

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.

The screenshot shows the Carpooling website interface. At the top, there's a navigation bar with the Carpooling logo, a language selector (en), and buttons for 'FIND a carpool', 'CREATE a carpool', 'SIGN IN', and a Facebook login option. Below the navigation bar, there's a search section with a 'ROUTE' field containing a location pin icon and a 'SELECT A DATE' section with a calendar for March 2012. The calendar shows the 1st of March is selected. Below the calendar is a 'FILTER' section with icons for a person and a car. The main content area displays a list of carpooling opportunities. Each entry includes a date and time (e.g., 04/02/2012 01:00 PM), a route from 'Grand Prairie TX, USA' to 'Irving TX, USA', and a plus icon for more details. The background of the website is a scenic image of a sunset over a body of water.

DATE	TIME	FROM	TO	ACTION
04/02/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/02/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/03/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/03/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/04/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/04/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/05/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/05/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/06/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/06/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/09/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+
04/09/2012	01:00 PM	Grand Prairie TX, USA	Irving TX, USA	+

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.

The screenshot displays a web application for finding carpooling routes. On the left, there are input fields for 'ROUTE' (with a location pin icon) and a date selection calendar for 'March 2012'. The calendar shows the 1st of March is selected. Below the calendar is a 'FILTER' section with icons for a person (passenger) and a car (driver). At the bottom left are social media sharing icons (Facebook, Twitter, etc.). The main area on the right is a table listing available routes. Each row includes a person icon, a date and time, the route 'Grand Prairie → Irving', the location 'TX, USA', and a plus icon for more details.

Icon	Date & Time	Route	Location	Action
Person	04/02/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/02/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/03/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/03/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/04/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/04/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/05/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/05/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/06/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/06/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/09/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+
Person	04/09/2012 01:00 PM	Grand Prairie → Irving	TX, USA	+


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.

	04/02/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	
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	04/05/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	
	04/06/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	
	04/06/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	
	04/09/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	

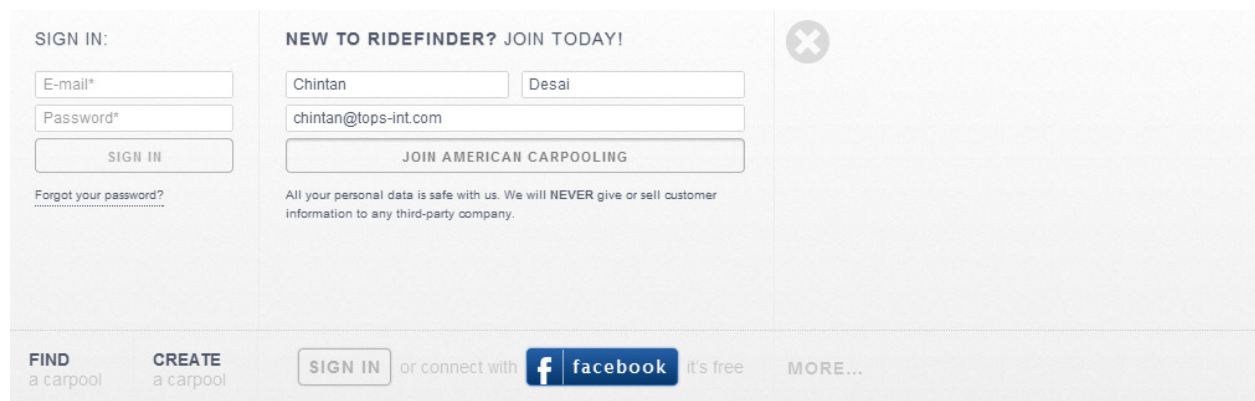
Whenever any passenger or driver specifying their requirement for finding the available journey details within routes then admin can manage whole details regarding them and enable to providing a search result which one manage by the admin where they can manage whole database within all valid details.

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 discuss regarding rent, 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 mention that all users are working as follow the rules of admin.



