Car Pooling System: Carpooling (also known as car-sharing, ride-sharing, lift-sharing and covoiturage), is the sharing of car journeys so that more than one person travels in a car.

By having more people using one vehicle, carpooling reduces each person's travel costs such as fuel costs, tolls, and the stress of driving. Carpooling is also seen as a more environmentally friendly and sustainable way to travel as sharing journeys reduces carbon emissions, traffic congestion on the roads, and the need for parking spaces. Authorities often encourage carpooling, especially during high pollution periods and high fuel prices.

How it Works: Drivers and passengers offer and search for journeys through one of the several mediums available. After finding a match they contact each other to arrange any details for the journey(s). Costs, meeting points and other details like space for luggage are discussed and agreed on. They then meet and carry out their shared car journey(s) as planned.

Features of Car Pooling System: Carpooling is commonly implemented for commuting but is also popular for longer one-off journeys, with the formality and regularity of arrangements varying between schemes and journeys.

Carpooling is not always arranged for the whole length of a journey. Especially on long journeys, it is common for passengers to only join for parts of the journey, and give a contribution based on the distance that they travel. This gives carpooling extra flexibility, and enables more people to share journeys and save money.

The system is also providing easiest way where any user has to directly verifying a routes and location by providing the services of gurney. Where they has to specify their route, date as well as role as like working as a driver or any passenger.

Here, you can see the system is providing the result within search criteria regarding the user's needs. Where user working as like passenger or driver as to specify the routes within under of 10km, journey date as well as filter type then the system is enabling to providing a available result.

Every system has a different kind of module to perform the operation or use the services providing by the system. Here, system is providing mainly three modules where every module has their own right to accessing their roles.

1. Admin
2. Passenger/Driver
3. Visitor

Admin: Admin module is working as like back born of the system, which has a right to manage or handle to whole application where system is control under kind of Admin which one is a hart of the system.

All the information regarding the car pooling over the system manage by the admin that enable to managing and show or providing all information and gurney details or routes to the customer.
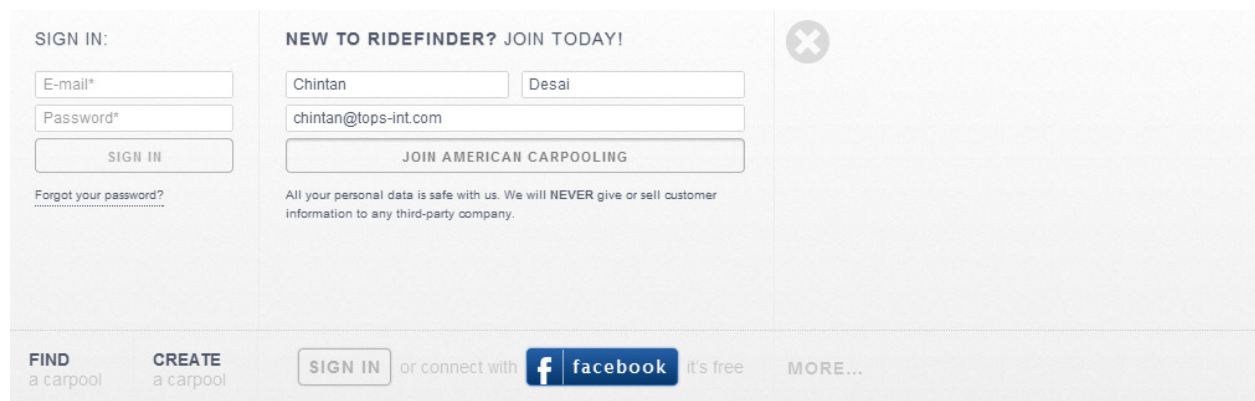

Whenever any passenger or driver specifying their requirement for finding the available journey details within routes then admin can manage whole details regarding them and enable to providing a search result which one manage by the admin where they can manage whole database within all valid details.

Visitors: Every system providing each process for every users who has enable to accessing the system parts where system is also restrict each process for authorize and unauthorized person. The unauthorized person is referring as like visitor who has only the right to accessing the system for getting the information regarding the services but if they have to be performing some operations and wants to do some transaction then system is restrict them as an unauthorized person and forces to register on the system.

Passenger/Driver: The passenger/driver sometime refers as an end user who has to right to performing their operation regarding their requirement. Every system is made for the customer where customer can easily search and use the entire services providing the system. Here, as per system security, system is also providing an authentication mode where if any user has to perform some operation then they have to register on the system for accessing their right. So, the system is enabling to providing a registration way where user has to post their voluble information to access their rights.

