# **VEHICLE POOLING SYSTEM**

The application we propose is Vehicle Pooling System among the employees. People working in the same company who share their routes can carpool with themselves thus reducing carbon footprint. We target on the employees working within an organization to use this system. The users have to register with the system to be able to access the services. Every user can access the system in their web browsers and in the form of a mobile application (Android & IOS) and will be available only for the respective employees. I.e. Employees can register and login only with their organization provided mail ID. The system will allow the registered user to share a ride specifying his or her routes, timings and preferred gender. Other registered users can search for their routes and avail a ride if all the criteria matches. A message notification will be sent to both the involved parties if a matching occurs prior to the start of the ride. The offeror can decline the ride offer any time before an hour of the start of ride. Whereas the offeree can cancel the ride with an offeror before 30 minutes of the start of the ride. Mail and SMS notification will be sent to both of them. As a safety measure an integrated map feature and sharing it to emergency contacts will be available for the users as they take the ride. The users can view the ride history and generate reports. A graphical representation of no. of rides offered, no. of rides taken, frequency of rides over a time period, carbon footprint comparison and a yearly, monthly & weekly overview. The drop location is only to office location when the pickup is outside office location. Likewise the pickup location can be only office location when the drop is to any other place. User’s home location will be retrieved from the Employee database automatically. A feature to modify it at booking ride is provided. This is to ensure that this system can be used only for commuting to office. This system has Reminder facility where reminders will be sent out to employees to offer or book rides 30 minutes earlier to their usual time when the preferences are set. The above mentioned features are the primary features and the requirements of the system to be developed.