

THE COMMERCIAL VEHICLE BOOKING



MUHSINA

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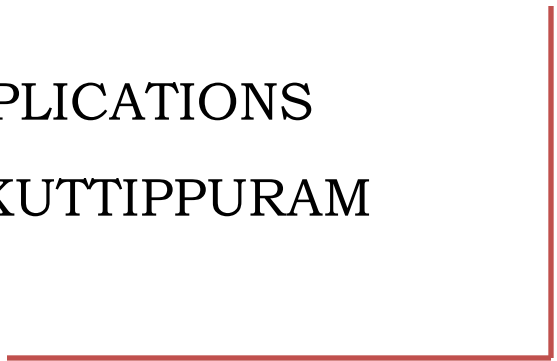


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THE COMMERCIAL VEHICLE BOOKING

- Booking commercial vehicles is inefficient and lacks price transparency.
- An online platform to simplify commercial vehicle booking.
- The service will be accessible via a website and a mobile application for user convenience.

Key Features:

- Browse and select vehicles.
- Transparent pricing for easy comparison.
- Real-time vehicle availability and scheduling.

OBJECTIVES

- **Easy Booking:** Create a simple platform for booking commercial vehicles.
- **User-Friendly:** Ensure easy navigation and access to vehicle info.
- **Wide Selection:** Maintain a large database of commercial vehicles.
- **Admin Tools:** Develop a dashboard for managing users, drivers, and vehicles.
- **Self-Service for Users/Drivers:** Allow users and drivers to manage their own profiles and bookings.

EXISTING SYSTEM

- Vehicle booking is mostly done manually through phone calls or local agents
- Limited visibility of available vehicles leads to booking delays
- No unified platform to compare vehicle types, prices, or schedules
- Manual record-keeping causes errors and inefficiencies
- Lack of transparency in pricing and availability

PROPOSED SYSTEM

- **Online Platform:** Connects businesses and individuals with commercial vehicle operators.
- **Access:** Available via a website or mobile application.
- **Key Features:** Transparent pricing, Real-time availability and scheduling, Vehicle tracking.
- **Benefits:** Offers convenience, time savings, and cost efficiency.

MOTIVATIONS

- This project aims to create a centralized online platform to fix the inefficient and non-transparent traditional process of booking commercial vehicles.
- Enhance the user experience with a user-friendly interface for easy navigation and quick access to information.
- Provide transparent pricing , real-time availability , and vehicle tracking to offer convenience, save time, and promote cost efficiency.
- A key motivation was to address difficulties in project planning and creating an attractive user interface.

FUNCTIONALITIES

- **User & Driver Management:**
- **Login & Registration:** Users and drivers can create accounts and log in.
- **Profile Management:** Users and drivers can add and update their personal details and change passwords.
- **User/Driver Access:** Users can view information about available drivers and vehicles.

FUNCTIONALITIES

- **Vehicle & Booking Management:**
 - **Vehicle Booking:** Users can search, view, select, and book commercial vehicles based on various requirements (type, capacity, location, dates).
 - **Vehicle Management (Drivers):** Drivers can add and delete their registered vehicles.
 - **Vehicle Filtering (Users):** Users can filter vehicles by type for easier access.
 - **Admin Dashboard:** An administrative interface for managing:
 - Vehicle inventory (add, edit, delete).
 - User accounts and permissions.
 - Booking records.
-

MODULE DESCRIPTION

- **User Module:** Manages user accounts and allows users to browse, book, and view commercial vehicles.
- **Driver Module:** For vehicle operators to register, log in, add or delete vehicles, and manage their bookings and profile.
- **Admin Module:** Provides a dashboard for administrators to manage users, drivers, vehicle inventory, and bookings.

DEVELOPING ENVIRONMENT

- **Framework:** Django.
- **Front End:** Templates from Colorlib and Bootstrapdash.
- **Back End:** Python with the Django framework.
- **Database:** A relational database is used to manage user, driver, vehicle, booking, and payment data.
- **Libraries:**
- **Django** Jazzmin:Improves the Django admin's look and navigation.
- **Pillow:** Processes images, enabling resizing and cropping.
- **IDE:**VS Code



