

CO303 DATABASE MANAGEMENT SYSTEMS LAB

A REPORT ON THE PROJECT ENTITLED

“Traveling Mamas”



SUBMITTED BY

Rahul Kumar - 171CO133

Rishi Sharma - 171CO135

V SEMESTER B-TECH

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA,
SURATHKAL**

2019-2020

INDEX

S.No	CONTENT	PAGE NUMBER	
1	Abstract	3	
2	Introduction	3	
3	Database Design	5	
	3.A	ER Diagram	5
	3.B	Relational Schema	6
	3.C	Normalized tables	7
4	Modules	8	
5	Tools	16	
6	Results	16	

1. ABSTRACT

This Project aims at solving the problem of travellers where they can book hotels, flights and find their best destination for travelling at one place.

In current scenario, travelers have to book their flights, hotels from different websites, we proposed a fully modular approach to book their hotels and flights at one place conveniently as much as possible the model tries to overcome all the shortcomings of a traditional websites where travellers have to book flights, hotels and destinations separately.

2. INTRODUCTION

We have built this project keeping in mind a common shortcoming of any organisation which is often neglected. Our project was inspired when we saw the **Yatra.com** website which do not include all the functionalities which is provided by our project **The Traveling Mamas** like destination booking..etc.

Hence we decided to build a web app that would be an all in one portal where a traveller can join by signing into the website. If someone is not sure about where to go, they can visit the destination information page where they will find exciting things about that particular Destinations and get to know more about where to travel which will help them to select the best destination for their travel trip.

Our web application is based on Django using Python and the database is My SQL. This web application is a full-fledged portal for booking hotels, flights and finding destination for their travel.

Our aim is to minimise the effort required to find the best destination for their travel trip and they can book flights and hotels at the same time from the same website. We have used cookies and sessions in order to ensure that the user is safely authenticated and the bookings are valid.

Our application has been designed to be simple for the end-user not involving any learning curve. We have divided the bookings for Indians and foreigners. For foreigners, since they do not know about the country we have provided special guide and assistance. We had also included the blog portion of the earlier travellers who shared their story of how they got their best destination with the help of our website and this can help other travellers also.

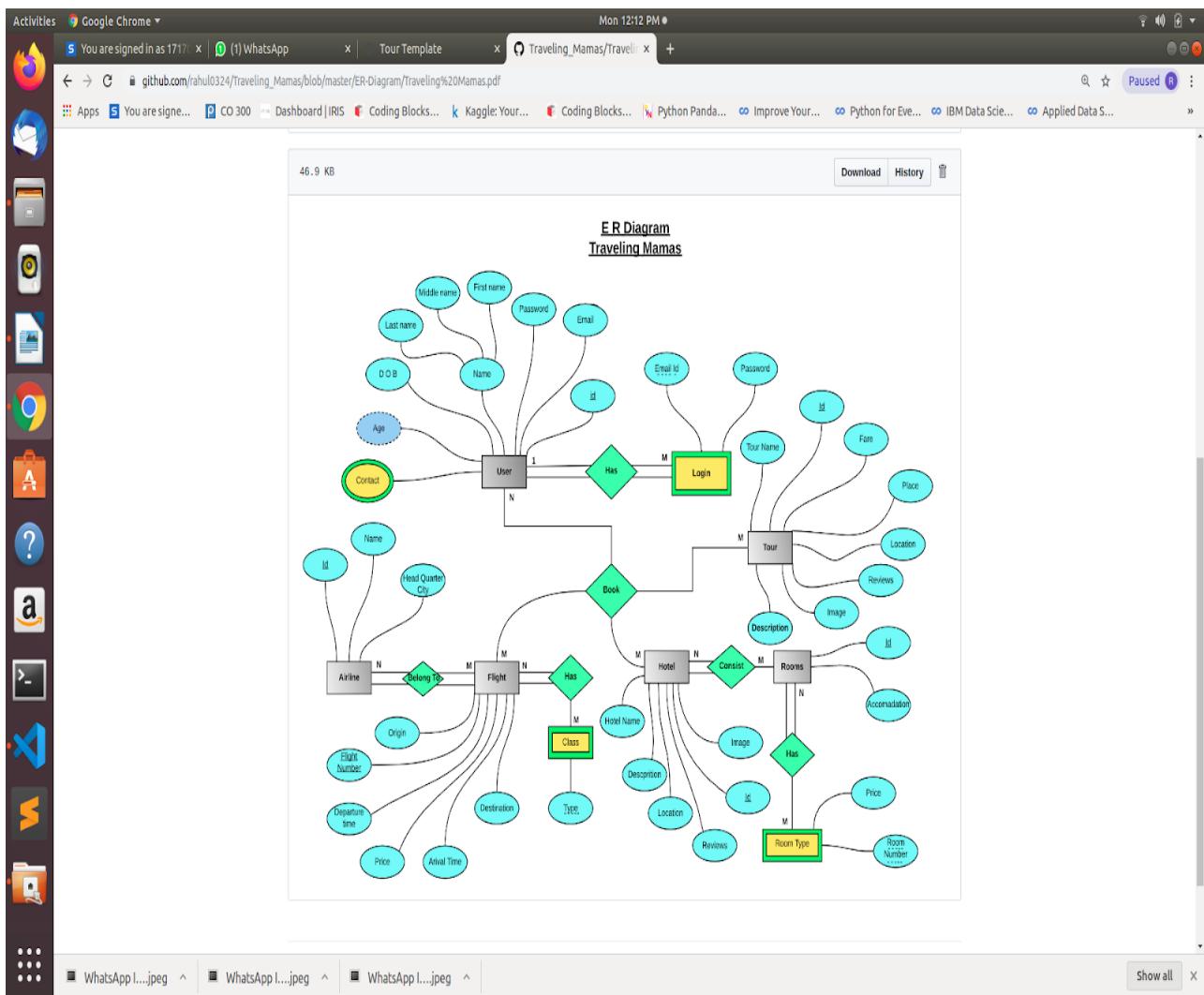
We had included **About Us Page** which includes the details about us from this details anyone who is having any issue regarding their hotel booking, flight booking, booking their destination or they want to give any feedback regarding the website or our services because of any glitch in our website or any other problem they can contact us directly.

We have also included **Newsletter features** which ask the customer to enter their emails so that they can remain updated with the latest offers of travelling, booking flights or booking hotels on our website. In the email we include offers, stories of earlier travellers, trending destinations and various other things. This feature will help the clueless travellers who want to travel but don't have any idea where to travel.