Here the role of user working as a passenger and driver, they has to specify their journey route and their specific date then system is providing multiple results regarding their search criteria after that they all passengers and driver wants to decide or discus regarding rant, fuel and contribute all expenses within each other.

But system providing some rules for performing this kind operation, the way is all about registration and login process who mansion that all users are working as follow the rules of admin.
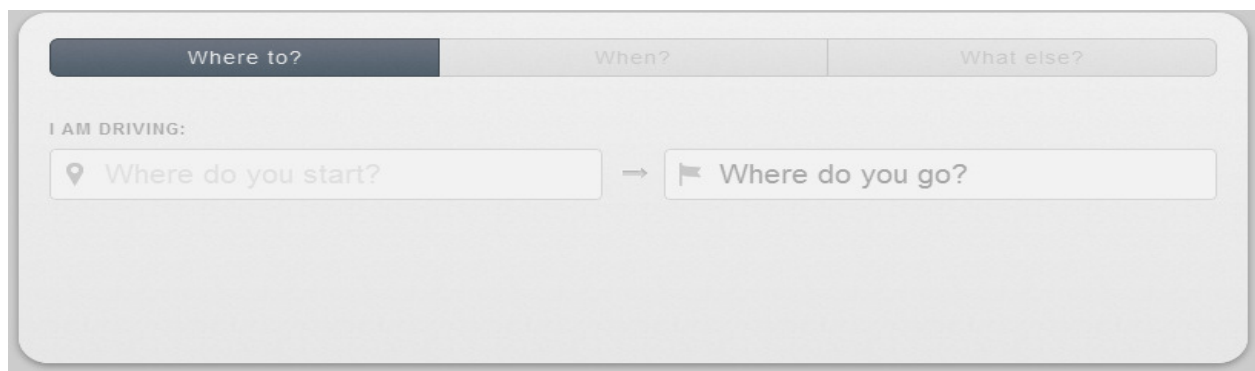

After the login particular user getting whole right as an authorized person and make their own journey with using system services.
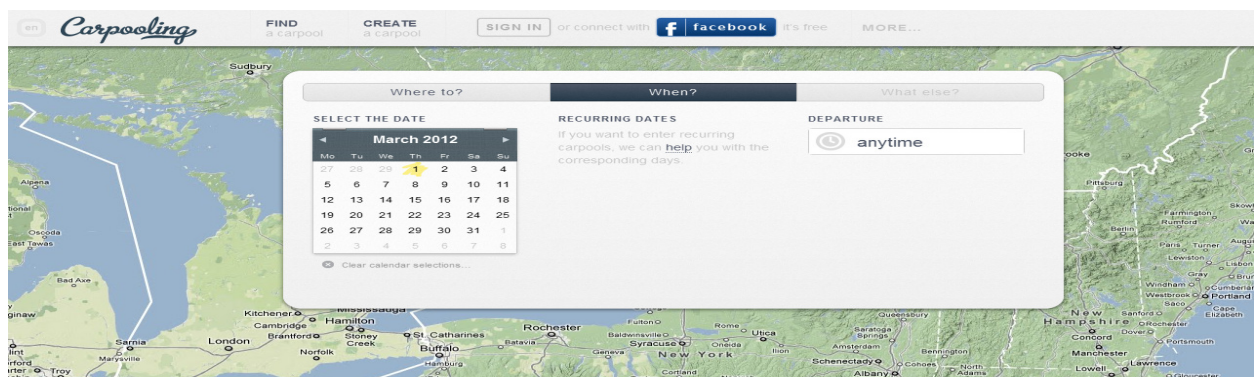
Create Car Pool: Create car pool is an easiest way providing by the system where any passenger or driver can easily create their own journey to specifying their roles.

When any user wants be create their own car pool journey then first of all they has to be specifying the working role on which role they has to work as a passenger or driver.

After that they need to be specifying the driving area involving the starting location of driving to where they wants to go which one is working as like Arrival and Departure Location and time. After the competition of the specifying the area user has to be specify the date on which date they has to be journey.

The system is also enabling to providing the advance feature for the user where the user has to specifying the total passenger drive over the journey as well as also the system show the specification of how much passenger contribute over the journey.

