**Admin Portal:**

**THE BOOKINGS…**

1. **Route Creation:**
   1. Admins can create a new route by specifying the distance and the stations along the route.
   2. Each route will have a unique identifier to avoid duplication and confusion.
2. **Bus Details and Stops:**
   1. Admins can add detailed information about each bus, including its unique bus number, seating capacity, and amenities.
   2. Assign the bus to a specific route and define its stops along with the timing for each stop.
3. **Fare Calculation:**
   1. Admins can set the fare for each route based on the distance.
   2. The fare will include a calculation based on kilometres and an additional government tax percentage, which is also defined by the admin.
4. **Bus Timing Validation:**
   1. The system will ensure that no two buses are scheduled for the same route at the same time to prevent overlaps and scheduling conflicts.
5. **Booking Notifications:**
   1. When a bus is 70% or more booked, the system will automatically send a notification to the admin, allowing them to manage resources and plan accordingly.

**User Portal:**

1. **Bus Search:**
   1. Users can search for buses covering a specific route on a given date.
   2. The search results will display available buses, their timings, and any other relevant details.
2. **Bus Booking:**
   1. Users can book a seat on a bus if it is available for their selected route and date.
   2. The system will check seat availability in real-time to prevent overbooking.
3. **Booking Restrictions:**
   1. The system will enforce a rule that does not allow a man to book a seat next to a single lady for safety and comfort reasons.
4. **Station-based Booking:**
   1. If a passenger has already booked a ticket from station B to C, the system will still allow another passenger to book from station A to B on the same bus, ensuring efficient use of available seats.
5. **Fare Calculation:**
   1. The fare for the selected route will be calculated based on the distance and the rate decided by the admin.
   2. The government tax, as decided by the admin, will be added to the fare.
6. **Payment Processing:**
   1. Users can choose their preferred payment method, such as cash, card, or UPI.
   2. If the user selects cash, no additional charge will be applied.
   3. For card or UPI payments, an extra handling charge of 26 Rs will be added to the total fare.
   4. The system will record the payment details, including the payment type and any additional charges, for future reference.

Bonus: Apply Coupon which will be manage by Admin from Admin Portal.