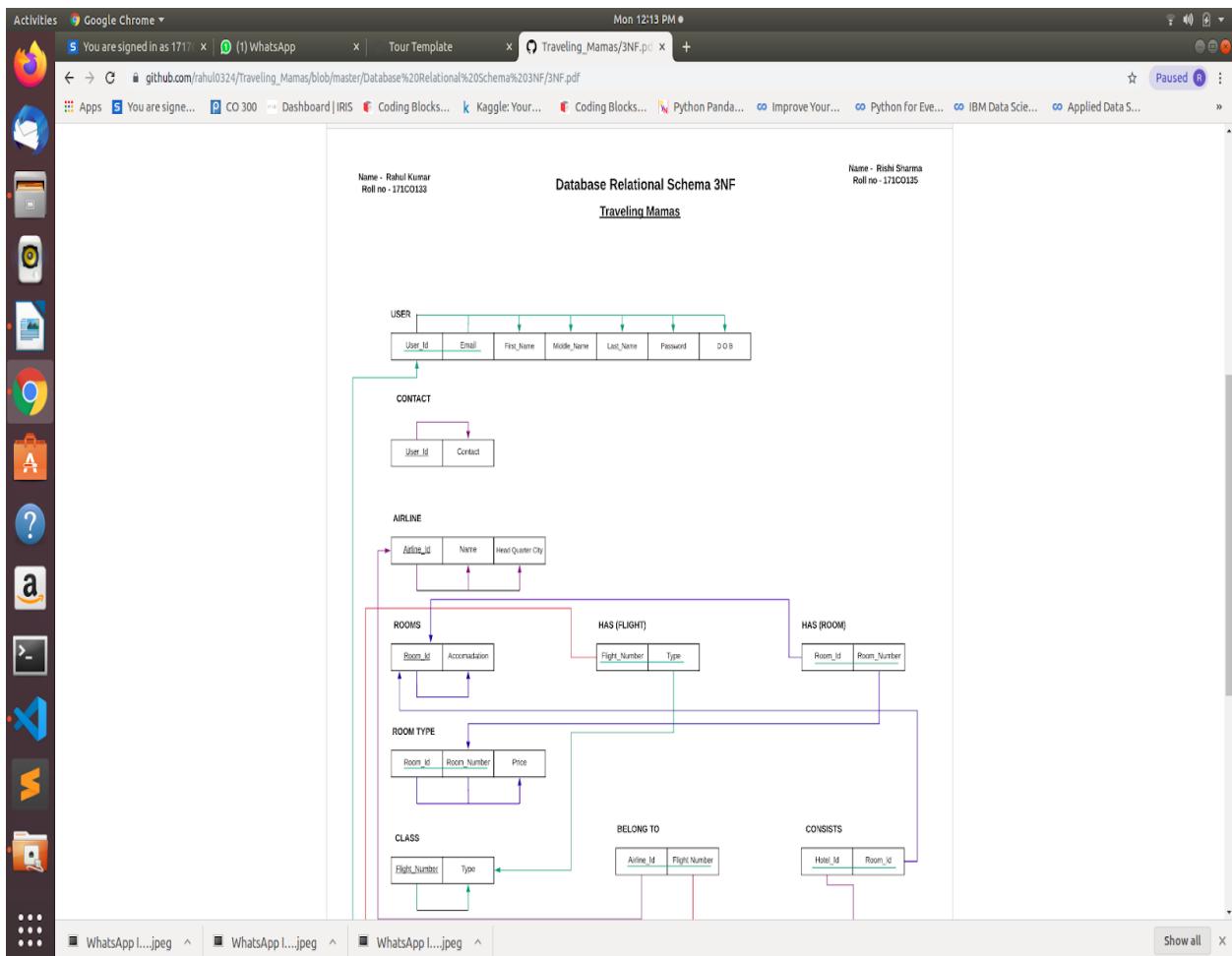
We are taking the queries and processing it in several different tables and updating the required tables from time to time. We have taken different tables in order to maintain the third normal form. We have hence maintained the simplified version of the tables that are required to fulfil the demand for this application. In the backend, we are calling different APIs in order to render different objects and store data in the database.

