



**Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY, THANE**
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Department of Information Technology

Implementing AI Based Comprehensive Web Framework for Tourism

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Introduction

- The proposed smart tourism website is a travel website which provides with trip plans, hotel bookings, flight bookings, etc. and helps the end user find a suitable hotel / tour plan.
- The website also provides with an itinerary of tour and shows nearby attraction places to visit in the vicinity of the end user or a hotel.

Objectives

- To create and implement a smart tourism website to provide users with suggestions to tourist attraction spots, hotel booking, and tour planning using Django
- To allow users to filter hotels through various parameters like budget, duration of stay, type of trip, recommended tourist spots, etc.
- To provide customers with an itinerary for each day of trip as per user preference.
- To implement an AI chatbot for basic user queries.

Problem Definition

- Increasingly tourists are planning trips by themselves using the abundant information available on the web, however they still expect and want trip plan advisory services.
- This project proposes a travel website which provides hotel booking system and a tour itinerary with day wise plan for the trip and recommends attraction places to visit in the vicinity of end user or a hotel.

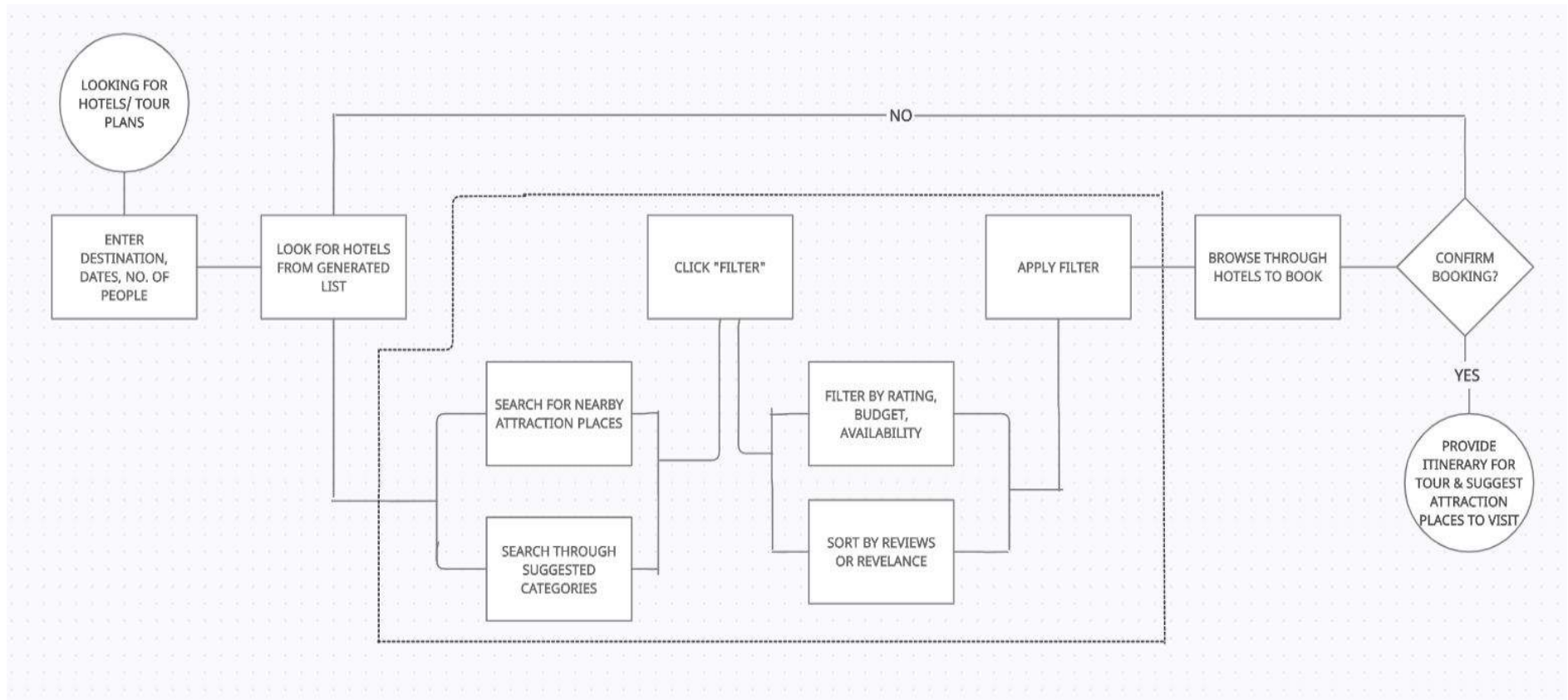
Technological Stack

- Frontend :
 - Html, CSS, JS
 - Django / SQL
- AI Chatbot
- ML : Content Based recommendation system

