

WebX Lab CA - Report

Name of Student	Rohan Lalchandani
Class Roll No	D15A_25
D.O.P.	
D.O.S.	
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TITLE: Smart Travel Planner

PROJECT DESCRIPTION

The Smart Travel Planner is a comprehensive Flask-based web application designed to streamline and enhance the travel planning experience. The application features a robust architecture with distinct components handling user authentication, trip management, destination exploration, and social interactions.

At its core, the application utilizes MongoDB for data persistence, managing various collections including users, destinations, trips, and travel tips. The backend is built with Flask, running on port 5000, and implements a well-structured MVC (Model-View-Controller) pattern. The models are clearly defined in models.py, handling entities such as User, Trip, Destination, and JournalEntry with proper data validation and relationships.

Key features include comprehensive trip planning capabilities, allowing users to create detailed itineraries, track expenses, and maintain travel journals. The social aspects of the platform enable trip sharing and collaboration through a well-implemented invitation system. The application also integrates weather information for destinations and provides curated travel tips categorized by topics such as packing, safety, and local customs.

TECHNOLOGIES USED

1. Frontend:

- HTML/CSS/JavaScript
- Bootstrap (Dark theme)
- Font Awesome icons
- Chart.js for data visualization

2. Backend:

- Python 3.11
- Flask web framework
- Flask extensions:
 - Flask-Login for authentication
 - Flask-WTF for forms
 - Werkzeug for utilities
 - Gunicorn as WSGI server

3. Database:

- Custom MongoDB-like implementation (mongo_like.py)
- JSON file storage for data persistence

4. APIs/Services:

- Weather API integration
- Repl Auth for authentication

FEATURES IMPLEMENTED

1. User Authentication & Management:

- User registration and login
- Password reset functionality
- Profile management
- User dashboard

2. Trip Planning:

- Create and manage trips
- Detailed itinerary planning
- Day-by-day activity scheduling
- Budget tracking and expense management

3. Destination Management:

- Browse destinations
- Search functionality
- Detailed destination information
- Weather information integration
- Attraction listings

4. Travel Journal:

- Create journal entries
- Add photos to entries
- Track locations and moods
- Download journal entries
- Share travel experiences

6. Additional Features:

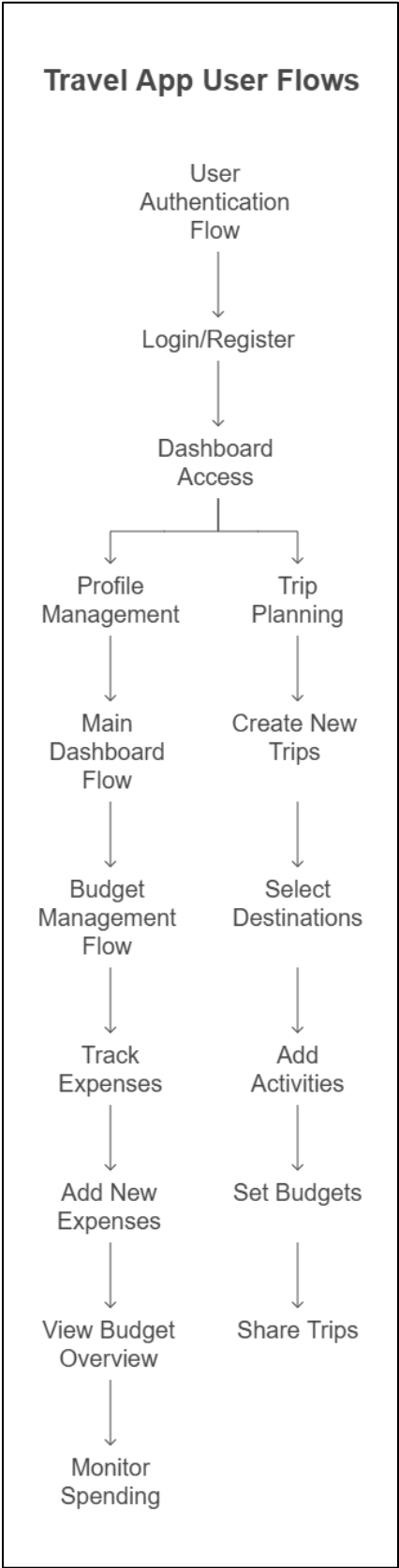
- Weather integration for destinations
- Travel tips and advice section
- Budget tracking and analysis
- Interactive timeline view
- Responsive dark theme design