3. DATABASE DESIGN

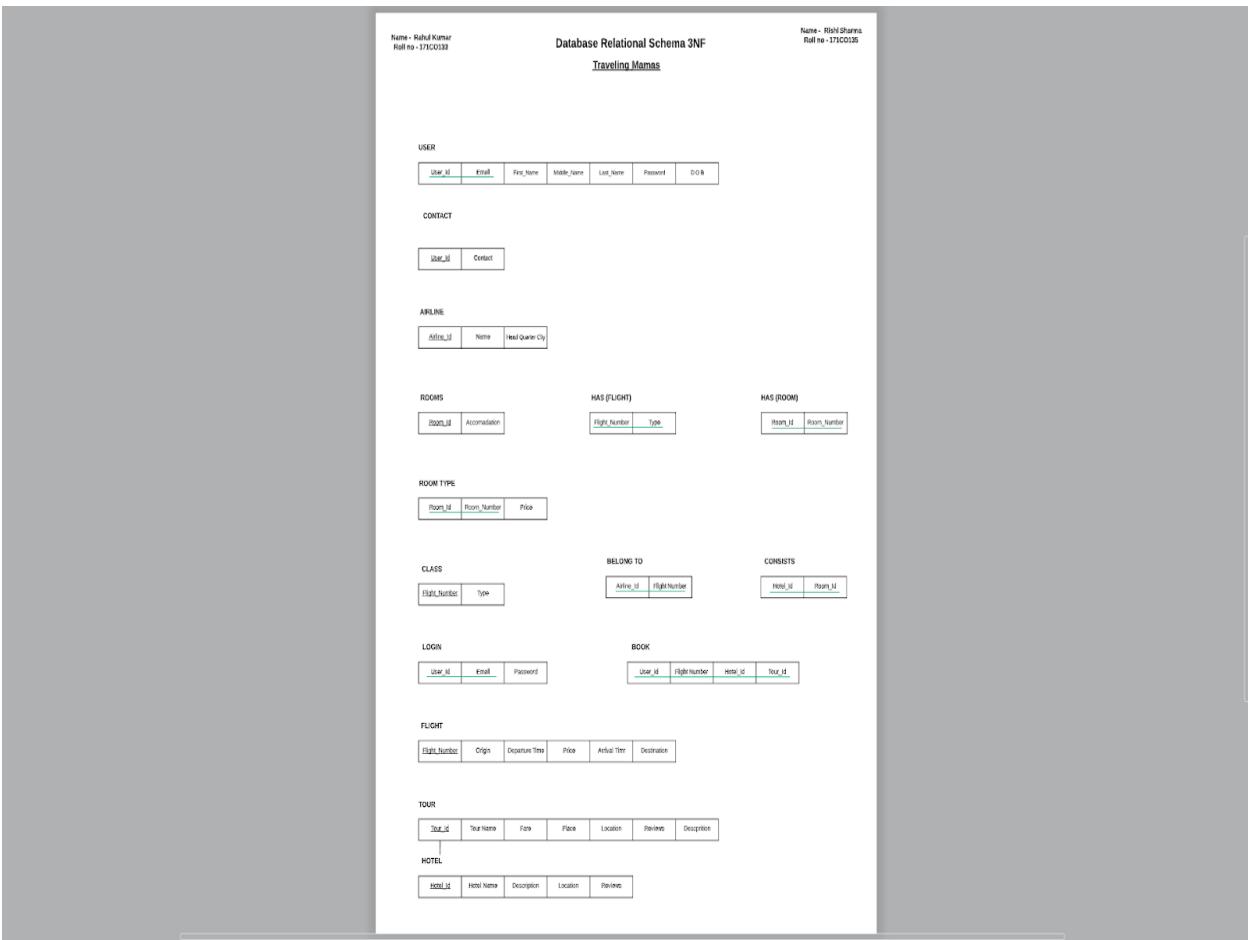
3.A ER DIAGRAM



3. B RELATIONAL SCHEMA

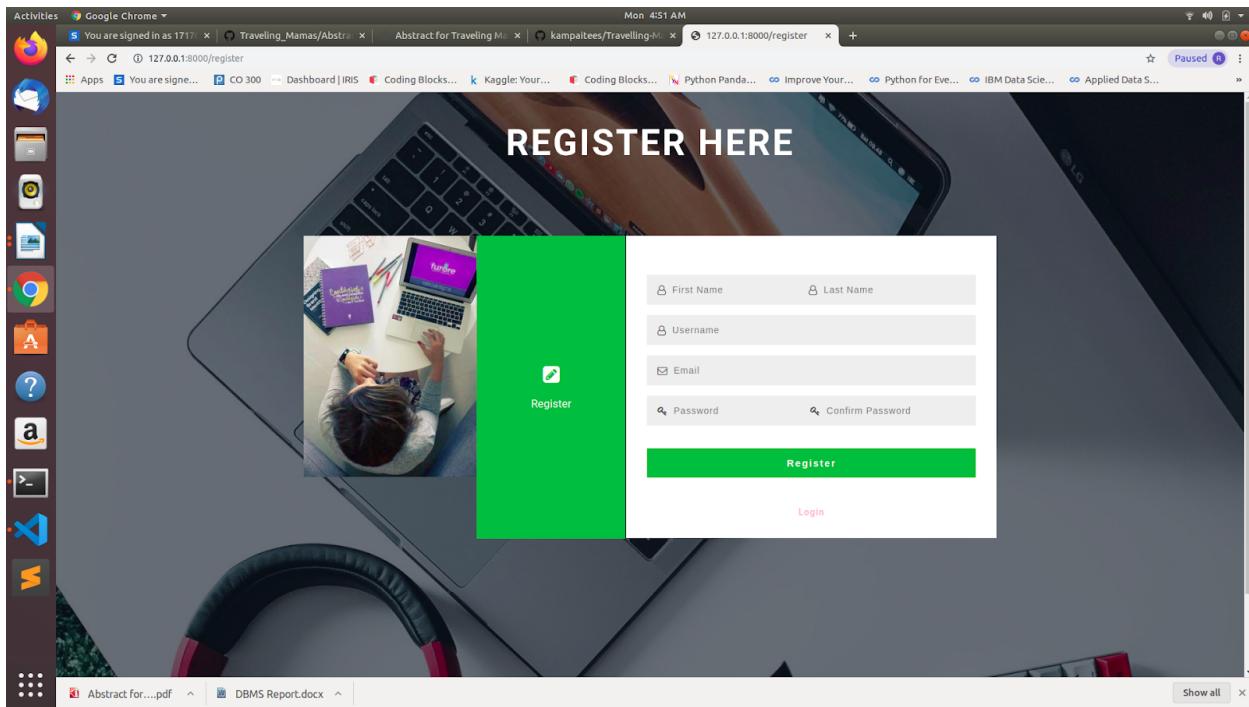


3.C NORMALIZED TABLES

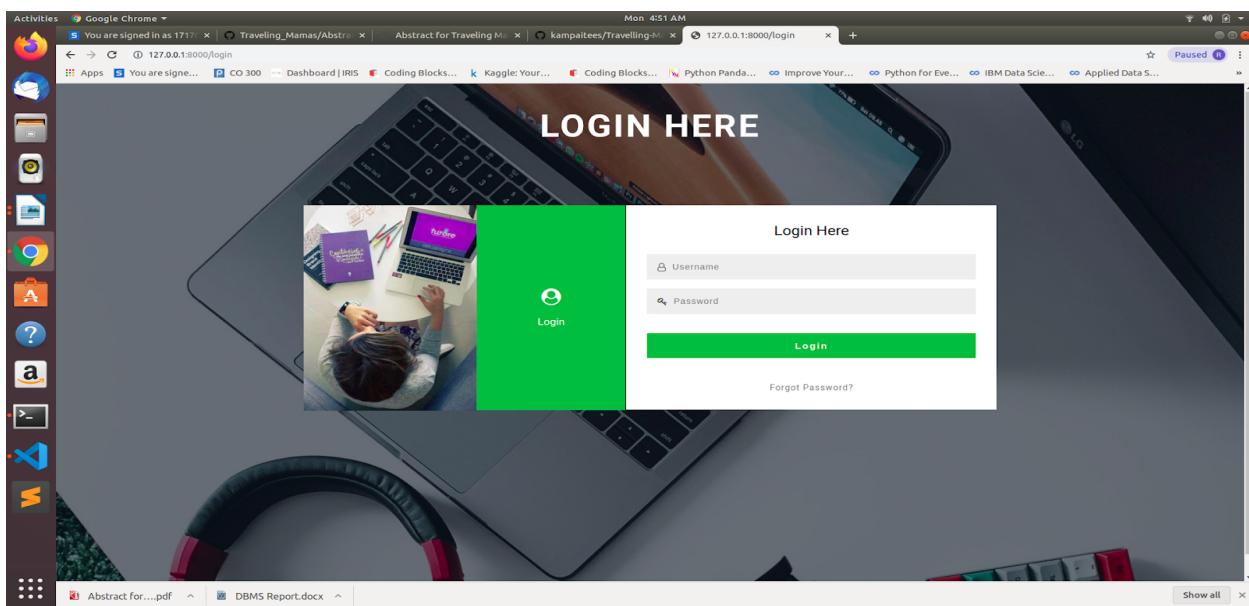


4. MODULES

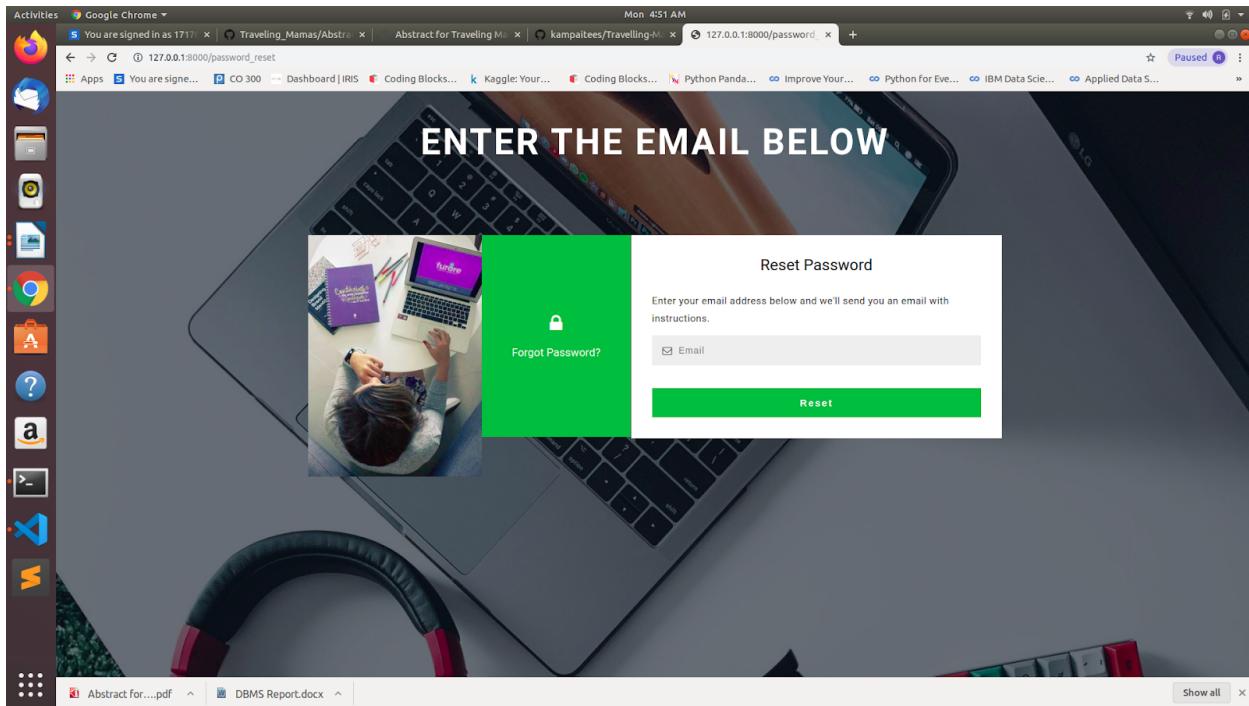
Register



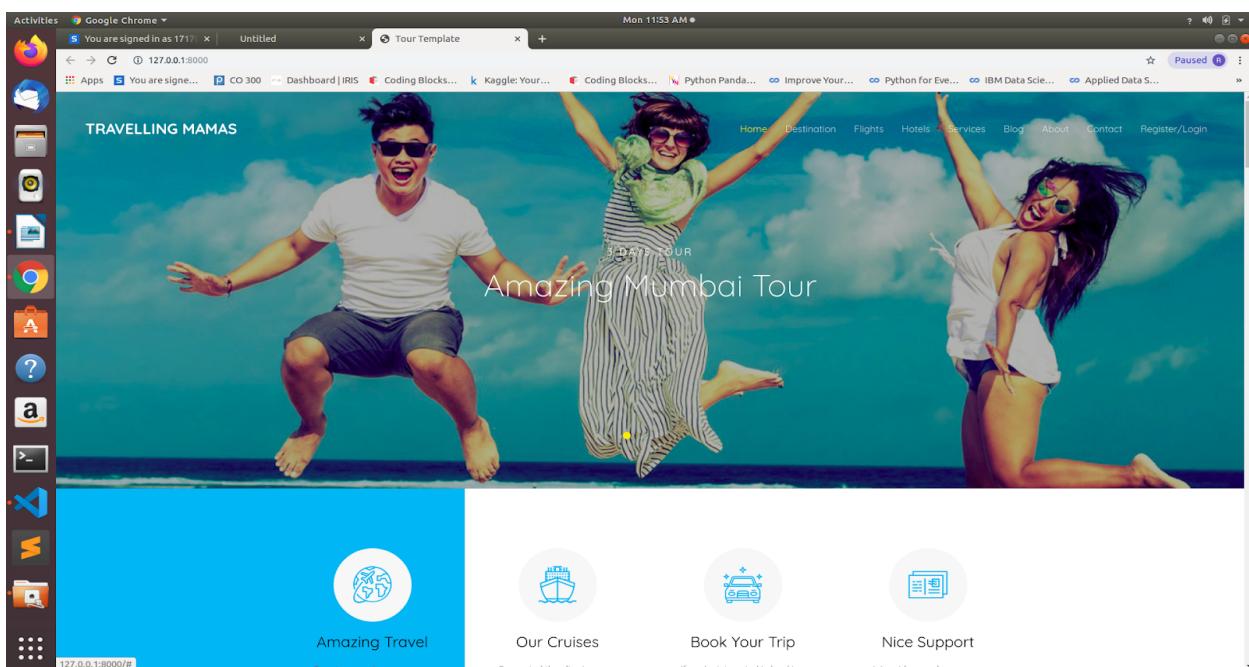
Login



Forgot Password



Home Page



Activities Google Chrome ▾ You are signed in as 17171 Untitled Tour Template + Mon 11:53 AM ●

Paused

Apps You are signed... CO 300 Dashboard | IRIS Coding Blocks... Kaggle: Your... Coding Blocks... Python Panda... Improve Your... Python for Eve... IBM Data Scie... Applied Data 5...