Review Suggestions

- Provide user with attraction places near a hotel or user location.
- Provide users with hotel and flight booking.
- Provide users with different types of tours to customize the trip accordingly (business trip, family trip, etc.)
- Implement Recommendation System

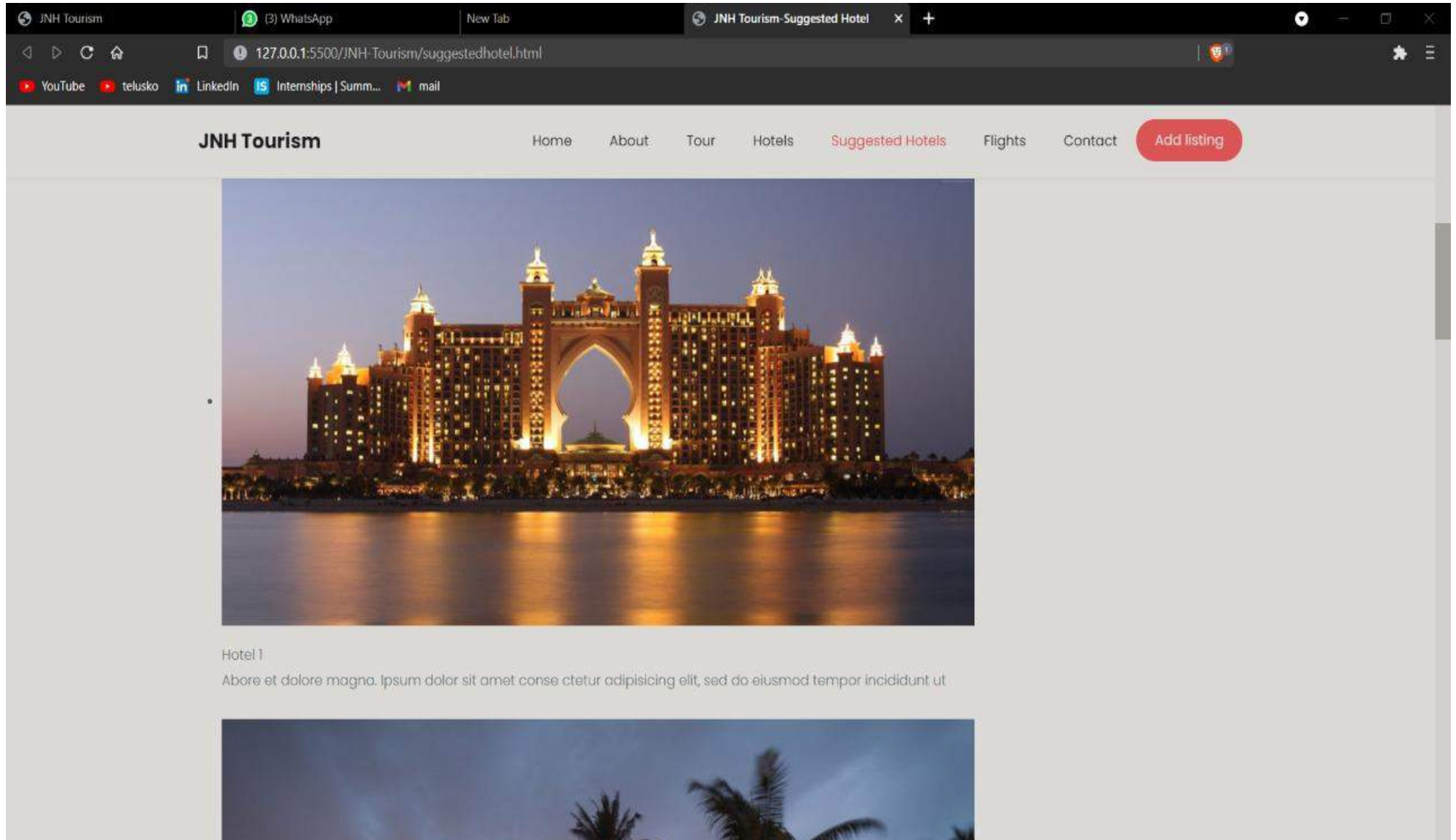
Proposed System Architecture/Working



