 Price :$45/hour

- **Accomplished (Features and Functionalities)**
  After this phase of the project we were able to accomplish Basic UI and functionalities of our application using HTML and CSS. We were successful in making Home Page, Login page, Registration pages and relating all these so that they can interact with each other in a sequential order. Once you sign in it redirects you to the main page where you can find the available parking and its availability and look for the parking spots using the cloud API. This is what all we have accomplished during this phase of project. There are two views of the project map view and list view. Users can select any one whichever he is comfortable with.

- **Tools used-:**

Mongo DB, MEAN framework, Node js, Angular js, Express js, Cloud API, REST API

- **Data used-:**
  "Parkwhiz.com" because we are using the API of parkwhiz.com which provides us the details of the parking location listed there and its availability.
  Integration accomplished/working Registration, Login, Profile creation, Delete Account, Search nearby parking locations its availability using API, rate of parking stations, map view, list view of parking stations

- **To-do list-:**
  - Designing of the parking slot in the locations and user can reserve place according to their choice.
  - Reservation details will come in their email id's using which they have registered. Once the user is done with registration, the link "Confirm Payment" (for payment confirmation) will also be received by the user in their registered email by using some cloud as a service to make the payment more secure.
  - Options of adding, deleting and updating payment will be there which will be using Mongo db.

- Also implementation of Cloud services to make the payment more secure.
  These all functionalities will be integrated when the user clicks on the location in map or list view.

  This is what we were finally able to accomplish as per the deadline of mid progress report.