SPRINT BACKLOG

Backlog tem	Status And Completi on Date	Original Estimati on in Hours	Day 1 hrs	Day 2 hrs	Day 3 hrs	Day 4 hrs	Day 5 hrs	Day 6 hrs	Day 7 hrs	Day 8 hrs	Day 9 hrs	Day 10 hrs
SPRINT1												
Design user interface/registration	10-07-25	8	2	2	0	1	2	1	1	0	0	0
Database setup	16-05-25	10	1	1	1	1	2	2	1	1	0	0
Basic backend API	24-07-25	8	1	1	1	1	1	1	1	0	1	0
SPRINT2												
Vehicle data management	30-07-25	10	2	1	1	2	1	2	1	0	0	0
Vehicle Search functionality	07-08-25	8	1	1	1	1	1	1	1	1	0	0



SPRINT BACKLOG

Backlog tem	Status And Completi on Date	Original Estimation in Hours	Day 1 hrs	Day 2 hrs	Day 3 hrs	Day 4 hrs	Day 5 hrs	Day 6 hrs	Day 7 hrs	Day 8 hrs	Day 9 hrs	Day 10 hrs
Vehicle details page	13-08-25	10	1	2	1	2	2	1	1	0	0	0
Vehicle API development	27-08-25	12	2	2	2	2	2	2	0	0	0	0
SPRINT3												
Booking form implementation	05-09-25	7	1	1	1	1	1	1	1	0	0	0
Booking api development	10-09-25	7	1	1	1	1	1	1	1	1	0	0
Booking confirmation	20-09-25	10	1	2	2	2	1	1	0	0	0	1



SPRINT BACKLOG

Backlog tem	Status And Completi on Date	Original Estimati on in Hours	Day 1 hrs	Day 2 hrs	Day 3 hrs	Day 4 hrs	Day 5 hrs	Day 6 hrs	Day 7 hrs	Day 8 hrs	Day 9 hrs	Day 10 hrs
SPRINT4												
Admin dashboorad	25-09-25	7	1	1	1	1	1	1	1	0	0	0
User &Booking Management(admin)	05-10-25	7	1	1	1	1	1	1	1	0	0	0
Responsive Design & UX Review	08-10-25	5	1	1	1	1	0	0	0	0	1	0
TOTAL		102	13	17	14	17	15	15	15	9	1	2

PRODUCT BACKLOG

ID	NAME	PRIORITY <high/medium/low>	ESTIMATE (Hours)	STATUS <Planned/In progress/Completed>
1	User Authentication & Profiles	High	23	compeleted
2	Core Database Infrastructure	High	13	compeleted
3	Basic Backend Services	High	20	compeleted
4	Initial Frontend Setup	MEDIUM	10	compeleted
5	Admin Vehicle Management (CRUD)	HIGH	10	compeleted

PRODUCT BACKLOG

ID	NAME	PRIORITY <high/medium/low >	ESTIMATE (Hours)	STATUS <Planned/In progress/Completed >
6	Vehicle Search Functionality	High	23	compeleted
7	Detailed vehicle information	High	13	compeleted
8	Vehicle data APIs	High	20	compeleted
9	Search & Listing Testing	MEDIUM	10	compeleted
10	Vehicle Booking Process	HIGH	20	compeleted

PRODUCT BACKLOG

ID	NAME	PRIORITY <high/medium/low>	ESTIMATE (Hours)	STATUS <Planned/In progress/Completed>
11	Booking Management APIs	High	23	compeleted
12	Booking Confirmation &history	High	13	compeleted
13	Admin Dashboard	MEDIUM	20	compeleted
14	Admin User & Booking Control	HIGH	10	compeleted
15	Responsive Design & UX Review	MEDIUM	10	compeleted

USER STORY

User Story ID	As a type of User	I want to <Perform some task>	So that i can <Achieve Some Goal>
1	USER	Register	Access the booking system and personalize my experience
2	USER	Login	securely access my profile and booking history
3	USER	View Profile	View users profile in application
4	ADMIN	manage user accounts (CRUD)	control system access and assist users with their profiles
5	ADMIN	manage vehicle inventory (CRUD)	(CRUD)add, update, and remove vehicles available for booking
6	ADMIN	Manage booking records	Oversees all booking and assist with modifications
7	USER	View Profile	View users profile in application

USER STORY

User Story ID	As a type of User	I want to <Perform some task>	So that i can <Achieve Some Goal>
8	USER	search for available commercial vehicles	find a suitable vehicle for my transport needs
9	USER	view detailed information about a vehicle	make an informed decision before booking
10	USER	book a commercial vehicle	reserve a specific vehicle for a defined period
11	ADMIN	view an administrative dashboard	get an overview of system activity, bookings, and users
12	ADMIN	send system-wide notifications	inform users about important updates or announcements

