**AJAI ANIL**

**ILP BATCH 4**

**CAB SERVICE SYSTEM**

**1 Introduction**  
The **purpose** of this document is to specify the requirements for the initial version of the  
CAB SERVICE SYSTEM. The aim is to get a simple version of the system working to evalu-  
ate the system design and performance aspects.

This requirements specification is based on the specification provided by the CAB Company. Together with the company, several phases are defined for with the project should bedivided into. The phases are:

1. **Initial phase** - This initial phase has the aim of evaluating architecture and functionality.  
2. **Basic system phase** - When this phase is done, an operational system is available, with  
limited functionality. This system is put in real use to evaluate performance and function.  
User interfaces are an important part of this step.  
3. **Complete system phase** - The last phase develops the rest of the system. At the end of  
the phase, the complete system is delivered.  
From the original specification used in the contract bidding, a new requirement specifica-  
tion is developed. This document contains the first version of the new specification.

**Project Scope**

This project’s aim is to automate the system, calculating the fare, selecting appropriate route, booking the cab, collecting all necessary information of the client and then serve the client. The data used by the system is stored in a database that will be the center of all information held clients and employees and the base for the remainder of the process after the initial application has been made. This enables things to be simplified and considerably quickened, making the jobs of the people involved easier. It supports the current process but centralizes it and makes it possible for decisions to be made earlier and easier way.

1. **User Modules**

* **Customer**-Should Have basic permissions in the ticket booking system.Customers Should be able to choose a ride by entering the desrtination and pick up locationand make necessary payments.
* **Admin**-Has visibility to all feature.He basically manages everything such as adding new routes,approves request to add new cab drivers.
* **Driver**-He/she should be able to login to the driver account and see request for ride from the customers/passengrsin a dashboard .The driver Should be able to see the location of the customer/passenger.

2. **Requirements**

**A. Functional Requirements**

**Registration**:

**a) Customer**

The user is required to be registered to the system inorder to book ride.The customer can Register to the system by providing the following details/Fields.

* **FULL NAME**[maximum 20 Characters].
* **EMAIL** should be in a Valid [Format[abc@gmail.com](mailto:Format[abc@gmail.com)] and email validation should be provided.
* **CONTACT NO**: maximum of 10 character + country code.
* **PASSWORD**: [required][minlength(6) include special Characters, Uppercase & Lower Case & Number]
* **CONFIRM PASSWORD**:Re-enter the password you created in this input field and the system will check whether it matches with the value in the PASSWORD field.

After Registration the user will land on the login page.

**b) Driver**

In the register page itself there should an option to create a driver account. The driver can register using the following details.

* **FULL NAME**[maximum 20 Characters].
* **EMAIL** should be in a Valid [Format[abc@gmail.com](mailto:Format[abc@gmail.com)] and email validation should be provided.
* **CONTACT NO**: maximum of 10 character + country code.
* **PASSWORD**: [required][minlength(6) include special Characters, Uppercase & Lower Case & Number]
* **CONFIRM PASSWORD**:Re-enter the password you created in this input field and the system will check whether it matches with the value in the PASSWORD field.
* **Location**:The option to enter the driver’s prefereble location.
* **Do have a Car**:Checkbox to select either yes or no.

**Login**:

* The passenger/driver can log into his account using a **valid id** and **password**.There is a Section for Forgot Password that will help the customer to create new password .If the email or password is invalid show an error message saying that you have entered wrong userID or Password.
* The system should allow the ADMINISTRATOR to login to the system with an email and a password.
* The system should the allow the the CAB DRIVER to login to the system with the registered email and password.

**Logout:**

**T**he system should allow the user to logout of the website/system.

**HomePage:**

**A) Customer**

* Book by **RIDE BUTTON:** When the user clicks on this button it will direct to the page where the user can select the pickup place and the destination place.
* **Search box:** The user can use the search feature to search for destinations.
* **Booking:** After selecting the destination select the pick-up point. There should be this feature that shows
  + - * + Total distance in kilometers.
        + Estimated Fare in rupees.
        + Average Time Taken.
        + Details of the Cab such as Model(sedan/SUV), License plate Number.

After the user will land on the payment page.

* **Live Location:** The Current location of the user should be available on the homepage. Integration with google maps. So that the customer can know about the neighborhood.
* **User Profile:** The system should allow the user to view the details recorded on another page and the facility to update the profile and should have the facility to add profile picture. Details on the profile page
  + - Name
    - Email id
    - Contact No
    - Profile Picture

**B) Driver**

In the Driver- Homepage there must be an option to see all the booking request. He/she can either Accept or Decline the request.

* **Driver Profile:** The system should allow the user to view the details, including the cab details recorded on another page and provide the facility to update the profile. Details required.
  + - Name
    - Email id
    - Contact No
    - Profile Picture
* In the Driver Profile itself there should be an option for providing the following details.
  + **License no**: [number][required].
  + **License document:** [File upload]. The option to upload the original license as document.
  + **CAB REGISTER NO**: [number][required]
  + **CAB RC BOOK**: [File upload]. The option to upload the original RC Book as Document.

A Driver's account is verified by admin only if the driver provides the details above.

* **Live Location:** The Current location of the user should be available on the homepage. Integration with google maps. This will help the driver to know about the exact location of the customer.

**c)ADMIN**

* There should be an option to get all cab details.
* Admin should be able to see all the bookings sorted by date and time.
* Admin should be able to see all the routes available.
* He should be able to update or add new routes to the system.
* **Drivers account verification:** The account verification is done by the admin himself. So, there should be an option to get requests from drivers for verification and the option to see all these requests on a single page and the admin should be able to response as either “Approved” or “Denied”.

**Payment**:

The user may choose among the available payment options including direct cash payment. If the user chooses online payment the site connects the with the bank API and redirects to the payment gateway.Payment options available.

* Credit and Debit Card payment.

details to be entered inorder to pay by card-Card Number,Expiry date,cvv,card holder name.

* Upi payment(Google pay,phone pay,amazon pay).
* Cash Payment.

**Generating Invoice**:

After selecting the cab a token has to be generated with a unique identifer to confirm the booking and will be available in the booking page.Also Mention if the ride is prepaid or not in invoice.Details required in the invoice.

* Booking ID.
* Name of the User.
* Pick-up place.
* Destination.
* Amount/Fare in Rupees.
* Metion if the Ride is pre-paid.
* Cab Details.

**logout**:

The passenger should be able to log out from the system after his/her needs.

**B. Non-functional Requirements**

* **Security:** 2 level authentication with captcha and picture.
* **Availability**: The Service must be available for 24\*7.
* **performance:** The average response time should be under 200 milliseconds as it gives the feeling of an instant response.