7. Data Management:

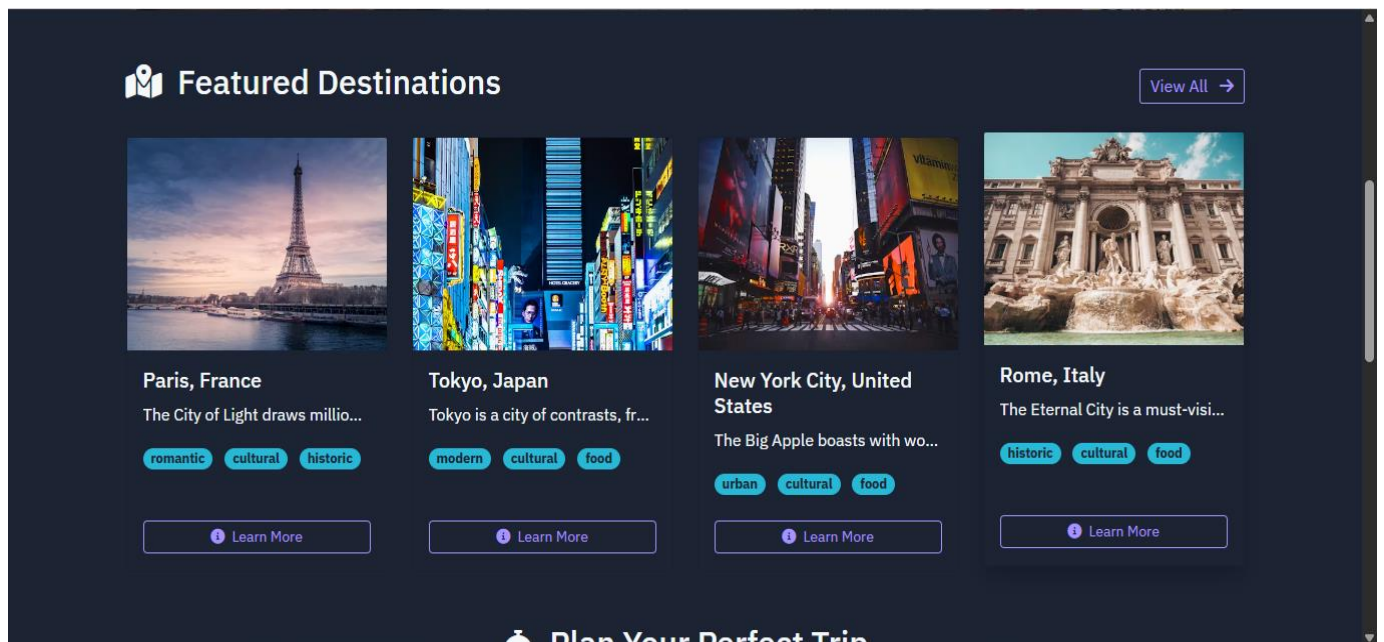
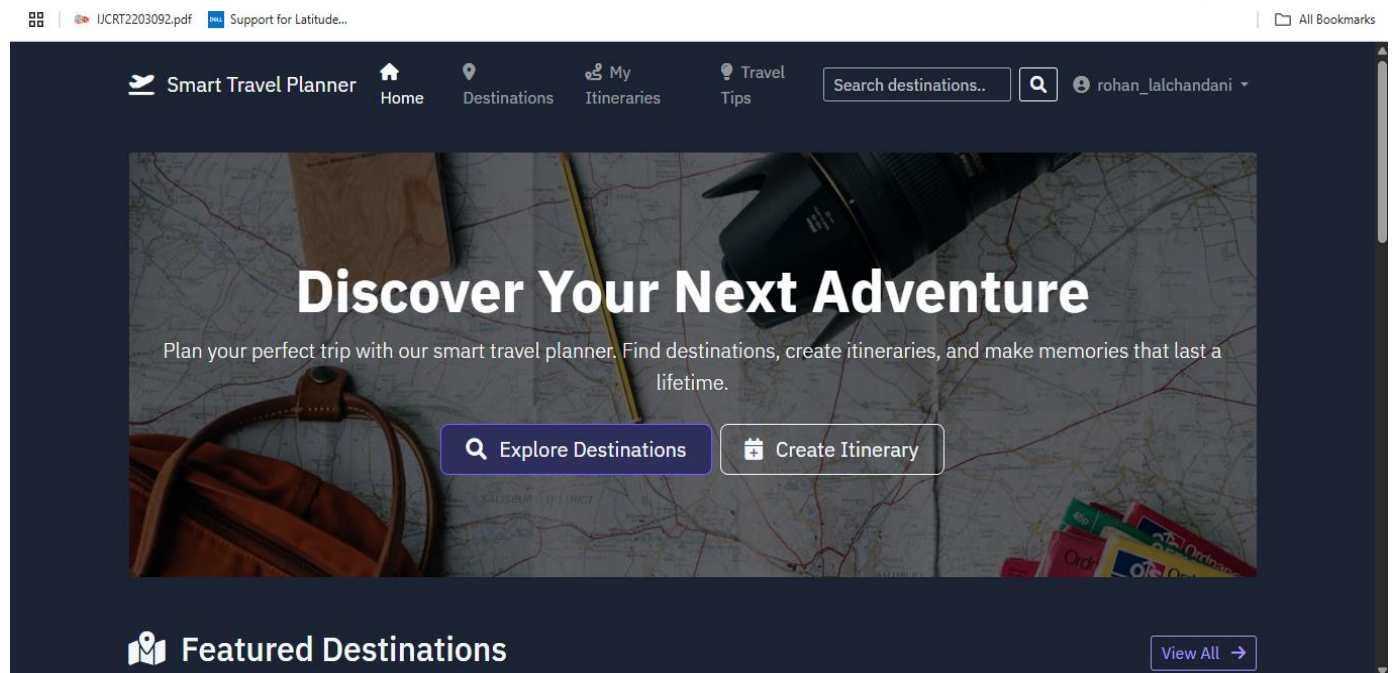
- MongoDB-like database implementation
- JSON file-based data persistence
- User data privacy controls
- File upload handling