PROJECT PLAN

User StoryID	Task Name	Start Date	End Date	Days	Status
1	Sprint 1	16/08/2025	17/08/2025	13	completed
2		18/08/2025	19/08/2025		completed
4		20/08/2025	22/08/2025		completed
3		23/08/2025	24/08/2025		completed
1,2		25/08/2025	27/08/2025		completed
5	Sprint 2	13/09/2025	23/09/2025	14	completed
7		23/09/2025	24/09/2025		completed
8,9		24/09/2025	29/09/2025		completed

PROJECT PLAN

User StoryID	Task Name	Start Date	End Date	Days	Status
10	SPRINT 3	03/10/2025	06/10/2025	15	completed
11		07/10/2025	10/10/2025		completed
12,13		13/10/2025	20/10/2025		completed
15	SPRINT 4	28/10/2025	5/11/2025	15	completed
4,6		7/11/2025	11/11/2025		completed
14,16		08/10/2025	09/11/2025		completed

DATA FLOW DIAGRAM

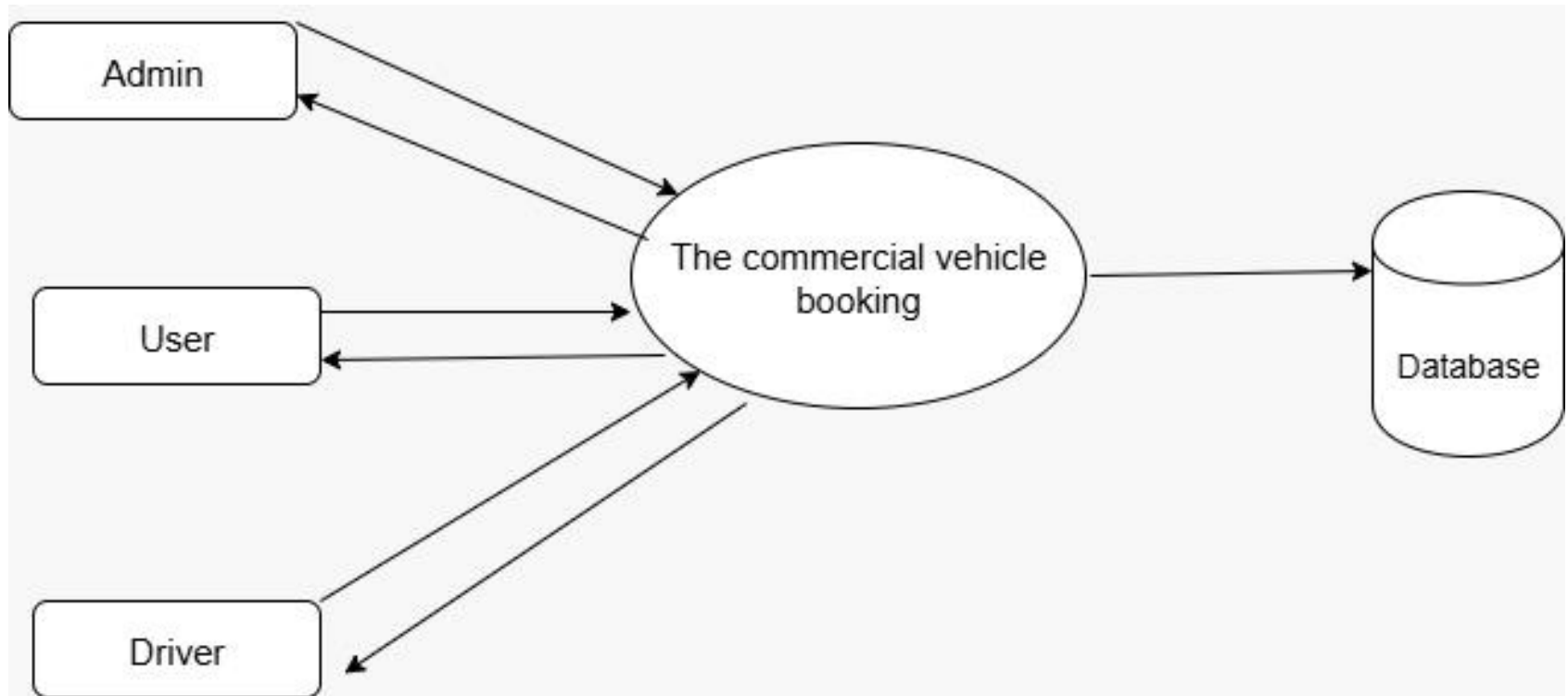
- LEVEL 0



The figure given above is for reference only. Create a figure with your data.