Popular Destination

There's something about arriving in new cities, wandering empty streets with no destination. I will never lose the love for the arriving, but I'm born to leave.

★★★★★ 4.5 Stars
COORG, KARNATAKA
Karnataka, India
850 INR

127.0.0.1:8000/coorg

Activities Google Chrome ▾ You are signed in as 17171 Untitled Tour Template + Mon 11:54 AM ●

Paused

Apps You are signed... CO 300 Dashboard | IRIS Coding Blocks... Kaggle: Your... Coding Blocks... Python Panda... Improve Your... Python for Eve... IBM Data Scie... Applied Data 5...

Most Popular Travel Cities

Travel is fatal to prejudice, bigotry, and narrow mindedness and many of our people need it sorely on these accounts.

LADAKH, KASHMIR
900 INR / person

MCLEOD GANJ, HIMACHAL PRADESH
600 INR / person

SHILLONG, MEGHALAYA
700 INR / person

GANGTOK, SIKKIM
800 INR / person

MUMBAI, INDIA

Mumbai is the commercial capital of India. It is also known as the city that never sleeps. Mumbai is the perfect blend of culture, customs and lifestyles. Mumbai is India's most cosmopolitan city, its financial powerhouse and the nerve center of India's fashion industry.

BEST TOURS CITY

Srinagar	Coorg	Indore
Shimla	Ooty	Patna
Namital	Alleppey	Delhi
Darjeeling	Dharamshala	Mangalore

[View All Places](#)

User Profile

The screenshot shows a web browser window titled "User Profile Summary". The URL in the address bar is "127.0.0.1:8000/myprofile". The page has a dark header with "Home", "My Profile", and "Log Out" buttons. On the left is a placeholder user icon. The main content area displays the following user information:

Username : travelling_mamas
Name : Rishi Sharma
Email : rishi94075@gmail.com
Phone : 9407525943

At the bottom are two buttons: "My Flight Booking" and "My Hotel Booking".



User Flight Summary

The screenshot shows a web browser window titled "My Flight Booking Summary". The URL in the address bar is "127.0.0.1:8000/myflightbooking". The page has a dark header with "Home", "My Profile", and "Log Out" buttons. On the left is a placeholder user icon. The main content area displays the following heading:

My Flight Booking Summary



User Hotel Summary

The screenshot shows a web browser window titled "My Hotel Booking Summary". The page displays a user profile picture placeholder and the title "My Hotel Booking Summary". Below the title is a yellow box containing the following booking details:

Name : Rishi Sharma
Hotel Name : Hotel Madaland
Room Type : Double Room
No of People : 3
Check In : 10/03/2019
Check Out : 10/16/2019
Total Price : 1999 INR
Phone : 9407525943
Email : rishi194075@gmail.com

The browser's address bar shows the URL "127.0.0.1:8000/myhotelbooking". The system tray at the bottom indicates the date as 11-11-2019.

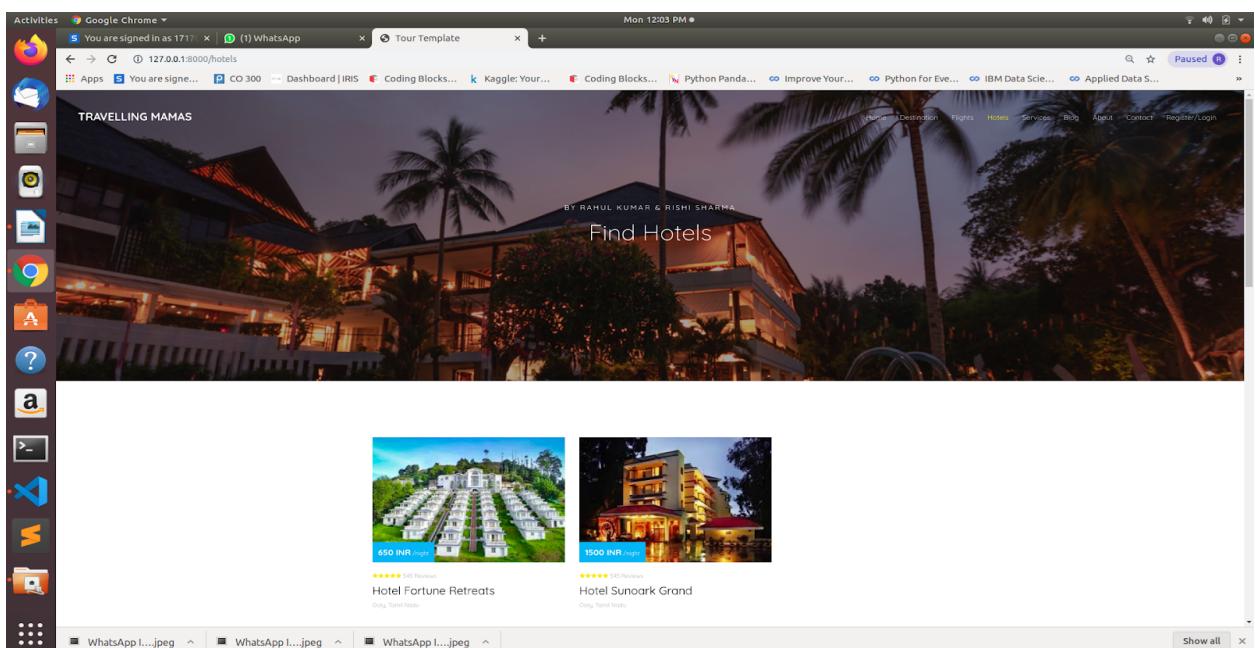
Flight Search

The screenshot shows a web browser window titled "Flight Ticket Booking". The page features a search form with fields for "From" (Type Departure City), "To" (Type Destination City), "Depart" (mm/dd/yyyy), "Flexible with date" (checkbox), "Class" (dropdown menu), and a "Search Flights" button. The background of the page is a photograph of an airplane flying through clouds. The browser's address bar shows the URL "127.0.0.1:8000/flight_search". The system tray at the bottom indicates the date as 11-11-2019.