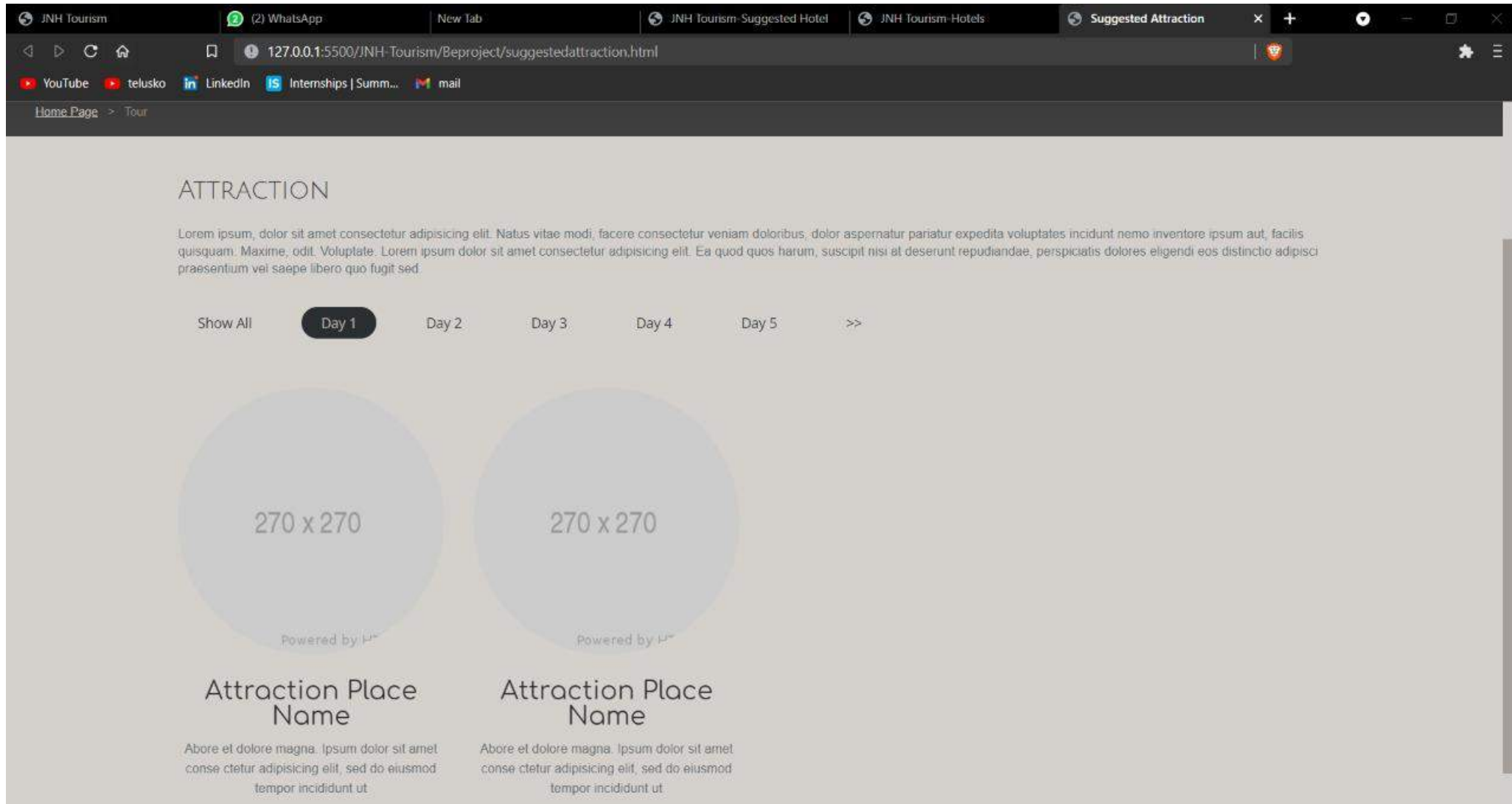
Implementation Status

- Built frontend : Home page, Hotels page, Flight booking page, About us page, Contact page, Recommendation page
- Working on implementing API to get the relevant data on backend
- Working on implementing an AI chatbot that can provide users with simple answers for any queries