IF any passenger or driver wants leave any notes for all passengers then system also providing the "Leave a Note" feature where information involves the email id, mobile number as well as address of the particular person.
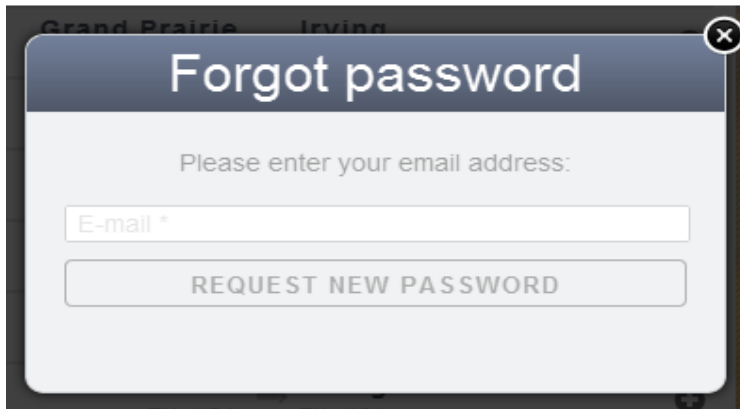
When any passenger/ driver post or publish their carpool requirements them system is enabling to providing the whole details within a routes specification under kind of the authorized person.

Password Recovery: The functionality of finding a password by the user referring as likes "Password Recovery". Which o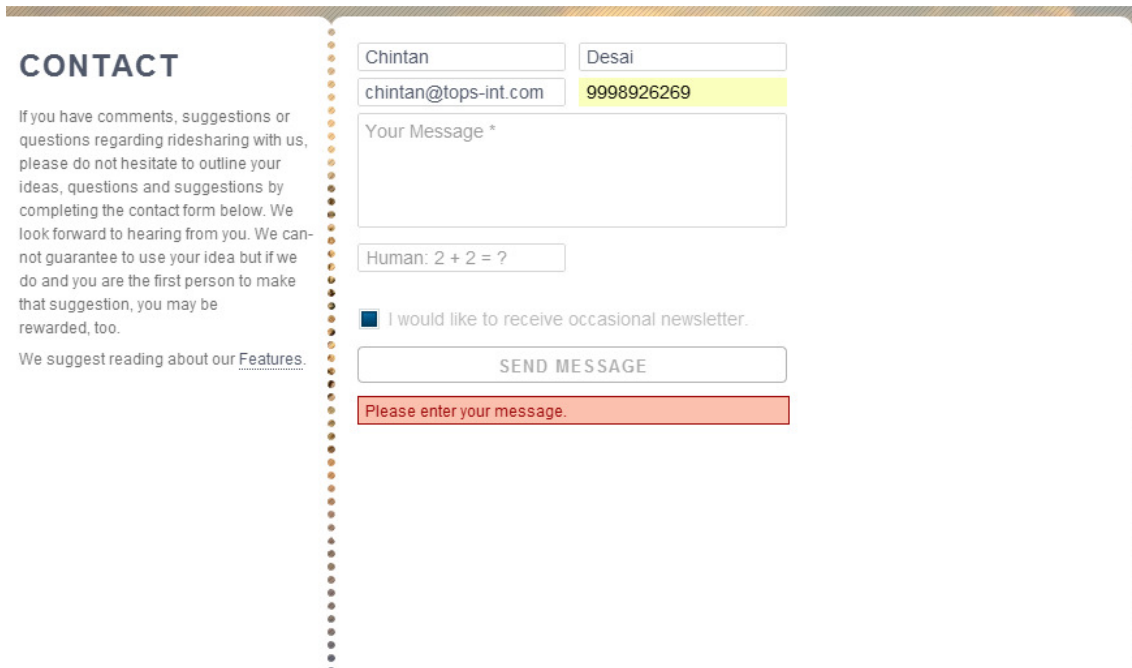ne is the process of finding the password if any customer would be lost their password. That time customer has to pass only their email id where system is enabling to providing the customer password on their email account. So, the system is providing a secure way to find out password and providing to the customer.

Contact Us: Contact us is the way of solving some conclusion of the every user and if any user has to contact with the system then all detail are available providing by the system. Where user has to only just put down their information in the enquiry form within appropriate details then system is able to give the feedback to the user.

Project Execution and TimeLine

Analysis Phase:

- Success Criteria
- System Requirement Specification
- Data Dictionary
- High Level Requirements
- Flow Chart
- ER Diagrams (optional)
- Data Flow Diagrams (optional)
- Activity Diagrams (Optional)

Design Phase:

- Main Screen
- Application Layout

Development Phase:

- Modules 1: Admin Module – Role of Admin
    - Manage Passenger/Driver(View/Block Client)
    - Maintain Search Result
    - Manage Category regarding project (view/Edit)
    - Maintain Journey Details
    - Manage Route Specification

- Module 2: Passenger/Driver
    - Manage own profile (view/Edit)
    - Search available journey
    - Recover their password
    - Specifying their routes
    - Manage contribution transactions

Testing Phase:

- Functionality Testing
- End To End Testing

Deployment Phase:

- Domain Registration
- Server Specification
- Hosting Size Specification
- Project upload (local or live)

--------------------**END**-----------------