Flight Booking

The screenshot shows a flight booking form titled "FLIGHT BOOKING FORM" displayed in a browser window. The form is set against a background of a sunset over an airplane wing. The form fields include "Booking Details" (From, Preferred Airline, Departure Date, Adults(12+ Yrs), Child(0-11 Yrs)), "Personal Details" (Full Name, Phone Number, Email), and buttons for "Submit" and "Clear Form". The browser's activity bar shows multiple tabs and windows, including WhatsApp and other development-related applications.

Hotels



Types of Rooms

Activities Google Chrome You are signed in as I717... 127.0.0.1:8000/hotel-room Tour Template Mon 12:07 PM ● Paused

Various Types of Rooms

FAMILY ROOM
600 INR / night

Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

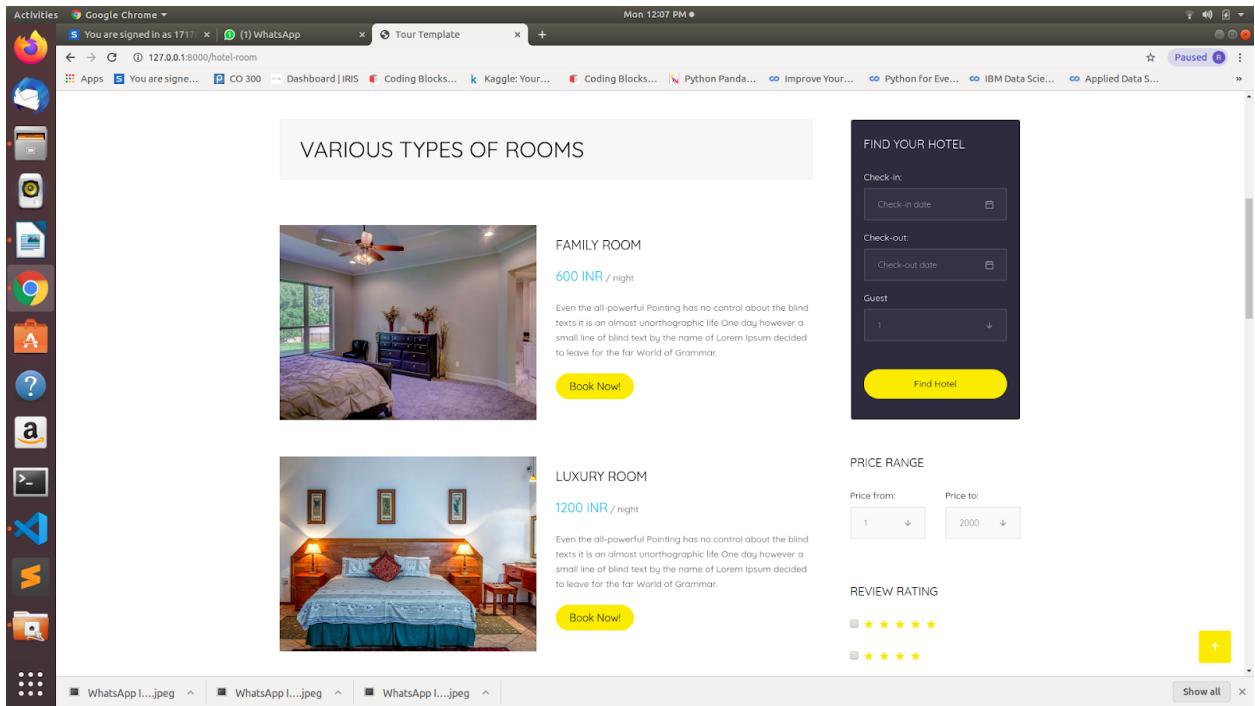
LUXURY ROOM
1200 INR / night

Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

PRICE RANGE
Price from: 1 Price to: 2000

REVIEW RATING
 ★ ★ ★ ★ ★
 ★ ★ ★ ★
 ★ ★ ★

Show all X



Activities Google Chrome You are signed in as I717... 127.0.0.1:8000/hotel-room Tour Template Mon 12:07 PM ● Paused

DOUBLE ROOM
1999 INR / night

Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

SUITE ROOM
2499 INR / night

Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

SUPERIOR DOUBLE ROOM
3499 INR / night

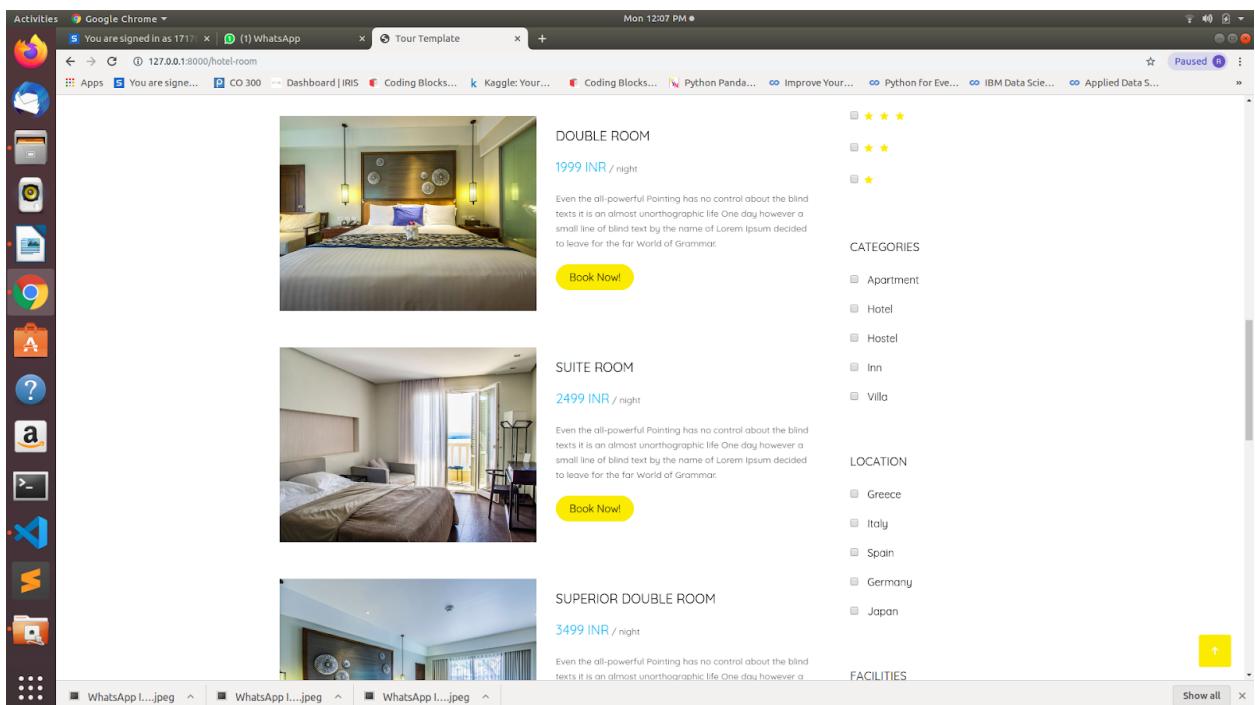
Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

