

Smart Cab Allocation System for Efficient Trip Planning

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Introduction :

The Smart Cab Allocation System I have designed to efficiently manage cab trips, optimize cab allocation, and integrate real time location data. In this system we have provided functionalities for both admin and employee roles, enabling admins to manage trips and employees to allocate cabs for their needs.

Usage :

Admin Login:

- Username: admin
- Password: p
- Admins can manage trips and view allocated cabs.

Employee Login:

- Username: employee
- Password: p
- Employees can allocate cabs by providing their current location and destination.

Allocating Cabs:

- Employees can enter their current location and destination to allocate the nearest available cab.
- The system will display the allocated cab details including the cab ID, distance, current location, and destination.

Managing Trips:

- Admins can view all trips, booked trips, and allocated cabs from the dashboard.

Screenshots :

1. Home Page

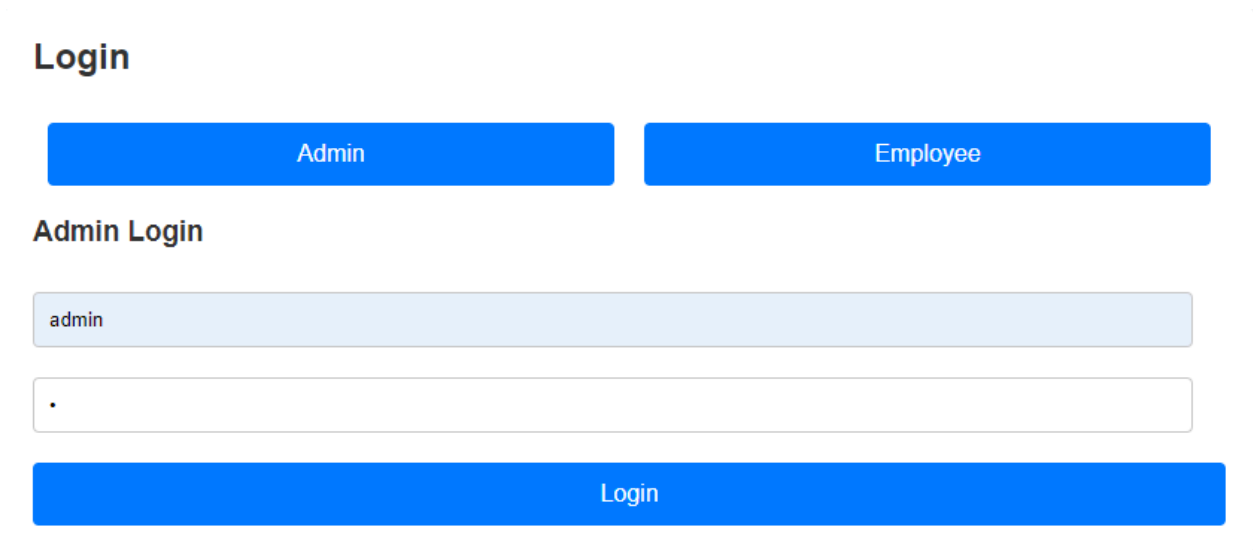
The home page where users can select their role as Admin or Employee and proceed to login.



A screenshot of a web application's home page. At the top, the word "Login" is displayed in a bold, dark font. Below it, there are two prominent blue rectangular buttons. The left button is labeled "Admin" in white text, and the right button is labeled "Employee" in white text. The buttons are set against a light gray background.

2. Admin Login

The login page for admins. Admins can enter their credentials to access the admin dashboard.



A screenshot of the admin login page. It features a "Login" header at the top. Below the header are two blue buttons: "Admin" and "Employee". Under the "Admin" button, the text "Admin Login" is visible. The form includes a light blue input field containing the text "admin", followed by a white input field with a single dot ".". At the bottom of the form is a wide blue button labeled "Login".

3. Employee Login :

The login page for employees. Employees can enter their credentials to access the employee dashboard.