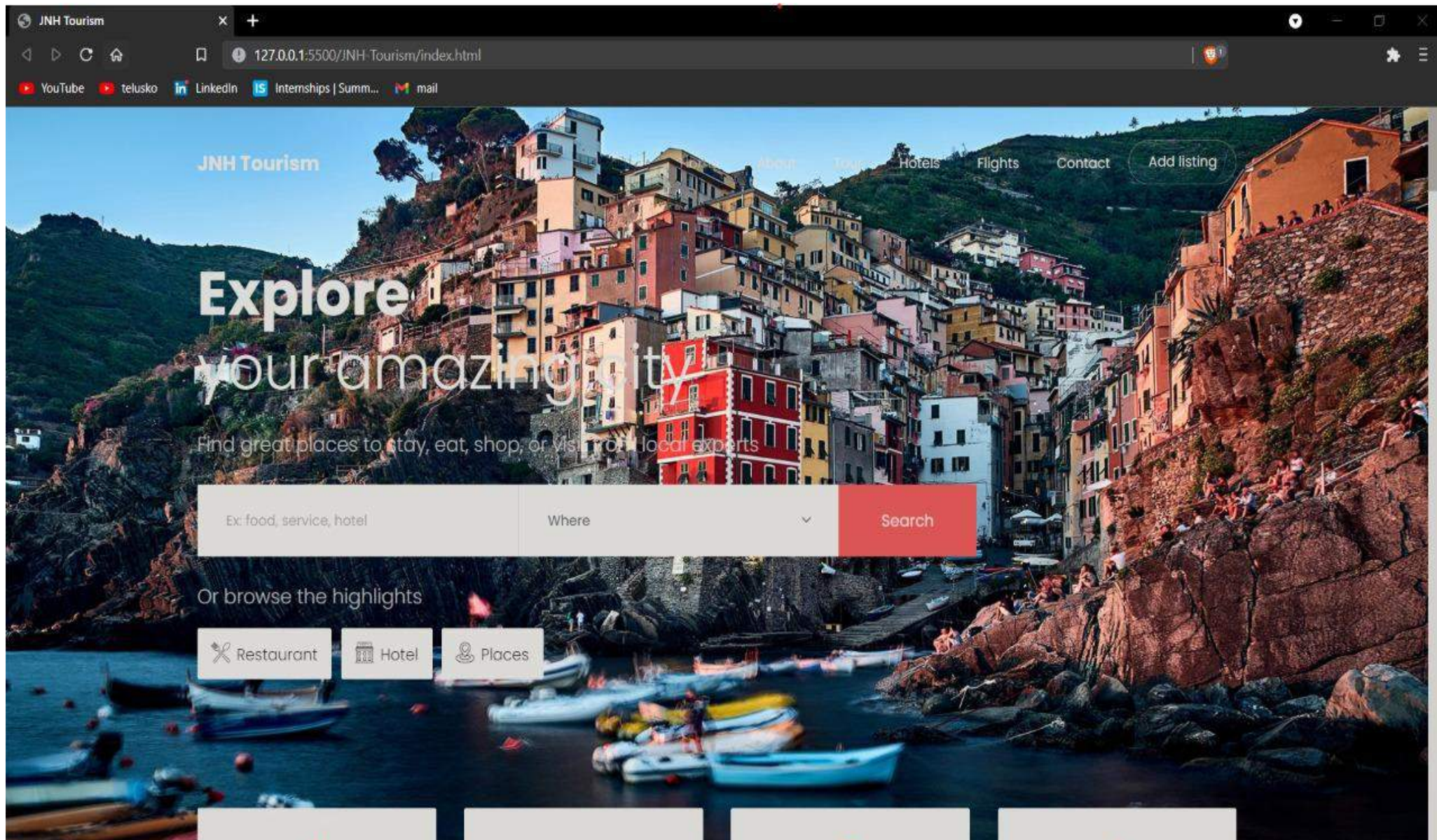
Page : Suggested Hotel



Page : Suggested Attraction



Page : Hotel Search



Page : Hotel Details

JNH Tourism

(2) WhatsApp

New Tab

JNH Tourism-Suggested Hotel

JNH Tourism-Hotels

127.0.0.1:5500/JNH-Tourism/hotel_single.html

YouTube

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LinkedIn

Internships | Summ...

mail

JNH Tourism

Home

About

Tour

Hotels

Flights

Contact

Add listing

Date to

25000 - 50000

Search

STAR RATING

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Our Best hotels & Rooms

Luxury Hotel

 ★ ★ ★ ★ ☆ 8 Rating


When she reached the first hills of the Italic Mountains, she had a last view back on the skyline of her hometown Bookmarksgrove, the headline of Alphabet Village and the subline of her own road, the Line Lane. Pityful a rethoric question ran over her cheek, then she continued her way.

