

- **Prisma Schema**

```
• datasource db {
•   provider = "mysql"
•   url      = env("DATABASE_URL")
• }
•
• generator client {
•   provider = "prisma-client-js"
• }
•
• model User {
•   id          Int          @id @default(autoincrement())
•   email       String        @unique
•   name        String
•   password    String
•   refreshToken RefreshToken[]
•   properties  Property[]
•   bookings    Bookings[]
• }
•
• model RefreshToken {
•   id      Int    @id @default(autoincrement())
•   token   String @unique
•   userId  Int
•   user    User   @relation(fields: [userId], references: [id])
• }
•
• model Property {
•   id          Int          @id @default(autoincrement())
•   title       String
•   address     String
•   description  String
•   extraInfo   String
•   checkIn     String
•   checkOut    String
•   price       String
•   Image       Image[]
•   User        User?        @relation(fields: [userId], references: [id])
•   userId      Int?
•   Bookings    Bookings[]
• }
•
• model Image {
•   id          Int          @id @default(autoincrement())
•   url         String
•   property    Property @relation(fields: [propertyId], references: [id])
•   propertyId  Int
```

```

•   }
•
•   model Bookings {
•     id          Int          @id @default(autoincrement())
•     propertyId  Int
•     userId      Int
•     checkIn     DateTime
•     checkOut    DateTime
•     totalPrice  Int
•     property    Property @relation(fields: [propertyId], references: [id])
•     user        User       @relation(fields: [userId], references: [id])
•     Payment     Payment[]
•   }
•
•   model Payment {
•     id          Int          @id @default(autoincrement())
•     bookingId   Int
•     status      String
•     booking     Bookings @relation(fields: [bookingId], references: [id])
•   }
•
•   model Admin {
•     id          Int          @id @default(autoincrement())
•     email       String       @unique
•     password    String
•     token       String?
•   }
•

```

• index.js – backend

```

•   const express = require("express");
•   const cors = require("cors");
•   const morgan = require("morgan");
•   const cookieParser = require("cookie-parser");
•   require("dotenv").config();
•   const { PrismaClient } = require("@prisma/client");
•   const prisma = new PrismaClient();
•   const port = process.env.PORT;
•
•
•   const app = express();
•   app.use(
•     cors({
•       origin: ["http://localhost:5173", "http://localhost:5174"],
•       credentials: true,
•     })
•   );
•
•   app.use(morgan("dev"));

```

```

• app.use(express.json());
• app.use(cookieParser());
• app.use("/uploads", express.static("uploads"));
•
• const userRouter = require("./routes/userRoute");
• const profileRouter = require("./routes/profileRoute");
• const propertyRouter = require("./routes/propertyRoute");
• const logoutRouter = require("./routes/logoutRoute");
• const bookingRouter = require("./routes/bookingRoute");
• const { verifyJWT } = require("./middleware/verifyJWT");
• const { verifyAdminToken } = require("./middleware/verifyAdminToken");
• const adminUsersRouter = require("./routes/admin/usersRoute");
• const adminBookingsRouter = require("./routes/admin/bookingsRoute");
• const adminPropertyRouter = require("./routes/admin/propertyRoute");
• const adminDashboardRouter = require("./routes/admin/dashboardRoute");
• const adminLoginRouter = require("./routes/admin/loginRoute");
• const adminLogoutRouter = require("./routes/admin/logoutRoute");
•
• app.use("/api/user", userRouter);
•
• const axios = require("axios");
•
• app.get("/api/properties", async (req, res) => {
•   try {
•     const properties = await prisma.property.findMany({
•       include: {
•         Image: true,
•       },
•     });
•
•     res.json(properties);
•   } catch (error) {
•     console.error(error);
•     res
•       .status(500)
•       .json({ error: "An error occurred while fetching the properties." });
•   }
• });
•
• app.use("/api/property", verifyJWT, propertyRouter);
• app.use("/api/profile", verifyJWT, profileRouter);
• app.use("/api/logout", verifyJWT, logoutRouter);
• app.use("/api/booking", verifyJWT, bookingRouter);
•
• app.post("/api/khalti", verifyJWT, async (req, res) => {
•   const { purchase_order_id, purchase_order_name, amount } = req.body;
•   const userId = req.user ? req.user.id : null;
•   console.log(userId);