GITHUB LINK - https://github.com/Rohan-Lalchandani08/WebX_CA

Flow Diagram:



OUTPUT : Homepage:



Plan Your Perfect Trip



Discover Destinations

Explore amazing destinations around the world. Get detailed information about attractions, best times to visit, and travel tips.

[Explore Now](#)

Create Itineraries

Build detailed day-by-day plans for your trips. Organize activities, set schedules, and keep all your travel plans in one place.

[Plan Now](#)

Check Weather

Get up-to-date weather information for your destinations. Plan activities with confidence knowing the forecast for your travel dates.

[View Weather](#)

Travel Tips & Advice

Access valuable tips for packing, safety, budget, and health. Make your travel experience smoother and more enjoyable with expert advice.

[View Travel Tips](#)[Explore Now](#)

Travel Tips & Advice

Access valuable tips for packing, safety, budget, and health. Make your travel experience smoother and more enjoyable with expert advice.

[View Travel Tips](#)

Smart Travel Planner

Plan your dream vacation with our easy-to-use travel planner. Discover destinations, create itineraries, and get travel tips all in one place.

Quick Links

[Home](#)
[Destinations](#)
[My Itineraries](#)
[Travel Tips](#)

Connect With Us

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Destinations Page:

Browser address bar: c39ba54e-b2a0-4be5-917e-946cfadbda00-00-5fn21cmhutuq.worf.replit.dev/destinations

Browser tabs: IJCRT2203092.pdf, Support for Latitude...

Navigation: Smart Travel Planner, Home, Destinations, My Itineraries, Travel Tips


Search: Search destinations..

User: rohan_lalchandani

Explore Destinations


Search by destination name, country, or tag...

Search




Paris, France

The City of Light draws millions of visitors every year with its unforgettable ambiance. Of course, ...



Tokyo, Japan

Tokyo is a city of contrasts, from ancient temples to ultramodern skyscrapers. It's a hub of cutting...



New York City, United States

The Big Apple boasts with world-famous attractions, diverse cultures, iconic landmarks, and electric...

Create Itineraries Page:

Navigation: Smart Travel Planner, Home, Destinations, My Itineraries, Travel Tips

Search: Search destinations..

User: rohan_lalchandani

My Itineraries

+ Create New Itinerary

Summer vacation in Paris

Paris

2025-04-21 to 2025-04-23

3 days planned

View Edit Delete

Smart Travel Planner

Plan your dream vacation with our easy-to-use travel planner. Discover destinations, create itineraries, and get travel tips all in one place.

Quick Links

[Home](#)

[Destinations](#)

[My Itineraries](#)

[Travel Tips](#)

Connect With Us

f t i p

Travel Tips and Advice Page:

★ All Categories

> Packing

> Safety

> Budget

> Health

💡 Travel Tips & Advice

Make your travels smoother and more enjoyable with these expert tips and advice. From packing efficiently to staying safe abroad, we've got you covered with practical information.

