Project Specifications

Cool Cab Services

Table of Contents

1. Abstract

Cool Cab Service is aimed to become a pioneer in the vehicle rental industry by completely focusing on customer service, innovation and efficiency. All of these elements will drive the organization towards success.

When it comes to cab rental services, Cool Cab Service is the most trusted and reliable name in the travel business. To computerize, the rental service or booking service a project is proposed. Moreover, this company has a fleet of cars ranging from luxury to budget cabs. While, it needs to offer online cab hire service for corporate houses and individuals. The company offers the best of rates, which are tailor-made depending upon the facilities, availed and offer both intercity and intra-city cab facilities. All cabs have proper permits and documentation so that the clients couldn't be hassled for the lack of documents. However, this project has strategic backup system for any eventuality. Cab drivers are educated, polite, and reliable and are trained to handle acute breakdowns. The cab service includes all categories of cars from luxury to budget.

This system facilitates the rental or booking service through online, the customers must be registered. Once they become registered users of the online Cool Cab Services, they must be able to book the cabs, check availability of cabs for a given period, view their booking history etc.

2. High Level Design Specification

The project contains the following main modules.
- Registration
- Booking Service
- History
- Admin
- Search

- **Registration Module:**

  This module allows the users to register themselves. The registered users can sign in to their account and perform the activities such as booking a cab services, cancelling a service etc.

- **Booking Service Module:**

  This module allows the user to book the cab service. Before booking a cab, the customer must be able to check the availability of the cabs and timings. The timings and total number of cabs rented by the firm are uploaded by admin.

- **History Module:**

  The candidate can view the booking history. This module provides the details such as booking date, amount paid, type of cab, source and destination etc.

- **Admin Module:**

  This module allows the admin to perform admin activities. Through this module the admin can perform administrator activities such as maintaining the details of cabs, entering and maintain the details of drivers, viewing the registered customers details generating reports like number of cabs booked per day or for a given date range etc.

- **Search Module**

  This module is used to search the commonly available information on the site for both registered and unregistered users.

3. Mandatory Requirements

- **User-defined exceptions must be generated.**

The following are the sample scenarios where user-defined exceptions required. Identify the other mandatory requirements and implement them.

   a. Entering Invalid user id
   b. Entering Invalid user name and password etc.

- **Primary Key and foreign key constraints must be specified in database design.**

- **Session management must be implemented.**

Session tracking or management must be properly maintained between the pages until the user log outs the session.

4. Best Practices

The development team must follow the best practices.
1. Coding Standard

- Methods and class names must be meaningful
- Meaningful names for variables
- Meaningful names for controls. To clearly identify the controls, the controls name can start with the control name followed by their functionality name

Sample

txtCustomerName – text field which is used to enter the customer name
btSubmit – button to submit the fields entry

2. Validation for all the fields

- Missing of mandatory fields entry
- Entering numbers for name field etc.
- Identify the other required validation and implement them.

3. Layout design and arrangement of the controls must be proper in UI design

4. Title messages for each dialog and screen must be meaningful.

5. Deliverables Expected

- Project Documentation Report
- Database script file
- UI design document

6. Database Design

A partial database schema is given below. Additional tables or attributes may be added as per requirement. These database tables are samples only.

USER_DETAILS

Field	Description
Cust_Id	Customer Id
Fname	First Name
Lname	Last Name
Age	Age
Gender	Gender
Email_Id	Email ID

DRIVER_DETAILS

Field	Description
DriverID	Driver ID

Name	Name
Address	Address
PhoneNo	Phone No
DOB	Date Of Birth
DOJ	Date Of Joining
Experience	Experience
LicenceNo	LicenceNo
ImagePath	ImagePath
NoOfAccident	NoOfAccidents

ROUTE_DETAILS

Field	Description
RTID	RTID
Routed	Routed
RouteDescription	RouteDescription
Source	Source
Destination	Destination

