Smart Stay

An AI-based Hotel, Food, and Travel Recommendation System

Team Name: Smart Stay

Team Members:

1. KUMAR V S

2. THARUN B

3. VISHAL V R

4. SATHISH S

Institution: BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHAYAMANGLAM

Contact Email: kumar.ct22@bitsathy.ac.in

Problem Statement

Travelers often face difficulty in choosing the right hotel, food, or place to visit. Most existing platforms show too many options without personalization. There is a need for a smart assistant that understands user preferences and simplifies decision-making.

Our Solution – Smart Stay

Smart Stay is an AI-powered travel assistant that recommends hotels, food options, and tourist places. It learns from user feedback and preferences to improve suggestions over time.

Key Features

• AI-based hotel and food recommendations

• Personalized results using user history and feedback

• Sentiment analysis for feedback

• Simple and clean user interface

Tech Stack
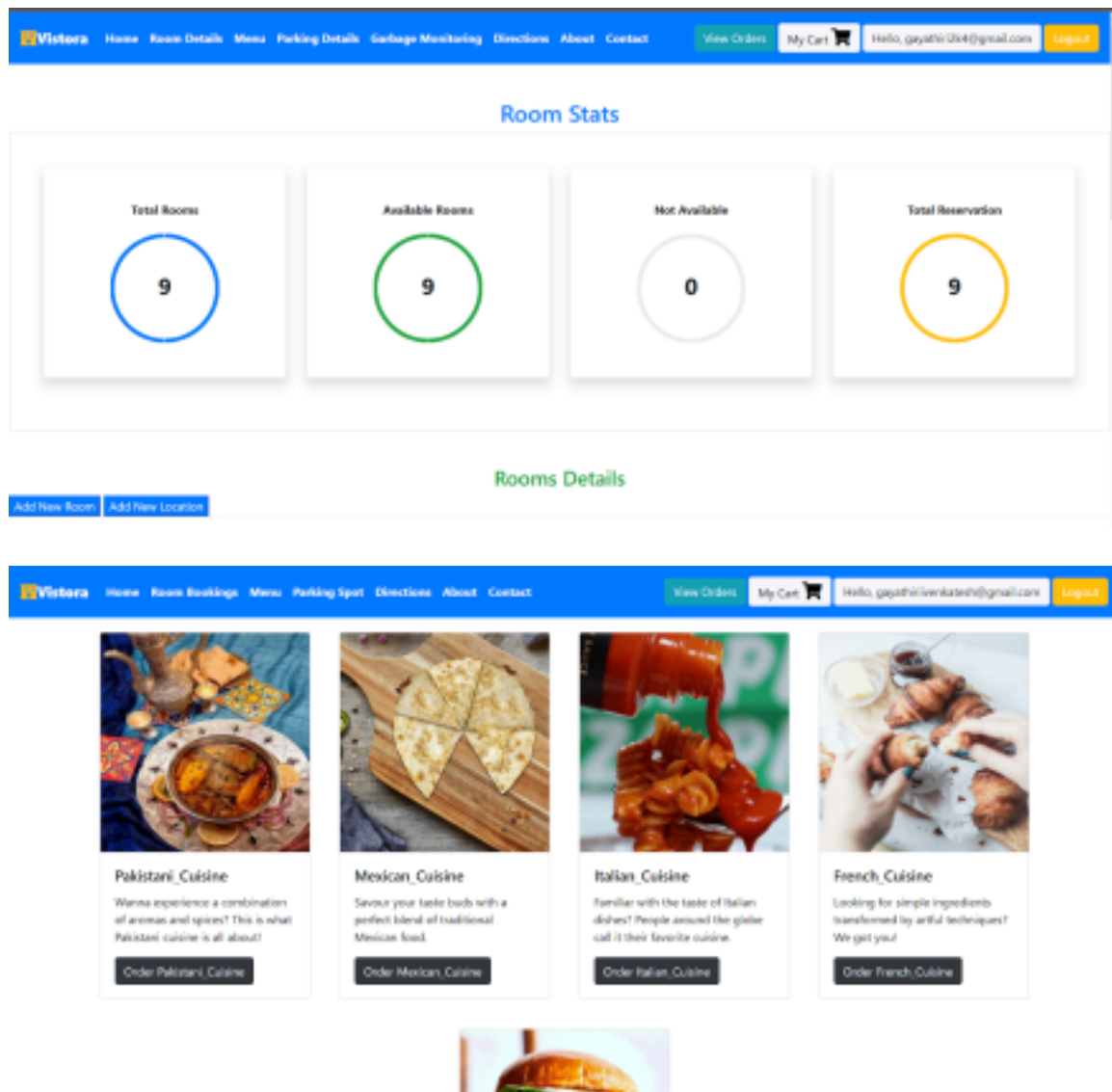
• Front End: React.js

• Back End: Node.js / Flask

• AI/ML: Python (scikit-learn, pandas, NLTK)

• Database: MySQL / MongoDB

• Deployment: Vercel / Heroku / AWS

System Architecture

The system consists of three main components:
- Front End (UI): Collects user input and displays suggestions
- AI Model: Analyzes data and gives recommendations
- Database: Stores hotels, food data, and user feedback

Project Screenshots & Team Photos

Current Progress

• Front end is developed and UI is functional

• Sample AI model trained on hotel data

• Feedback form integrated with basic sentiment analysis

• Project working as a demo version

Future Scope

• Add voice-based input and chatbot feature

• Integrate location-based search and GPS

• Link with hotel booking and food APIs

• Build mobile app version

Thank You!

We're excited to make travel smarter with AI!

Contact: kumar.ct22@bitsathy.ac.in