“ Travel Quote

"The world is a book and those who do not travel read only one page."

- Saint Augustine

🧳 Essential Packing Tips

✂ Roll clothes instead of folding to save space and prevent wrinkles

✂ Pack a small first-aid kit with basic medications

✂ Bring a universal power adapter for international travel

✂ Use packing cubes to organize your suitcase

✂ Always pack a change of clothes in your carry-on

★ All Categories

> Packing

> Safety

> Budget

> Health

🛡 Staying Safe While Traveling

✂ Keep digital copies of important documents

✂ Share your itinerary with a trusted friend or family member

✂ Research common scams at your destination

✂ Register with your country's travel advisory program

✂ Know basic phrases in the local language, especially for emergencies

💰 Money-Saving Travel Tips

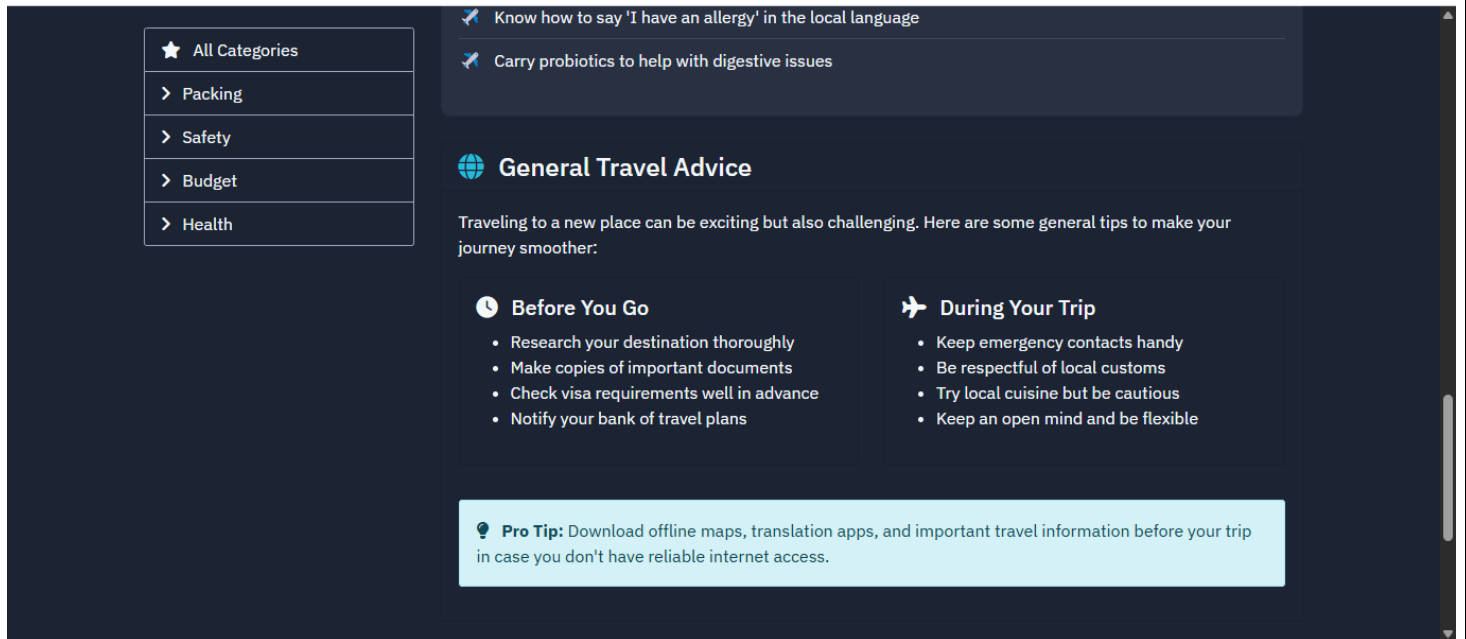
✂ Book flights in incognito mode to avoid price increases