TRIPSHEET

Field	Description
TID	Trip Id
TripSheetID	TripSheetID
AllocationID	AllocationID
VehicleID	VehicleID
RateKM	RateKM
KM	KM
TotalAmount	TotalAmount
Remark	Remark

VEHICLEALLOCATION_DETAILS

Field	Description
VehicleAllocationID	VehicleAllocationID
VehicleID	VehicleID
DriverID	DriverID
PickupDrop	PickupDrop

VEHICLE_DETAILS

Field	Description
VehicleID	VehicleID
Name	Name
VenderID	VenderID
DriverID	DriverID
VehicleType	VehicleType
RegistorNo	RegistorNo
RateKm	RateKm
Capacity	Capacity
Routed	Routed

LOGIN_DETAILS

Field	Description
User_Id	User Id
Password	Password

Project Specification

1. SCREEN DESIGN

User Login

SEARCH ROUTE DETAILS

VIEW VEHICLE ALLOCATION

	VehicleAllocationID	VehicleID	EmployeeID	DriverID	PickupDrop	RouteID	VDate
	View VehicleAlloctionDetails						
	Label						
Delete Edit	VA ID1	VEhicle ID1	EMP1	DVRID1	Pickup	Route ID1	9/30/2008 12:00:00 AM
Delete Edit	VA ID10	VEhicle ID11	EMP3	DVR ID10	Pickup	Route ID10	9/23/2008 12:00:00 AM
Delete Edit	VA ID11	VEhicle ID15	EMP8	DVR ID11	Pickup	Route ID14	9/30/2008 12:00:00 AM
Delete Edit	VA ID2	VEhicle ID2	EMP1	DVRID1	Pickup	Route ID2	9/30/2008 12:00:00 AM
Delete Edit	VA ID3	VEhicle ID1	EMP2	DVRID2	Pickup	Route ID1	9/30/2008 12:00:00 AM
Delete Edit	VA ID4	VEhicle ID1	EMP2	DVR ID7	Pickup	Route ID4	9/30/2008 12:00:00 AM
Delete Edit	VA ID5	VEhicle ID1	EMP6	DVR ID9	Pickup	Route ID1	9/30/2008 12:00:00 AM
Delete Edit	VA ID6	VEhicle ID1	EMP1	DVR ID7	Pickup	Route ID1	9/30/2008 12:00:00 AM
Delete Edit	VA ID7	VEhicle ID5	EMP5	DVRID1	Pickup	Route ID3	9/24/2008 12:00:00 AM
Delete Edit	VA ID12	VEhicle ID7	EMP73	DVR ID22	Pickup	Route ID15	10/28/2008 12:00:00 AM

1 2

Print

NEW VEHICLE ATTACHMENTS

VehicleDetails

VehicleName [   ]

Vendor ID : [Select.. ▼]

Driver ID : [Select.. ▼]

Vehicle Type : [   ]

Register No : [   ]

Rate/KM : [   ]

Capacity : [   ]

Route ID : [Select.. ▼]

Submit   Clear

VIEW BILLING TRANSACTION

View Vehicle Billing Transaction

		BID	BillNo	VehicleID	Amount	DateOfBilling	VenderID	Deduction	NetAmount
Delete	Edit	1	BillNo1	VEhicle ID1	3453	9/1/2008 12:00:00 AM	VNDRID1	23	3430
Delete	Edit	2	BillNo2	VEhicle ID1	2342	9/17/2008 12:00:00 AM	VNDRID1	232	2110
Delete	Edit	3	BillNo3	VEhicle ID2	34234535	9/13/2008 12:00:00 AM	VNDR ID6	4321	34230225
Delete	Edit	4	BillNo4	VEhicle ID1	232	9/3/2008 12:00:00 AM	VNDR ID10	323	23423
Delete	Edit	5	BillNo5	VEhicle ID1	123424	9/2/2008 12:00:00 AM	VNDR ID10	123	424
Delete	Edit	6	BillNo6	VEhicle ID4	2306	12/30/2008 12:00:00 AM	VNDR ID26	14756	12450