Page : Flight Booking

JNH Tourism (2) WhatsApp New Tab JNH Tourism-Suggested Ho JNH Tourism-Hotels Suggested Attraction JNH Tourism-Flights

127.0.0.1:5500/JNH-Tourism/flight.html

YouTube telusko LinkedIn Internships | Summ... mail



Check availability for *direction*:

From: To:

Departure date: Return date:

Round ☐ Oneway ☐

[Order Ticket Now](#)

Page : Tour Packages

JNH Tourism

(2) WhatsApp

New Tab

JNH Tourism-Suggeste...

JNH Tourism-Hotels

Suggested Attraction

JNH Tourism-Flights

JNH Tourism-Tour x

+

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JNH Tourism

Home

About


Tour

Hotels

Flights

Contact

Add listing




FIND CITY

Destination, City

Select Location

Date from

Date to




Mumbai₹1000

★★★★☆8

Rating

Lorem ipsum dolor sit amet




Delhi₹1000

★★★★☆8

Rating

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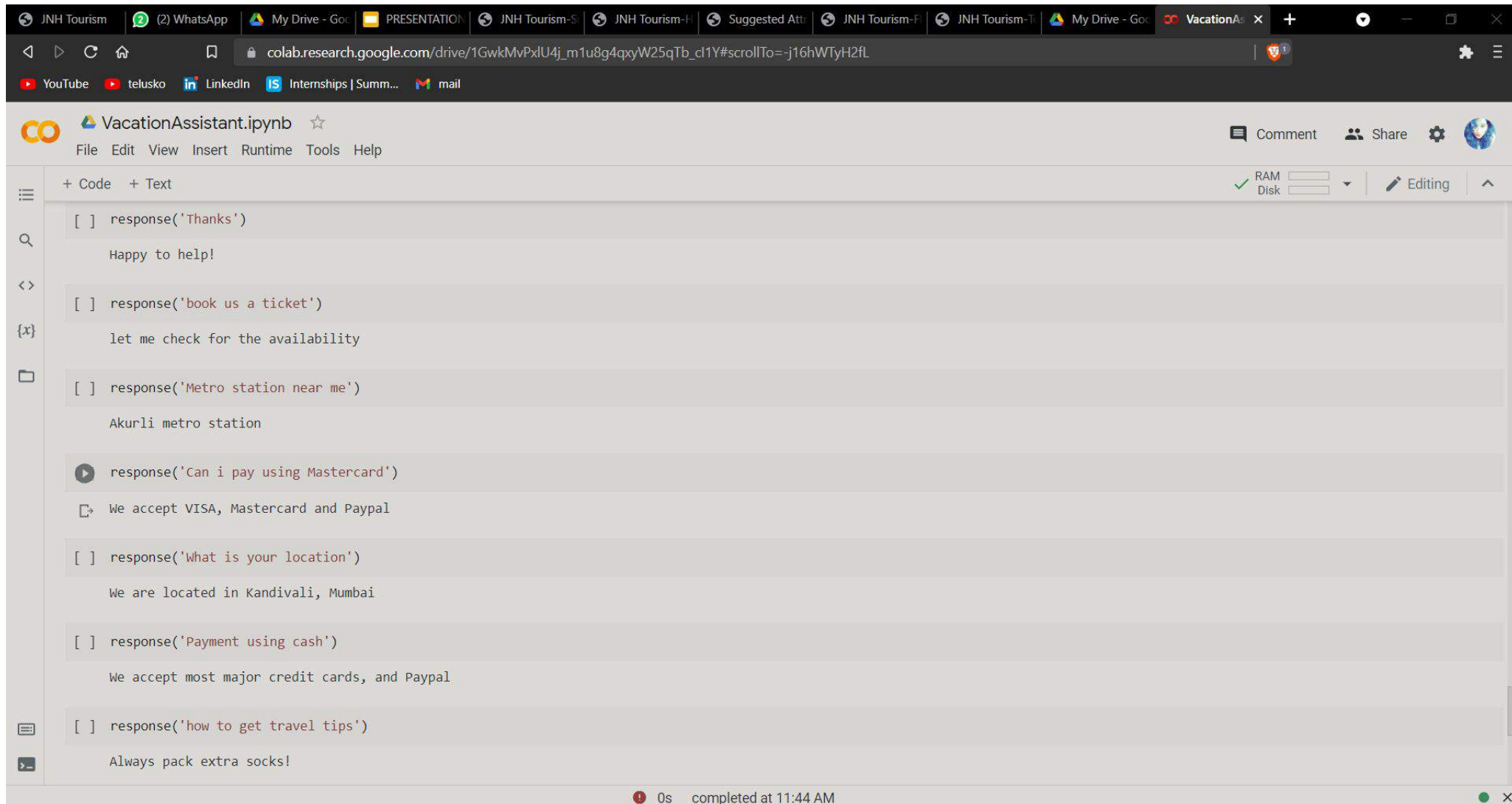
Punjab₹1000