✂ Use local transportation instead of taxis when possible

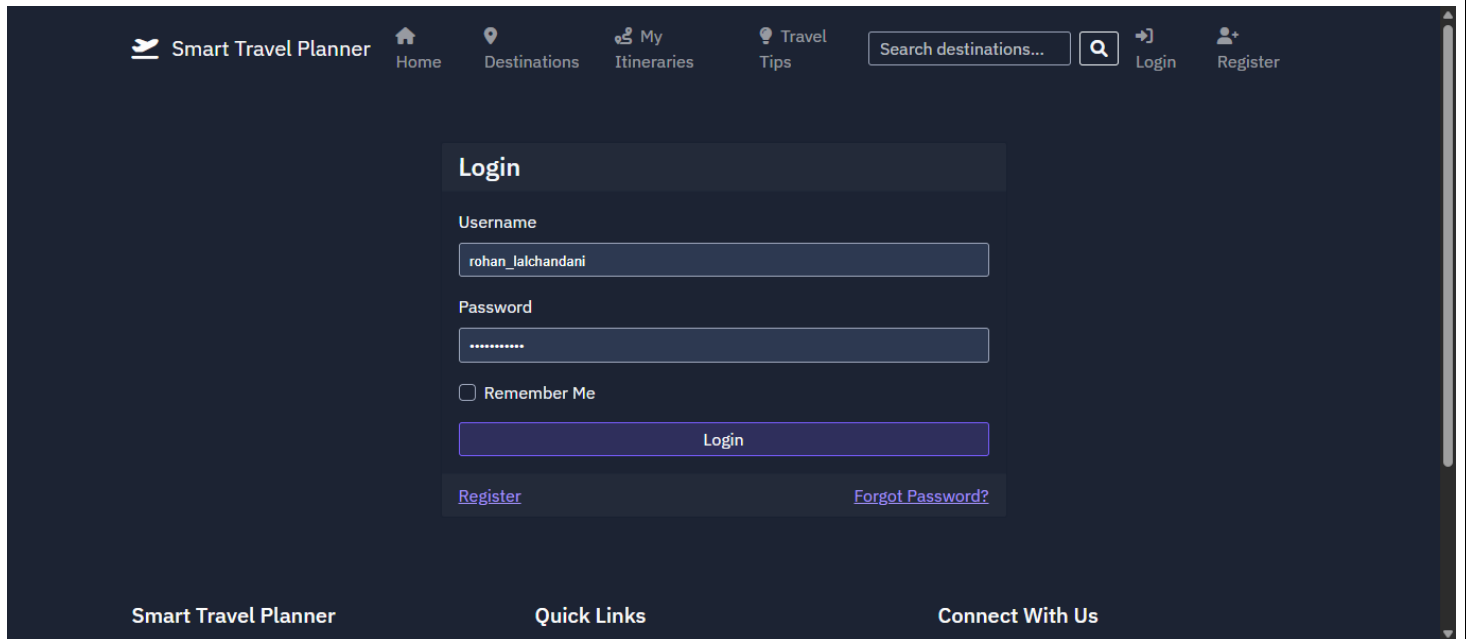
✂ Eat where the locals eat for better prices and authentic food

✂ Consider accommodations with kitchen access to save on meals

✂ Research free activities and attractions at your destination



Login/ Sign Page:



Profile Page:

Smart Travel Planner

Home

Destinations

My Itineraries

Travel Tips

Search destinations..

rohan_lalchandani

Profile

rohan_lalchandani

2022.rohan.lalchandani@ves.ac.in

Member since: 2025-04-17T08:15:13.876956

Edit Profile

Change Password

Stats

Upcoming Trips

+ New Trip

You don't have any upcoming trips.

+ Plan a Trip

Recent Activity

No recent activity

User Dashboard Page:

Smart Travel Planner

Home

Destinations

My Itineraries

Travel Tips

Search destinations..

rohan_lalchandani

Trip Planner Dashboard

Upcoming Trips

0

View Details

Countries Visited

0

View Map

Travel Budget

\$0

View Budget

Trip Days

0

View Calendar

Trip Timeline

+ New Trip

You don't have any upcoming trips.

+ Plan a Trip

Trip Categories

Family

Solo

Couple

Business

Friends

CONCLUSION:

The Smart Travel Planner is a comprehensive web application that streamlines trip planning and management through an intuitive interface. It offers essential features including destination exploration, detailed itinerary creation, expense tracking, travel journal capabilities, and collaborative trip planning. Users can manage their travel budgets, track expenses, maintain digital travel journals, and even share trip plans with fellow travelers. The application also provides valuable travel tips, weather information, and helps users stay organized with pre-trip checklists. With its dark-themed UI, interactive charts, and responsive design, the Smart Travel Planner serves as a one-stop solution for both solo travelers and groups looking to plan and document their adventures efficiently.