MANZIL: TOURISM GUIDE APPLICATION

BACKGROUND

- Manzil is a mobile application designed to assist individuals travelling to northern destinations and major cities of Pakistan.
- It aims to streamline the process by providing a one stop shop for hotel and car rental bookings, itinerary planning, weather updates, as well as finding local places along with their reviews and navigating to those places.
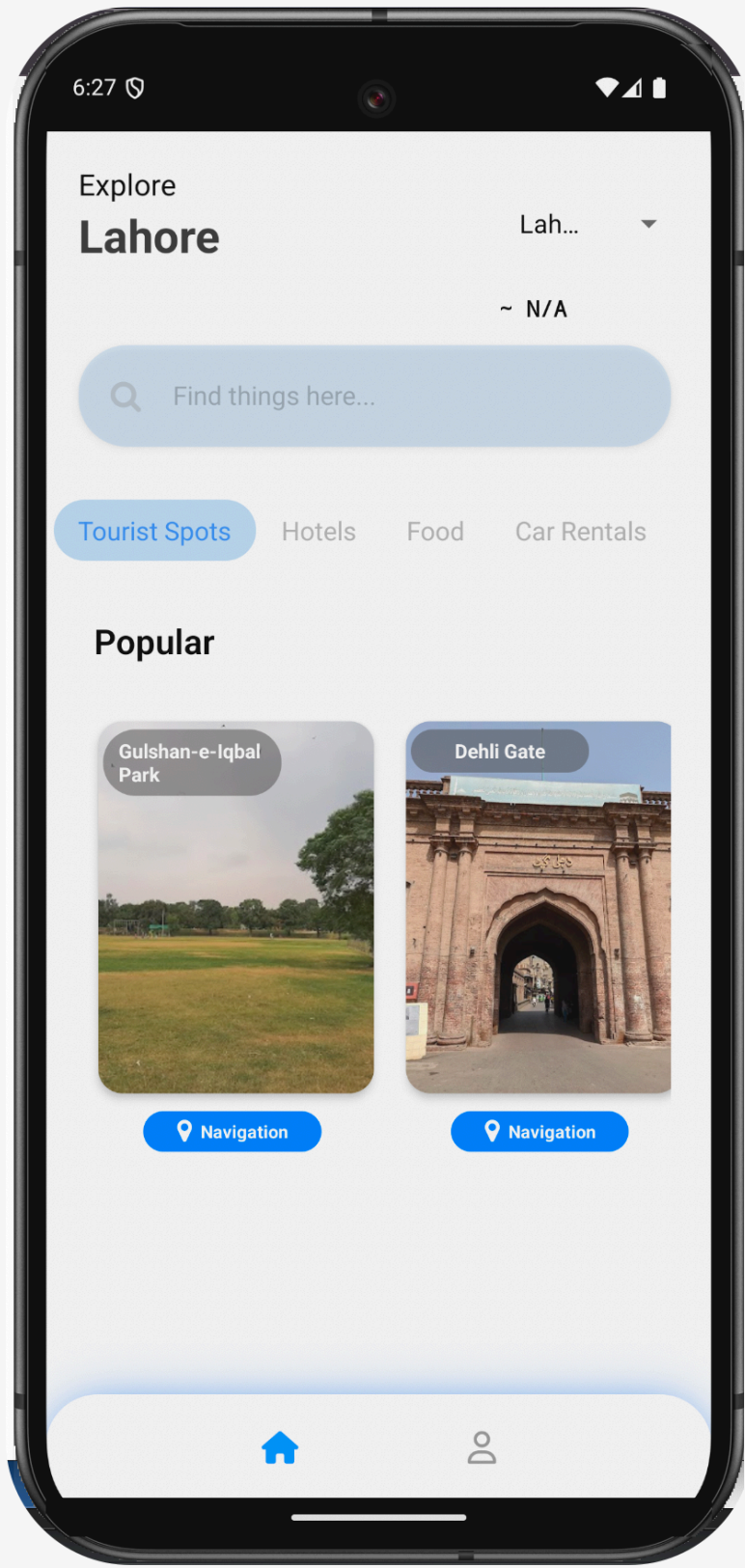
MAIN FEATURES

Customers:
- AI trip planning.
- Hotel and car rental bookings.
- Finding tourist spots, restaurants, hotels and car rentals through recommendations and search and navigating to those places.
- Checking and posting reviews for places.

Hotel admin:
- Manage room and hotel information.
- Accept or reject reservation requests.