CATEGORIES
 Apartment
 Hotel
 Hostel
 Inn
 Villa

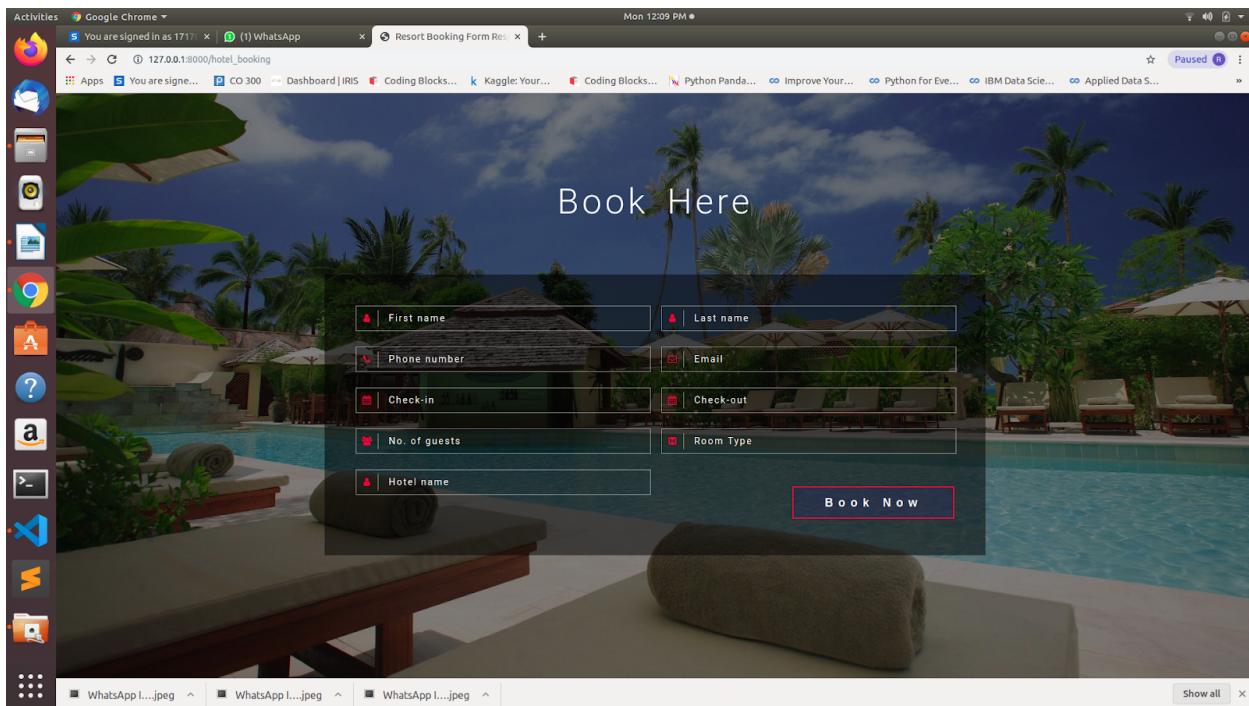
LOCATION
 Greece
 Italy
 Spain
 Germany
 Japan

FACILITIES

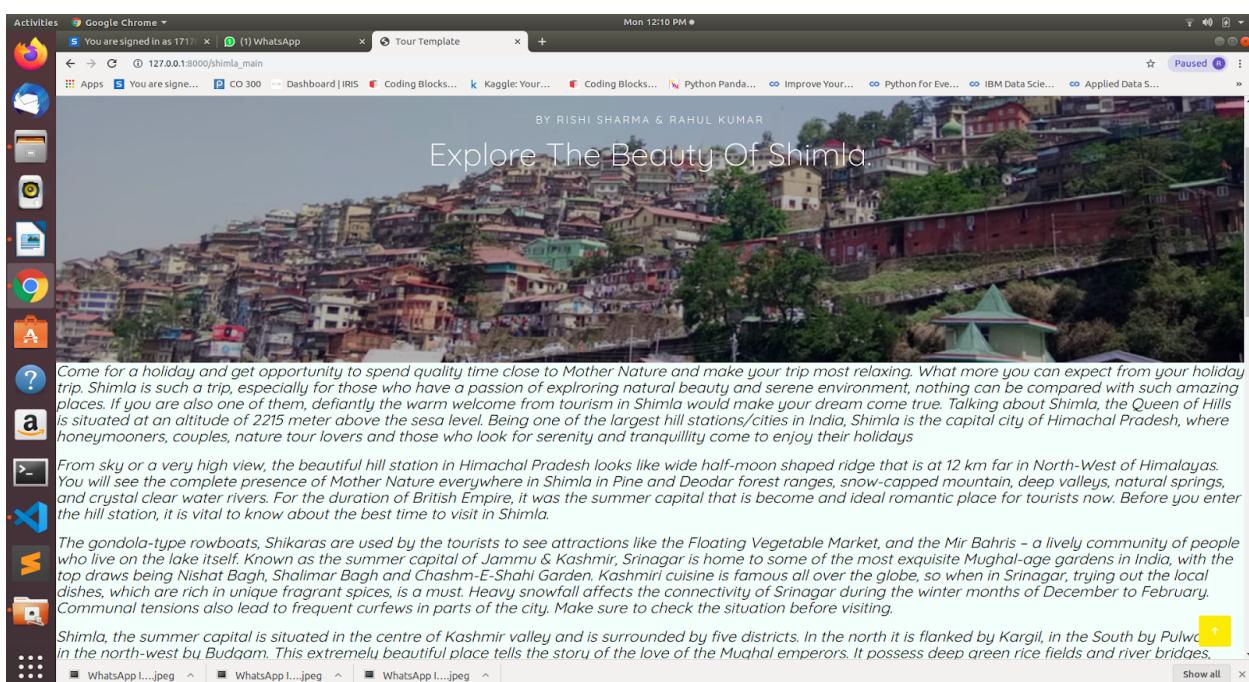
Show all X



Hotel Booking



Destinations



5. TOOLS

FRONT END TOOLS

We have Bootstrap, HTML, CSS and Javascript as front end technologies.