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Rating

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Chatbot



The screenshot shows a Google Colab notebook titled "VacationAssistant.ipynb". The browser tabs at the top include "JNH Tourism", "(2) WhatsApp", "My Drive - Google", "PRESENTATION", "JNH Tourism-S", "JNH Tourism-H", "Suggested Att...", "JNH Tourism-F", "JNH Tourism-T", "My Drive - Google", and "VacationAs". The address bar shows the URL "colab.research.google.com/drive/1GwkMvPxLU4j_m1u8g4qxyW25qTb_cl1Y#scrollTo=-j16hWTyH2fL". The notebook interface includes a menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". The left sidebar shows icons for file management and search. The main area displays the notebook content, which includes several code cells with Python code using the "response()" function to handle user queries. The status bar at the bottom indicates "0s completed at 11:44 AM".

```
[ ] response('Thanks')
    Happy to help!

[ ] response('book us a ticket')
    let me check for the availability

[ ] response('Metro station near me')
    Akurli metro station

▶ response('Can i pay using Mastercard')
↳ We accept VISA, Mastercard and Paypal

[ ] response('What is your location')
    We are located in Kandivali, Mumbai

[ ] response('Payment using cash')
    We accept most major credit cards, and Paypal

[ ] response('how to get travel tips')
    Always pack extra socks!
```


References

- Shafiee, M. M., Rahimzadeh, S., & Haghighizade, R. (2016). The effect of implementing SEO techniques and websites design methods on e-tourism development: A study of travel agencies e-tourism websites. 2016 10th International Conference on e-Commerce in Developing Countries: With Focus on e-Tourism (ECDC). doi:10.1109/ecdc.2016.7492963
- Aw Yoke Cheng, & Ab Hamid, N. R. (2011). Behaviour and preferences in browsing the travel and tourism websites. 2011 IEEE Colloquium on Humanities, Science and Engineering. doi:10.1109/chuser.2011.6163731
- Smart Travel Planner: A mashup of travel-related web services. 2013 International Conference on Current Trends in Information Technology (CTIT). doi:10.1109/ctit.2013.6749499
- Sebastia, L., Garcia, I., Onaindia, E., & Guzman, C. (2008). e-Tourism: A Tourist Recommendation and Planning Application. 2008 20th IEEE International Conference on Tools with Artificial Intelligence. doi:10.1109/ictai.2008.18
- Barranco M.J., Noguera J.M., Castro J., Martínez L. (2012) A Context-Aware Mobile Recommender System Based on Location and Trajectory. In: Casillas J., Martínez-López F., Corchado Rodríguez J. (eds) Management Intelligent Systems. Advances in Intelligent Systems and Computing, vol 171. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-30864-2_15
- Pazzani M.J., Billsus D. (2007) Content-Based Recommendation Systems. In: Brusilovsky P., Kobsa A., Nejdl W. (eds) The Adaptive Web. Lecture Notes in Computer Science, vol 4321. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-540-72079-9_10
- De Nart D., Ferrara F., Tasso C. (2013) Personalized Access to Scientific Publications: from Recommendation to Explanation. In: Carberry S., Weibelzahl S., Micarelli A., Semeraro G. (eds) User Modeling, Adaptation, and Personalization. UMAP 2013. Lecture Notes in Computer Science, vol 7899. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-38844-6_26

Thank You...!!