

Bus Booking

We need to build a bus booking engine where users can book bus seats.

1. Home page
 - a. Should have a search box to search start location, end location, date, number of passengers
 - b. Show listing page when user clicks on search
2. Listing Page
 - a. Show list of available routes for the selected criteria
 - b. Provide filters and sort by options for journey (client side only)
 - c. Provide search option in journey page also (client side only)
 - d. Provide Book button for each route
3. Checkout
 - a. When a user clicks on book, show checkout page
 - b. Ask user phone and address
 - c. Ask user payment details (Dummy api) and confirm payment
 - d. Generate ticket once payment is approved
4. My Tickets / Bookings
 - a. Show user his/her booking

Good to have:

1. Show promotions / offers / discount on home page
2. Apply coupons
3. Allow user to have multiple booking
4. Allow user to register and login

Technical Requirements:

- Backend - Java and Spring Boot applications
- Frontend - ReactJs
- Database - MariaDb and/or MongoDB
- All validations should be in place and proper error handling and messages should be shown on UI
- Follow all security best practices.

Deliverables

- Technical Design Document explaining DB design
- API Specs
- Test cases
- Working UI portals

References:

<https://www.abhibus.com/>

<https://www.redbus.in/>