Car rental admin:
- Manage rental inventory and data.
- Accept or reject booking requests.
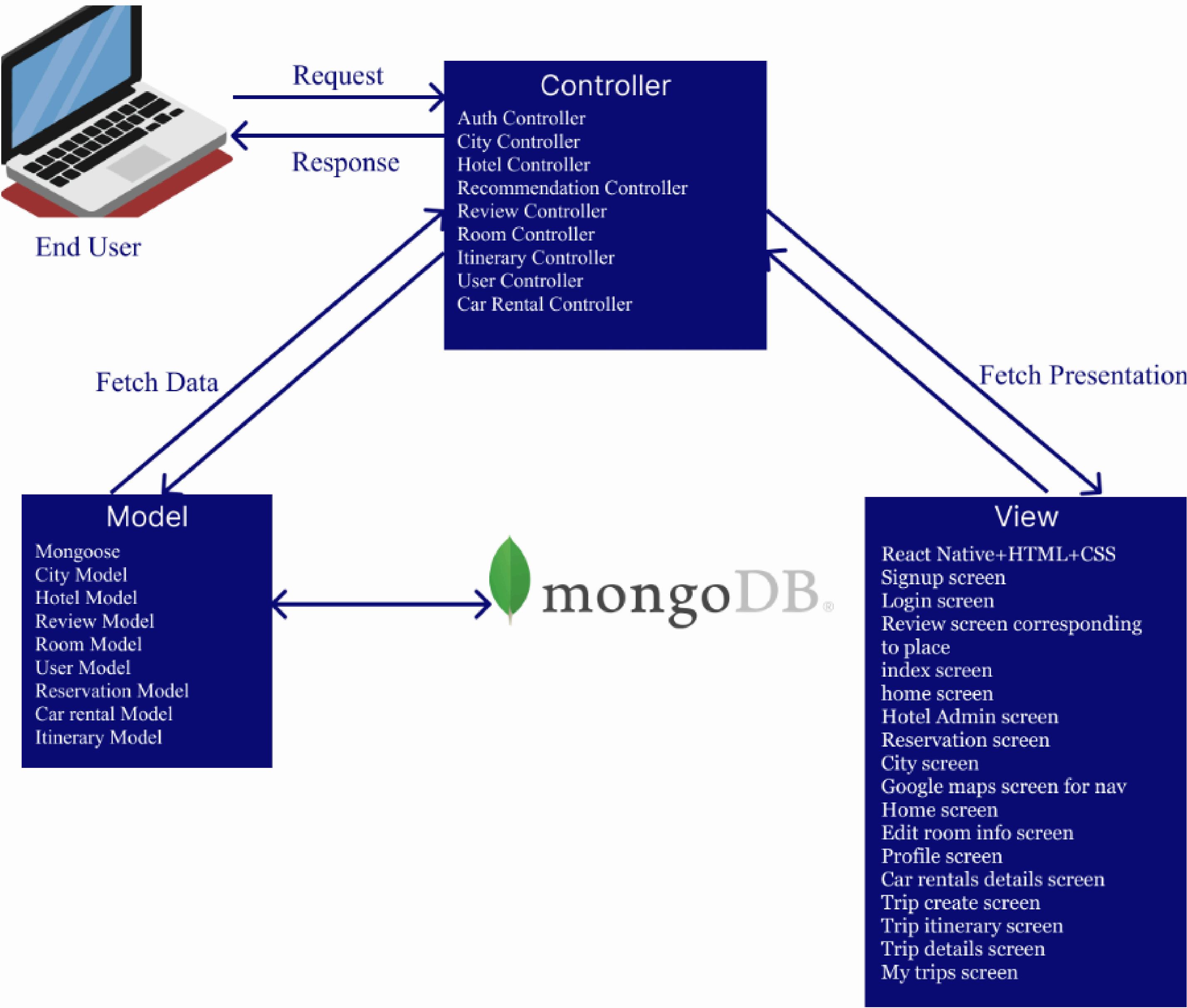
FUTURE WORK

Online payments: online payments to automate hotel room and car rental bookings.

User tailored recommendations: recommendations based on user interaction.

Smarter search: search recommendations and typo corrections.

Alerts: regular notifications during the trip for a more involved user experience.

ARCHITECTURE

Controller
Auth Controller
City Controller
Hotel Controller
Recommendation Controller
Review Controller
Room Controller
Itinerary Controller
User Controller
Car Rental Controller

Request
Response
End User
Fetch Data
Fetch Presentation

Model
Mongoose
City Model
Hotel Model
Review Model
Room Model
User Model
Reservation Model
Car rental Model
Itinerary Model

View
React Native+HTML+CSS
Signup screen
Login screen
Review screen corresponding to place
index screen
home screen
Hotel Admin screen
Reservation screen
City screen
Google maps screen for nav
Home screen
Edit room info screen
Profile screen
Car rentals details screen
Trip create screen
Trip itinerary screen
Trip details screen
My trips screen

TOOLS

node.js
mongoDB
Express
Gemini
Google APIs
OpenWeather

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