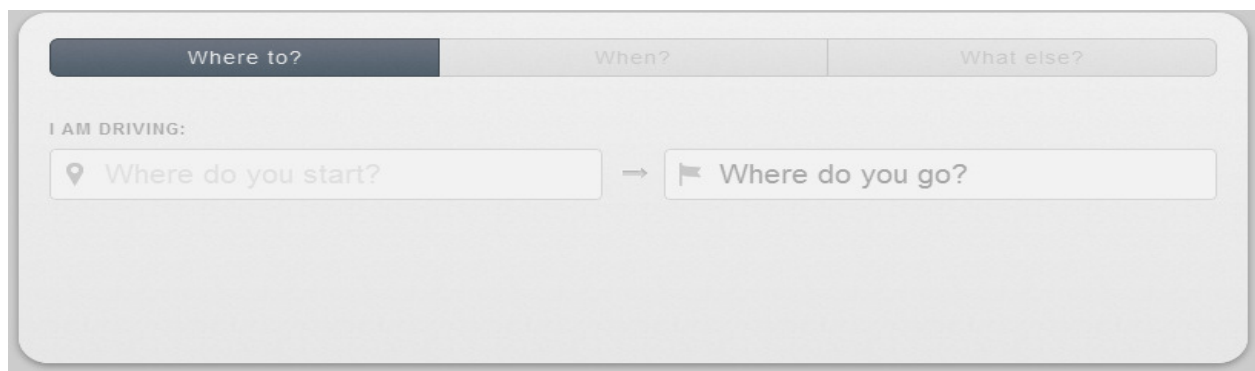
The screenshot displays the 'Ridefinder' login and registration page. It is divided into two main sections: 'SIGN IN:' on the left and 'NEW TO RIDEFINDER? JOIN TODAY!' on the right. The 'SIGN IN:' section includes input fields for 'E-mail*' and 'Password*', a 'SIGN IN' button, and a link for 'Forgot your password?'. The 'NEW TO RIDEFINDER? JOIN TODAY!' section includes input fields for 'First Name' (containing 'Chintan') and 'Last Name' (containing 'Desai'), an email field (containing 'chintan@tops-int.com'), a 'JOIN AMERICAN CARPOOLING' button, and a privacy policy statement: 'All your personal data is safe with us. We will NEVER give or sell customer information to any third-party company.' At the bottom, there are links for 'FIND a carpool' and 'CREATE a carpool', a 'SIGN IN' button, a social media link 'or connect with facebook' (with a Facebook logo), the text 'it's free', and a 'MORE...' link. A close button (X) is visible in the top right corner of the form area.

After the login particular user getting whole right as an authorized person and make their own journey with using system services.

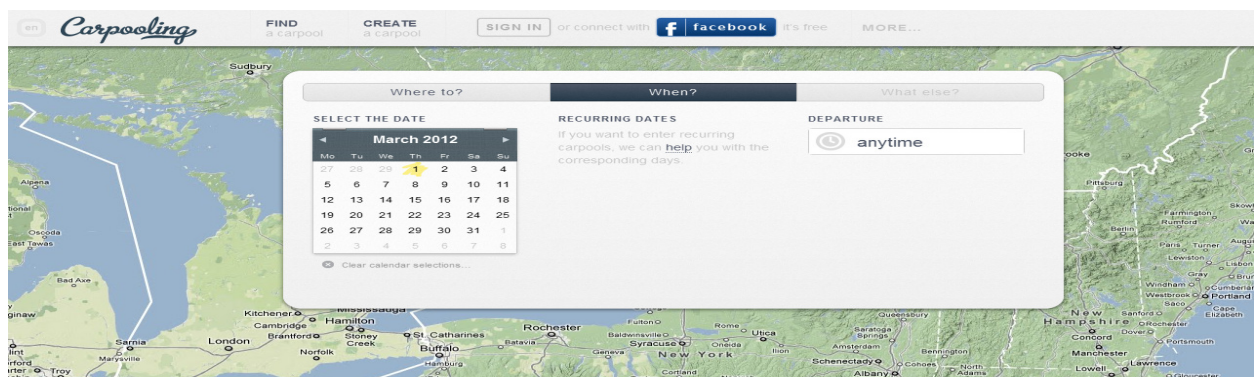
Create Car Pool: Create car pool is an easiest way providing by the system where any passenger or driver can easily create their own journey to specifying their roles.



When any user wants to create their own car pool journey then first of all they have to specify the working role on which role they have 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 want to go which one is working as like Arrival and Departure Location and time. After the completion of specifying the area user has to specify the date on which date they have 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.

Where to? When? What else?

LEAVE A NOTE...

NUMBER OF AVAILABLE SEATS
3

HOW MUCH DO YOU WANT EACH PASSENGER TO CONTRIBUTE?
15 USD

It is not necessary to specify contact information. Interested persons will be handed the phone numbers and email address from your profile.