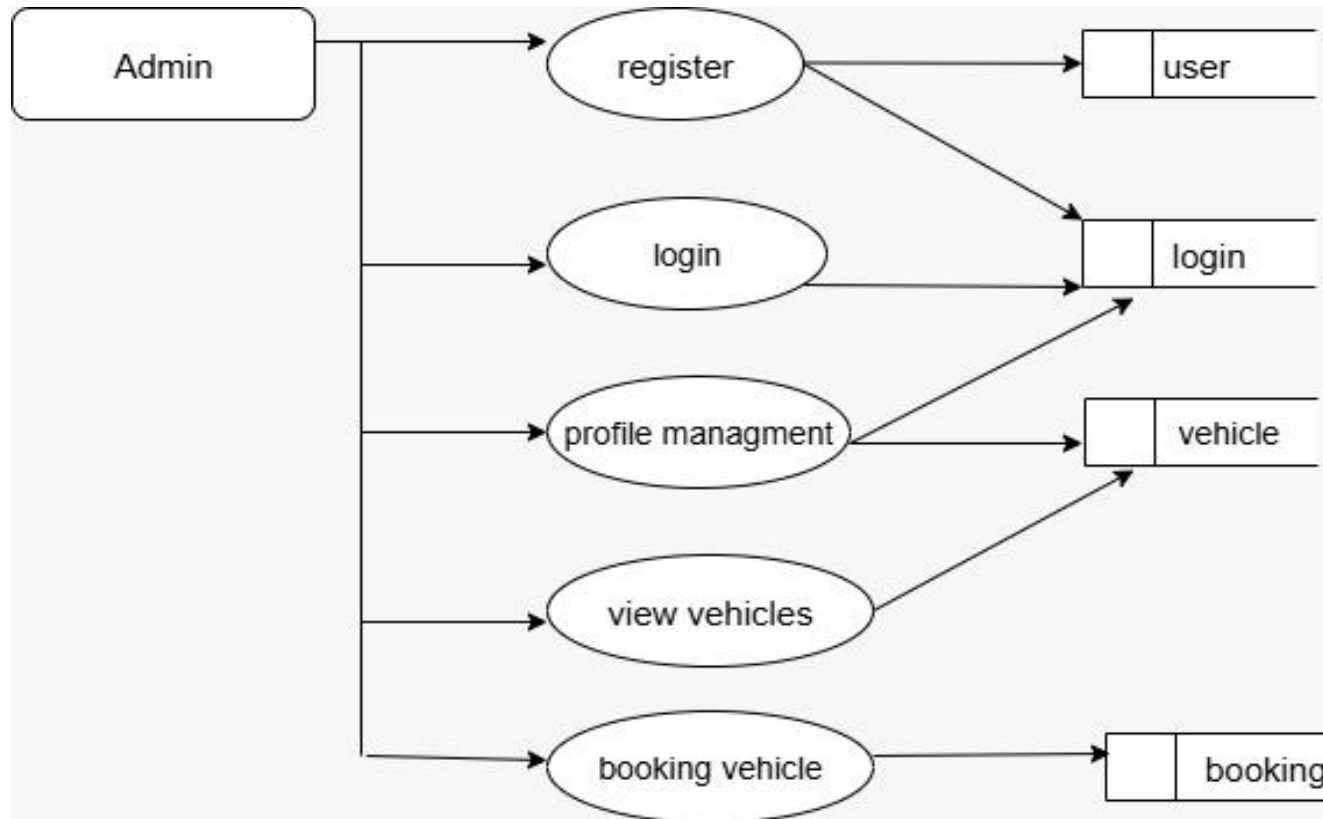
DATA FLOW DIAGRAM

- Level 1



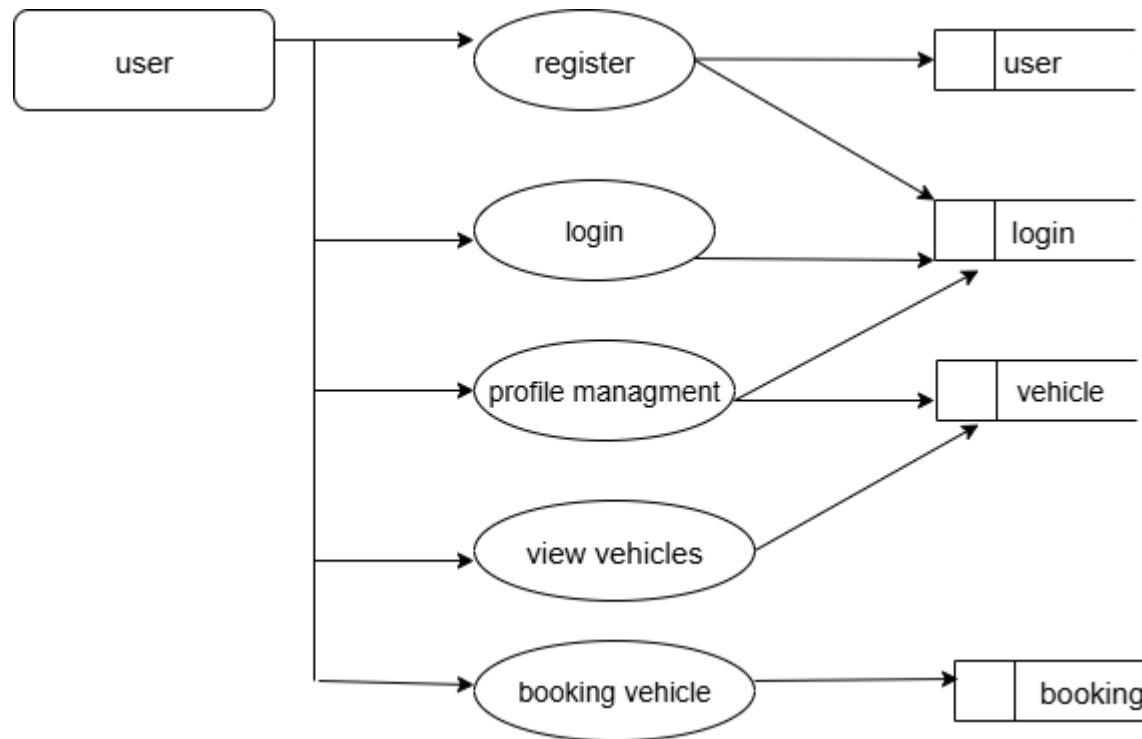
DATA FLOW DIAGRAM

- Level 1.1



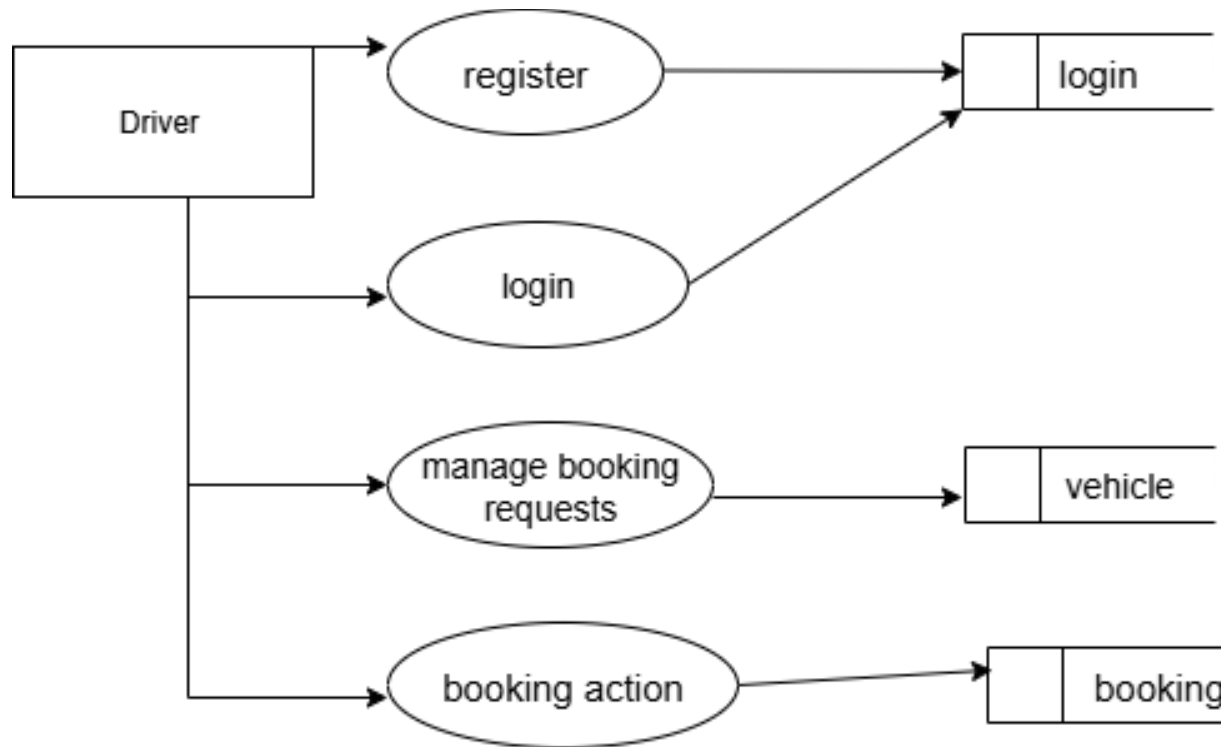
DATA FLOW DIAGRAM

- Level 1.2

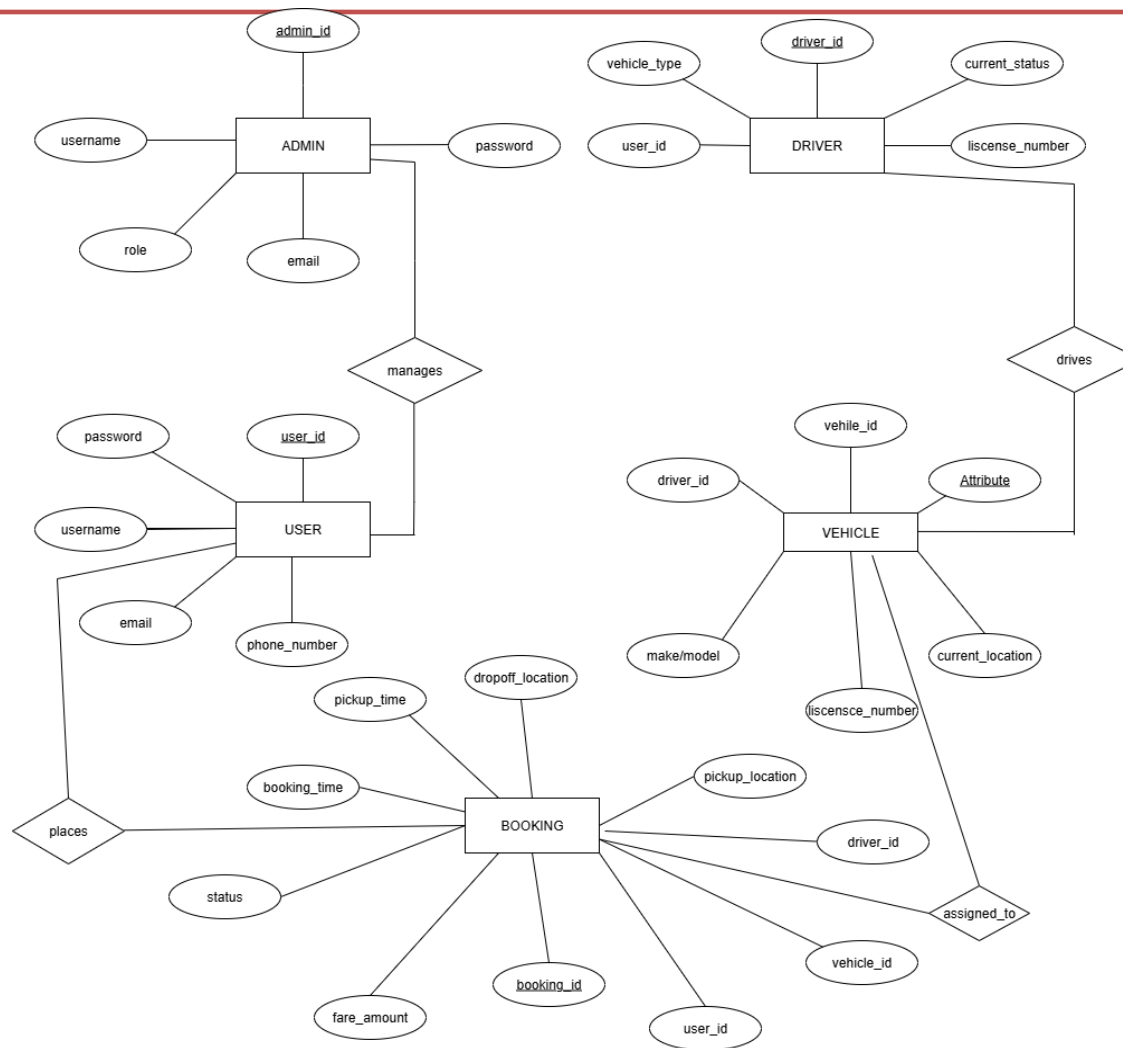