We have also used jquery in order to interact with the front end.

EJO is a module available in Django which helped us to dynamically render user-specified pages such as displaying the name of the user logged in along with other details required.

BACKEND TOOLS

We have used Django, Python application for the server logic of our application. We have used MySQL database which is being interacted by Sequelize library of Django along with MySQL module.

We have used express-session to ensure simplified user sessions which have a time limit to ensure secure usage along with encrypted passwords, correct emails and secure encryption.

We have used the MVT - Model Views Template in order to ensure that the server logic, database logic and the views remain separated in order to build a sophisticated web app

SQL Workbench was also used in order to cross-check valid database entries and postman in order to check if all APIs work correct or not.

6. RESULTS

Conclusion - We were able to create a full-fledged web app which is using MySQL and Django which can be installed by any user and be used by travellers to book their flights, hotels and find the best destination for their travel trip.

We have provided the screenshots which describe how to book a hotel from our web app with a simplified UI.

The image displays two screenshots of a web application named "Travelling Mamas".

Top Screenshot (Mon 11:53 AM): This is the homepage of the website. It features a large banner with three people jumping joyfully against a blue sky and ocean background. The banner text includes "3 DAYS TOUR" and "Amazing Mumbai Tour". Below the banner, there's a navigation bar with links like Home, Destination, Flights, Hotels, Services, Blog, About, Contact, Register/Login. To the left is a vertical sidebar with various icons for different services. A message at the bottom left says "Generated this live in chrome".

Bottom Screenshot (Mon 12:03 PM): This screenshot shows the "Find Hotels" section. It features a large image of a modern hotel building at night with palm trees. Below the image, there are two hotel listings:

- Hotel Fortune Retreats:** Shows a photo of a white building complex with green lawns. Price: 650 INR/night. Rating: 4.5 stars (545 reviews).
- Hotel Sunoark Grand:** Shows a photo of a modern building with red roofs. Price: 1500 INR/night. Rating: 4.5 stars (145 reviews).

The browser address bar shows the URL "127.0.0.1:8000/hotels".

Activities Google Chrome ▾ Mon 12:07 PM ●

You are signed in as 17170 | WhatsApp Tour Template +

Check-in: Check-in date

Check-out: Check-out date

Guest: 1 Find Hotel

Book Now!

PRICE RANGE

Price from: 1 Price to: 2000

REVIEW RATING

Book Now! 

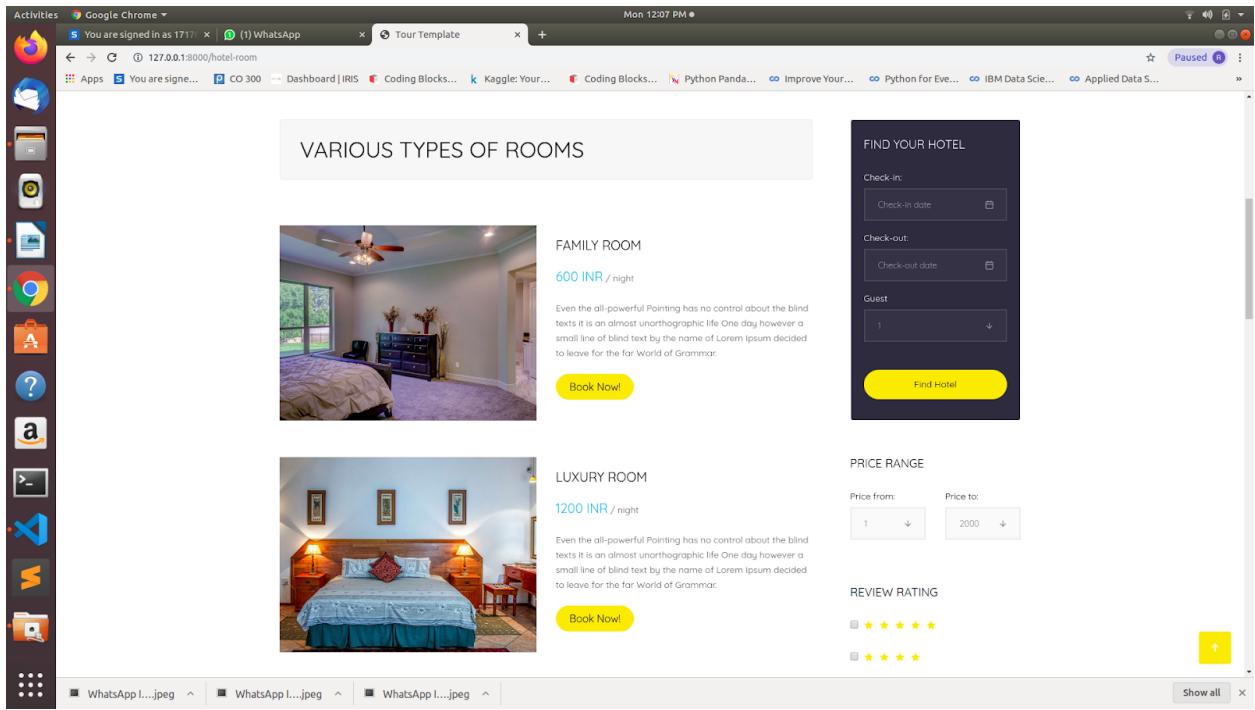
Various Types of Rooms

FAMILY ROOM
600 INR / night

Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.

LUXURY ROOM
1200 INR / night

Even the all-powerful Pointing has no control about the blind texts it is an almost unorthographic life One day however a small line of blind text by the name of Lorem Ipsum decided to leave for the far World of Grammar.



Activities Google Chrome ▾ Mon 12:09 PM ●

You are signed in as 17170 | WhatsApp | Resort Booking Form Res... +

First name Last name

Phone number Email

Check-in Check-out

No. of guests Room Type

Hotel name Book Now

Book Here