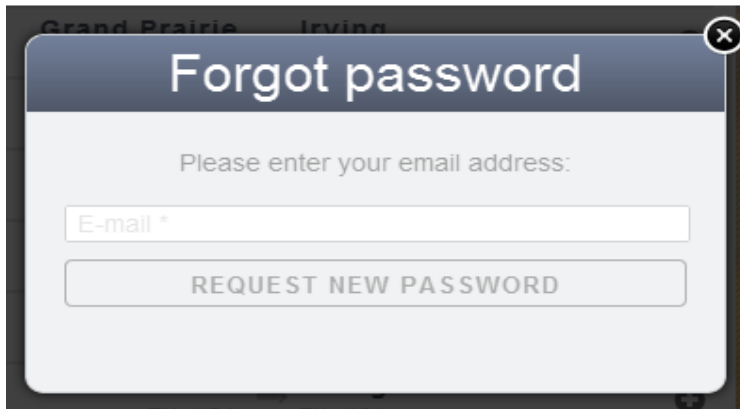
Estimated total costs 44 USD*.
Suggested 15 USD per passenger.
* exclusive tolls and ferry tickets

Publish my carpool

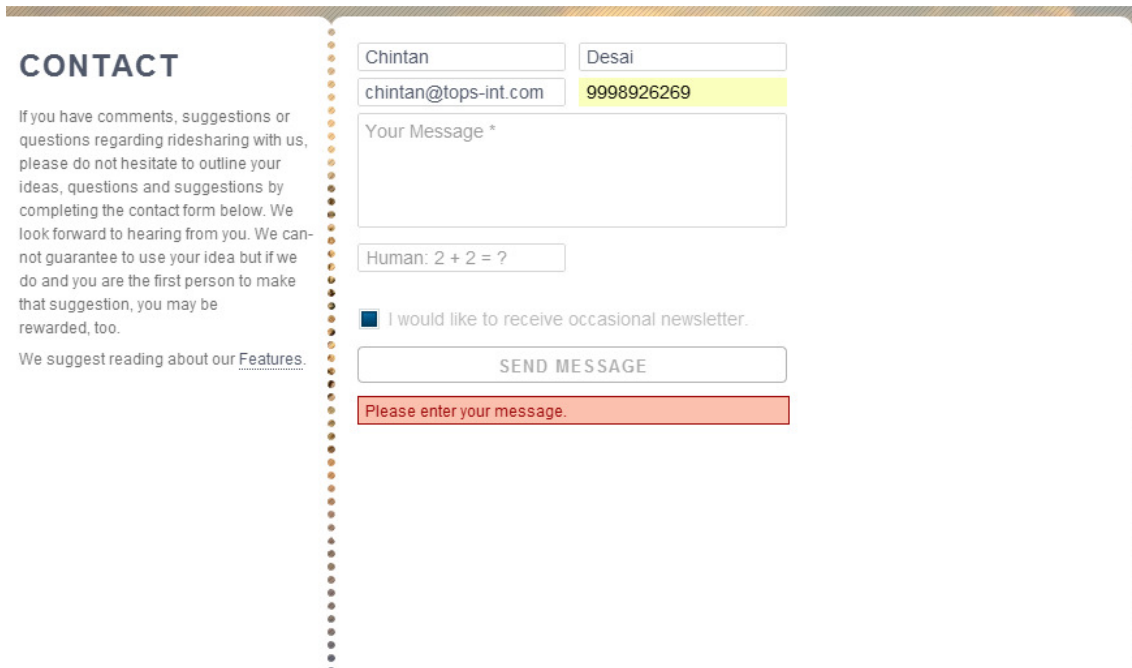
When any passenger/ driver post or publish their carpool requirements them system is enabling to providing the whole details within a routes specification under kind of the authorized person.

	04/02/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	
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	04/06/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	
	04/06/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	
	04/09/2012 01:00 PM	Grand Prairie TX, USA	→	Irving TX, USA	

Password Recovery: The functionality of finding a password by the user referring as likes “Password Recovery”. Which one 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
 - o Manage Passenger/Driver(View/Block Client)
 - o Maintain Search Result
 - o Manage Category regarding project (view/Edit)
 - o Maintain Journey Details
 - o Manage Route Specification
- Module 2: Passenger/Driver
 - o Manage own profile (view/Edit)
 - o Search available journey
 - o Recover their password
 - o Specifying their routes
 - o 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)

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