DATA FLOW DIAGRAM

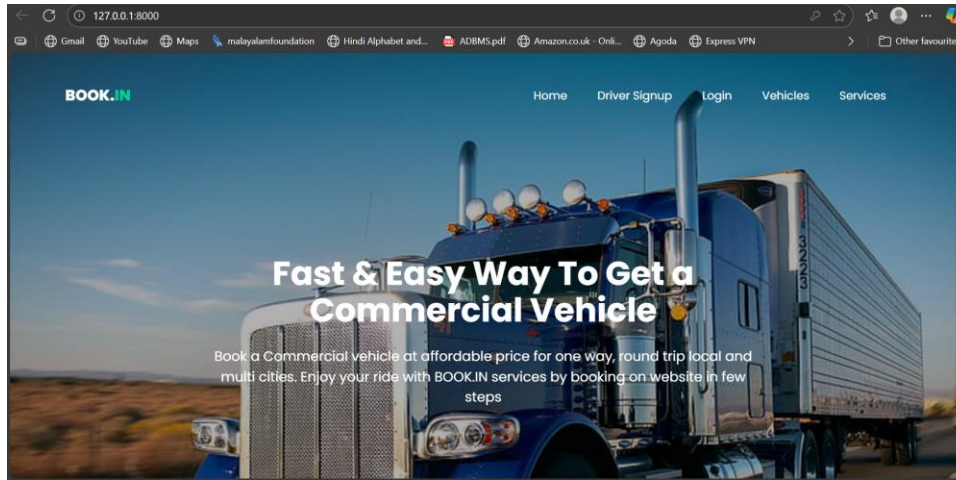
- Level 1.3



ER DIAGRAM

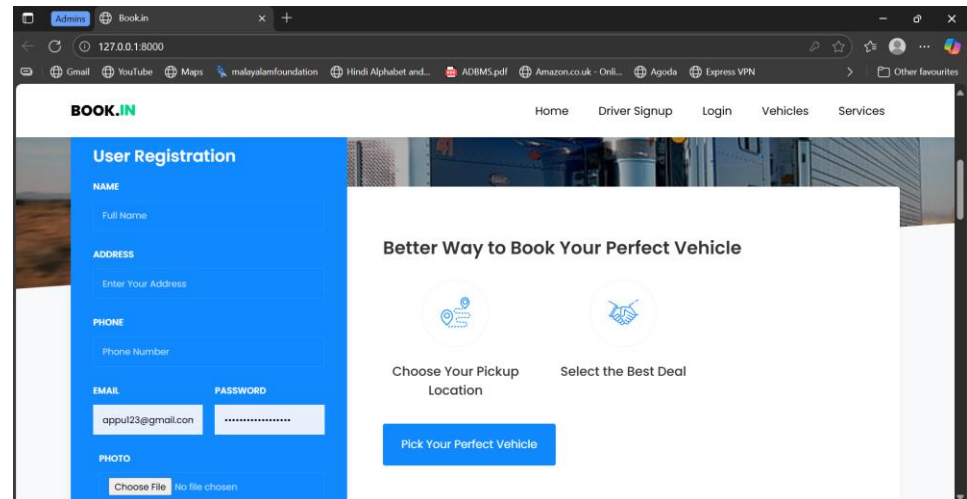


Screenshots



Home Page

user registration

A screenshot of the BOOK.IN user registration page. The page is divided into two main sections. On the left, a blue sidebar contains the "User Registration" form with fields for NAME (Full Name), ADDRESS (Enter Your Address), PHONE (Phone Number), EMAIL (appul23@gmail.com), PASSWORD (masked with dots), and PHOTO (Choose File). On the right, a white section titled "Better Way to Book Your Perfect Vehicle" features two circular icons: one for "Choose Your Pickup Location" and another for "Select the Best Deal". A blue button labeled "Pick Your Perfect Vehicle" is positioned below these options.

