

Bus Ticket Reservation App

Developed a responsive MERN stack (MongoDB, Express.js, React.js, Node.js) bus booking platform with JWT and Google Authentication for secure user login. Features include real-time seat selection, booking management, email notifications via Nodemailer, and a role-based admin dashboard for fleet and user operations. Integrated Razorpay payment gateway for secure online payments. Used Tailwind CSS for styling, React Context & React Query for state management, and implemented security practices like input validation and rate limiting.

MongoDB Atlas is used to store the data , the Cluster name is "BusReservationCluster", and database name is "busreservation" with collections (user, bookings, buses) in google account "deepann09112004@gmail.com".

Hosted in "render.com" as a Web Service: <https://busbee.onrender.com>.

Root Directory: ./

Build Command: npm install && npm run build && npm run install-chrome

Start Command : npm start

Environment Variables:

Google Auth : "BusBee"

CLIENT_URL=https://busbee.onrender.com

EMAIL_PASS=jzwgbdlyollakxyk

EMAIL_USER=deepann09112004@gmail.com

FRONTEND_URL=https://your-frontend-url.com

GOOGLE_CLIENT_ID=592702410141-

8tpjns05a78h4ei2amuf67ujer86bobk.apps.googleusercontent.com

GOOGLE_CLIENT_SECRET=GOCSXPX-FjYRfF_4QO24OZHXSrju3YFLMqAi

JWT_SECRET=K8f2Nx9mP4qR7sT1vW3yZ5bC8eH6jL9n

MONGODB_URI="mongodb+srv://busadmin:U0yl48Vu6AjrM0vz@busreservationcluster.arsla6o.mongodb.net/busreservation?retryWrites=true&w=majority"

NODE_ENV=production

PORT=5000

PUPPETEER_CACHE_DIR=/opt/render/.cache/puppeteer

PUPPETEER_EXECUTABLE_PATH=/opt/render/.cache/puppeteer/chrome/linux-*/chrome

PUPPETEER_SKIP_CHROMIUM_DOWNLOAD=false

RAZORPAY_KEY_ID=rzp_test_vylqu1l6gwRpij

RAZORPAY_KEY_SECRET=uFtKYFaIGlxVkpSmPtnZFS2h

REACT_APP_BACKEND_URL=https://busbee.onrender.com

SESSION_SECRET="RetxmMJ5e5cttWBQlped0mamMXEOmiJ1tIgmhXNyeFo="

RazorPay Payment Gateway is used as an "test mode" for developers and the google account used for razorpay is "deepann2004@gmail.com".

Admin account is : deepann2004@gmail.com

the admin account is used to add and manage the buses , routes and bookings , login using the google authentication.

While Local development (VS CODE):

Google Auth : "BusBeeLocal"

Environment Variables :

RAZORPAY_KEY_ID=rzp_test_vylqu1l6gwRpij

RAZORPAY_KEY_SECRET=uFtKYFaIGlxVkPSmPtnZFS2h

MONGODB_URI=mongodb+srv://busadmin:U0yl48Vu6Ajrm0vz@busreservationcluster.arsla6o.mongodb.net/busreservation?retryWrites=true&w=majority

JWT_SECRET=K8f2Nx9mP4qR7sT1vW3yZ5bC8eH6jL9n

EMAIL_USER=deepann09112004@gmail.com

EMAIL_PASS=jzwgbdlyollakxyk

FRONTEND_URL=https://your-frontend-url.com

PORT=5000

GOOGLE_CLIENT_ID=592702410141-oncqhshr49r1o8a6e5hmklmvjnmiiita97.apps.googleusercontent.com

GOOGLE_CLIENT_SECRET=GOCSXP-nr9Mf-1CLWXEkn0kM7mN6NtulvUi

SESSION_SECRET=RetxmMJ5e5cttWBQlped0mamMXEOmiJ1tIgmhXNyeFo=

REACT_APP_BACKEND_URL=http://localhost:5000

CLIENT_URL=http://localhost:3000

NODE_ENV=development

To run :

open terminal and split as 2 terminals , one for backend and another for frontend

Backend Command : npm run dev

Frontend Command : cd frontend , npm start