```

```

•
•   const user = await prisma.user.findUnique({
•     where: {
•       id: userId,
•     },
•   });
•
•   const data = {
•     return_url: "http://localhost:5173/payment",
•     website_url: "http://localhost:5173/",
•     amount: amount,
•     purchase_order_id,
•     purchase_order_name,
•     customer_info: {
•       name: user.name,
•       email: user.email,
•     },
•   };
•
•   try {
•     const response = await axios({
•       method: "post",
•       url: "https://a.khalti.com/api/v2/epayment/initiate/",
•       data: data,
•       headers: {
•         Authorization: "key 1f321a829ba14e379b80dedb83327539",
•         "Content-Type": "application/json",
•       },
•     });
•
•     res.json({ data: response.data });
•   } catch (error) {
•     console.error("Error from Khalti API", error.response.data);
•     res.status(500).json({ message: "Payment failed", error: error.message });
•   }
• });
•
• app.post("/api/payment", verifyJWT, async (req, res) => {
•   const { bookingId, status } = req.body;
•   const bookingIdInt = parseInt(bookingId, 10); // Convert bookingId to integer
•
•   try {
•     await prisma.payment.upsert({
•       where: { id: bookingIdInt },
•       update: { status },
•       create: {
•         status,
•         bookingId: bookingIdInt,

```

```

    },
  });

  res.status(200).json({ message: "Payment status updated successfully." });
} catch (error) {
  console.log(error);
  res
    .status(500)
    .json({ error: "An error occurred while updating the payment status." });
}
});

app.get("/api/property/:id", async (req, res) => {
  const { id } = req.params;
  try {
    const property = await prisma.property.findUnique({
      where: {
        id: parseInt(id),
      },
      include: {
        Image: true,
      },
    });
  }
});

res.json(property);
} catch (error) {
  console.error(error);
  res
    .status(500)
    .json({ error: "An error occurred while fetching the property." });
}
});

app.get;

app.use("/api/admin", adminLoginRouter);
app.use("/api/admin", verifyAdminToken, adminDashboardRouter);
app.use("/api/admin", verifyAdminToken, adminUsersRouter);
app.use("/api/admin", verifyAdminToken, adminPropertyRouter);
app.use("/api/admin", verifyAdminToken, adminBookingsRouter);
app.use("/api/admin", verifyAdminToken, adminLogoutRouter);

app.listen(port, (error) => {
  if (error) throw error;
  console.log("My app is running on port", port);
});

```

- **Booking Controller - Backend**

```
const { PrismaClient } = require("@prisma/client");
const prisma = new PrismaClient();

const addBooking = async (req, res) => {
  const propertyId = req.params.id;
  const userId = req.user.id;
  const { checkIn, checkOut } = req.body;

  // Validate checkIn and checkOut
  if (!Date.parse(checkIn) || !Date.parse(checkOut)) {
    return res.status(400).json({ error: "Invalid checkIn or checkOut date." });
  }

  try {
    // Fetch the property data
    const property = await prisma.property.findUnique({
      where: { id: parseInt(propertyId) },
    });

    // Check if the property is already booked for the requested dates
    const existingBooking = await prisma.bookings.findFirst({
      where: {
        propertyId: parseInt(propertyId),
        OR: [
          {
            AND: [
              { checkIn: { lte: new Date(checkIn) } },
              { checkOut: { gte: new Date(checkIn) } },
            ],
          },
          {
            AND: [
              { checkIn: { lte: new Date(checkOut) } },
              { checkOut: { gte: new Date(checkOut) } },
            ],
          },
        ],
      },
    });

    if (existingBooking) {
      return res.status(400).json({
        error: "The property is already booked for the requested dates.",
      });
    }
  }
}
```

```

// Calculate the number of days between checkIn and checkOut
const checkInDate = new Date(checkIn);
const checkOutDate = new Date(checkOut);
const diffTime = Math.abs(checkOutDate - checkInDate);
const diffDays = Math.ceil(diffTime / (1000 * 60 * 60 * 24));

// Calculate the total price
const totalPrice = diffDays * property.price;

const booking = await prisma.bookings.create({
  data: {
    checkIn,
    checkOut,
    propertyId: parseInt(propertyId),
    userId,
    totalPrice, // Include the total price in the booking data
    Payment: {
      // Create a new payment with status "pending"
      create: {
        status: "pending",
      },
    },
  },
  include: {
    Payment: true, // Include the payment in the returned booking data
  },
});

res.json(booking);
} catch (error) {
  console.error(error);
  res
    .status(500)
    .json({ error: "An error occurred while adding the booking." });
}
};

const getBookings = async (req, res) => {
  try {
    const userId = req.user.id;
    const bookings = await prisma.bookings.findMany({
      where: {
        userId: userId,
      },
      include: {
        property: {
          include: {
            Image: true,