Screenshots

The screenshot shows the 'Driver Registration' page on the BOOK.IN website. The page has a blue header with the 'BOOK.IN' logo and navigation links: Home, Driver Signup, Login, Vehicles, and Services. The main content area is divided into two sections. On the left, there is a registration form with fields for NAME (Full Name), ADDRESS (Enter Your Address), PHONE (Phone Number), EMAIL (appu123@gmail.com), PASSWORD (masked with dots), DRIVING LICENSE (Choose File), and PHOTO (Choose File). On the right, there is a white box with a blue handshake icon and the text 'You are select the Best Partner' and 'Thanks, For choosing us'.

Driver Registration

Bookings

The screenshot shows the 'User Home' page on the BOOK.IN website. The page has a blue header with the 'BOOK.IN' logo, a search bar with the text 'Search now' and 'nayanu@gmail.com', and a user profile icon labeled 'nayanu'. The main content area is titled 'Featured Vehicles' and displays three vehicle listings. Each listing includes a photo of the vehicle, its name, registration number, and price per kilometer. Below each listing are 'Book now' and 'Details' buttons.

Vehicle Name	Registration Number	Price /km
bolero	MH 12 AB 3456	₹4000
BMW	MH 12 AB 3456	₹4000
ape auto	MH 12 AB 3456	₹3400

Source Code

❖ **Urls.py**

```
from django.urls import path
from . import views
```

```
urlpatterns = [
    path("", views.index, name='index'),
    path('detail/<int:pk>/', views.details_vehicle),
    path('vehicles', views.vehicles),
    path('driver_register/', views.driver_registration, name='driver_registration'),
    path('login', views.login, name='login'),
    path('view_license/<int:id>/', views.view_license, name='view_license'),
    path('services', views.services),
    path('user_home', views.user_home),
    path('logout/', views.logout_view, name='logout'),
    path('driver_home', views.driver_home),
    path('add_vehicle', views.add_vehicle),
    path('delete_vehicle/<int:id>/', views.delete_vehicle),
    path('filter/<int:fid>/', views.filter),
    path('drivers', views.view_drivers),
    path('search_vehicles', views.search_vehicles, name='search_vehicles'),
    path('book_vehicle/<int:vehicle_id>/', views.book_vehicle),
    path('viewbookings', views.view_booking),
    path('mybookings', views.my_booking),
    path('stats', views.view_stats),
    path('make_payment/<int:booking_id>/', views.make_payment, name='make_payment'),
    path('edit-user', views.edituser),
    path('change-password-user', views.changepassword_user),
    path('edit-driver', views.edrtdriver),
    path('change-password-driver', views.changepassword_driver),
    path('uview_drivervehicle/<int:did>/', views.view_driver_vehicles)
]
```



Source Code

❖ **models.py**

```
from django.db import models
from django.urls import path
```

```
class User(models.Model):
    name = models.CharField(max_length=100)
    email = models.EmailField(unique=True)
    password = models.CharField(max_length=100)
    image=models.ImageField(upload_to='drimg/',default='nothing')
    address=models.CharField(max_length=100,default='nothing')
    phone=models.IntegerField(default='1')
    def __str__(self):
        return self.name
```

```
class Driver(models.Model):
    name = models.CharField(max_length=100)
    email=models.CharField(max_length=50,default='nothing')
    license = models.ImageField(upload_to='license/',default='nothing')
    password =models.CharField(max_length=18,default='nothing')
    image=models.ImageField(upload_to='drimg/',default='nothing')
    address=models.CharField(max_length=100,default='nothing')
    phone=models.IntegerField(default='1')
    status=models.CharField(max_length=20,default='Not Verified')
    is_verified = models.BooleanField('Is Verified', default=False)
    def __str__(self):
        return self.name
```

```
class vehicle(models.Model):
    userid=models.ForeignKey(Driver,on_delete=models.CASCADE)
    vehicle_name = models.CharField(max_length=100)
    vehicle_reg = models.CharField(max_length=20)
    vehicle_type = models.CharField(max_length=500)
    vehicle_image = models.ImageField(upload_to="vehicles/", blank=True)
    rate=models.IntegerField(null=True)
    status=models.CharField(max_length=20,default="not booked")
```



THANK YOU