Login

Admin

Employee

Employee Login

employee

.

Login

4. Admin Dashboard :

The admin dashboard where admins can manage trips and view allocated cabs.

Dashboard

Manage Trips

Show all Trips and Cabs

Show all Booked Trips

Allocated Cabs For Instant Trips

No cabs allocated yet

5. Employee Dashboard :

The employee dashboard where employees can allocate cabs by providing their current location and destination.

Employee Dashboard

Instant Cab Booking

Book Instant Cab

Book Trip

6. Booking Instant Cab :

The instant cab Booking form for employees. Employees can enter their current location and destination to allocate a cab.

Employee Dashboard

Instant Cab Booking

Book Instant Cab

7. Viewing Instant booked Cabs (Admin) :

The section in the admin dashboard that displays the list of all Instant booked Cabs with their details.

Employee Dashboard

Instant Cab Booking

Book Instant Cab

Allocated Cab ID: 1, Distance of Cab from here : 3.95 km, Current Location of Cab : Sardarpura, Current Location: AIIMS, Destination: IITJ

In admin's dashboard it's look like this.

Dashboard

Manage Trips

Show all Trips and Cabs

Show all Booked Trips

Allocated Cabs For Instant Trips

Cab ID: 1, Current Location of Cab: Sardarpura, Current Location: AIIMS, Destination: IITJ

8. Book Trip :

The page for employees to book a trip by providing the trip details such as starting location, destination, and time.

Book Trip

Book Trip

This is how to book trips :

Book Trip

Book Trip

Booked trip with Cab Number: RJ19PB002. Cabs remaining: 0

9. Show Trips :

The page for admins to view all trips. Admins can see the details of each trip.

Show Trips

Show All Trips

Search Trips

Starting Location

Destination

Time (HH:MM)

Search Trips

Show Trips

Show All Trips

Search Trips

Sardarpura

IITJ

21:00

Search Trips

From: Sardarpura, To: IITJ, Time: 21:00, Cabs remaining: 1

If we click on show all trips then we will get this :

From: Sardarpura, To: IITJ, Time: 15:00, Cabs: 1
From: AIIMS, To: IITJ, Time: 11:00, Cabs: 1
From: AIIMS, To: IITJ, Time: 14:00, Cabs: 1
From: MBM, To: IITJ, Time: 11:00, Cabs: 1
From: MBM, To: IITJ, Time: 12:00, Cabs: 1
From: MBM, To: IITJ, Time: 13:00, Cabs: 1
From: MBM, To: IITJ, Time: 14:00, Cabs: 1
From: MBM, To: IITJ, Time: 15:00, Cabs: 1
From: MBM, To: IITJ, Time: 16:00, Cabs: 1
From: MBM, To: IITJ, Time: 17:00, Cabs: 1
From: Paota, To: IITJ, Time: 11:00, Cabs: 1
From: Paota, To: IITJ, Time: 15:00, Cabs: 2
From: Paota, To: IITJ, Time: 16:00, Cabs: 2
From: Paota, To: IITJ, Time: 17:00, Cabs: 2
From: Paota, To: IITJ, Time: 12:00, Cabs: 1
From: Paota, To: IITJ, Time: 13:00, Cabs: 1
From: Paota, To: IITJ, Time: 14:00, Cabs: 1
From: Sardarpura, To: IITJ, Time: 21:00, Cabs: 1

10. Show Booked Trips :

The page for admins to view all booked trips. Admins can see the details of each booked trip.

Show Booked Trips

Show Booked Trips

Cab Number: RJ19PB002, From: AIIMS, To: IITJ, Time: 14:00

Conclusion :

The Smart Cab Allocation System provides an efficient and user friendly way to manage and allocate cabs for trips. By integrating real time location data and optimizing cab allocation, the system improves overall efficiency and user experience for both admins and employees. Also user can make trip plans and have nice journey experience.