```

```

        User: true,
      },
    },
    user: true,
    Payment: true, // Include the Payment model
  },
});

// Print the user who added the property and payment status for each booking
bookings.forEach((booking) => {
  console.log(booking.property.User);
  console.log(booking.Payment); // Print the payment status
});

res.json(bookings);
} catch (error) {
  console.error(error);
  res
    .status(500)
    .json({ error: "An error occurred while fetching the bookings." });
}
};

const deleteBooking = async (req, res) => {
  const { bookingId } = req.body;
  try {
    await prisma.payment.deleteMany({
      where: {
        bookingId: parseInt(bookingId),
      },
    });
  });

  await prisma.bookings.delete({
    where: {
      id: parseInt(bookingId),
    },
  });
});

res.json({ message: "Booking deleted successfully" });
} catch (error) {
  console.error(error);
  res
    .status(500)
    .json({ error: "An error occurred while deleting the booking." });
}
};

module.exports = { addBooking, getBookings, deleteBooking };

```


- **Booking routes – backend**

```
• const express = require("express");
• const bookingRouter = express.Router();
• const {
•   addBooking,
•   getBookings,
•   deleteBooking,
• } = require("../controllers/bookingController");
•
• bookingRouter.post("/add/:id", addBooking);
• bookingRouter.get("/", getBookings);
• bookingRouter.delete("/delete", deleteBooking);
•
• module.exports = bookingRouter;
```

- **Booking.jsx – Front end**

```
• import React, { useState, useEffect, useContext } from "react";
• import axios from "axios";
• import { toast } from "react-hot-toast";
• import { UserContext } from "../util/UserContext";
• import { Link } from "react-router-dom";
• import BookingComponent from "../components/BookingComponent";
•
• export default function Bookings() {
•   const [bookings, setBookings] = useState([]);
•   const [isLoading, setIsLoading] = useState(true);
•   const [popup, setPopup] = useState(false);
•   const [refresh, setRefresh] = useState(false);
•
•   const { user } = useContext(UserContext);
•
•   const handleDelete = (bookingId) => {
•     axios
•       .delete(`booking/delete`, { data: { bookingId: bookingId } })
•       .then(() => {
•         toast.success("Booking deleted");
•         setRefresh((prev) => !prev); // Toggle refresh state to trigger re-fetching of
bookings
•       })
•       .catch((error) => {
•         toast.error("Failed to delete booking");
•         console.error(error);
•       });
•   };
•
•   const initiatePayment = async (
```

```

•     purchase_order_id,
•     purchase_order_name,
•     amount
•   ) => {
•     try {
•       const response = await axios.post("/khalti", {
•         purchase_order_id,
•         purchase_order_name,
•         amount,
•       });
•       console.log(response.data);
•       console.log(response.data.data.payment_url);
•       window.location.href = response.data.data.payment_url;
•     } catch (error) {
•       console.error("Error initiating payment", error);
•     }
•   };
•
•   const handlePopup = () => {
•     if (popup) {
•       setPopup(false);
•     } else {
•       setPopup(true);
•     }
•   };
•
•   useEffect(() => {
•     setIsLoading(true);
•     axios
•       .get("booking")
•       .then((response) => {
•         const bookings = response.data;
•         return Promise.all(
•           bookings.map((booking) =>
•             axios.get(`property/${booking.propertyId}`).then((response) => ({
•               ...booking,
•               property: response.data,
•             })))
•         );
•       });
•     .then((bookingsWithProperty) => {
•       const futureBookings = bookingsWithProperty.filter((booking) => {
•         const checkInDate = new Date(booking.checkIn);
•         const today = new Date();
•         return checkInDate >= today;
•       });
•       setBookings(futureBookings);

```

```

    })
    .catch((error) => {
      console.log(error);
    })
    .finally(() => {
      setIsLoading(false);
    });
  }, [user, refresh]);

  if (isLoading) {
    return <div className="">Loading...</div>;
  }

  if (!user) {
    return (
      <div className="container text-center mt-20 text-3xl font-bold w-fit flex mx-auto
border border-gray-300 py-20 px-12 rounded-xl shadow-lg flex-col text-white">
        <div className="">Please login to view your bookings 

```

```
•         />
•         }}
•         </div>
•         </div>
•     );
• }
•
```