Test Plan Creation

Test Plan for "Travel Buddy"

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Introduction

- **Objective**: To test "Travel Buddy" application and verify if all the functionalities are working and the quality meets requirement.

Scope of Testing

Testing will be performed for the following features,

- **Destination Exploration**: Browsing destinations, viewing detailed information on attractions, accommodations, and amenities.
- **Trip Planning Tools**: Creating, editing, and managing travel itineraries, activities, accommodations, and transportation details.
- **Accommodation Booking**: Searching and booking accommodations directly from the application.
- **Activity Discovery**: Exploring various activities and experiences available at the destinations.
- **User Profiles**: Saving preferences, favourite destinations, and past trips for easy reference.
- **Upcoming Features**:
  - **Interactive Maps**: Visualizing travel plans and destination highlights.
  - **Social Integration**: Connecting with friends, sharing experiences, and discovering recommendations.
- **Integrations**:
  - **Weather Forecast**: Accessing real-time weather information for selected destinations.
  - **Currency Converter**: Converting currencies and planning travel budgets.

Testing Objectives

- Verify that all features are working as intended.
- Find and document any bugs or issues.
- Test if the application is user-friendly.
- Validate the performance and security of the application.

Testing Approaches

- **Functional Testing**: Verify each feature works as expected based on the requirements.
- **Usability Testing**: Verifying if the application is easy to use and user-friendly.
- **Integration Testing**: Testing application integration with weather forecasting and currency conversion tools.
- **Regression Testing**: Ensuring new updates do not break existing functionality.
- **Exploratory Testing**: Exploring the application to find unexpected issues.
- **Performance Testing**: Testing if the application is fast and stable under different conditions.
- **Security Testing**: Testing the application is secure from threats and data breaches.

Test Environment

- **Browsers**: Chrome, Safari, Edge
- **Operating Systems**: Windows, macOS, Linux
- **Devices**: Desktop/Laptop, Tablet, Mobile (iOS and Android)

Testing Resources
• **QA Lead** will be responsible for supervising the testing process, ensuring that the test plan is followed and coordination with the development team is frequent.
• **QA Team Members** will be executing test cases, reporting bugs, and performing exploratory testing.
Testing Schedule
• **Test Plan Creation**: 1 day
o Creating test plan with details required for application testing process.
• **Test Case Development**: 2 days
o Team will develop detailed test cases for each feature.
• **Test Execution**: 3 days
o Execute test cases, document results, and report bugs.
• **Bug Reporting**: Will be created during the testing process
o Use a bug tracking tool (example, JIRA) to log and manage bugs.
• **Regression Testing**: 1 day
o Perform regression testing to uncover any issues broken functionality due to new development work.
Assumptions
• **Development Completeness**: All features listed in the test plan are fully implemented and ready for testing.
• **Stable Environment**: The test environment (browsers, operating systems, and devices) is stable and configured correctly.
• **Test Data Availability**: Test data for all features is available and accurate.

Bug Reporting

Bug Report
Bug 1   **Title:** *Destination Information Not Loading*

Severity/Priority	High
Description	When users try to view detailed information about a destination, the screen fails to load and display a blank screen.
Expected Behaviour	The destination information screen should load and display details about attractions, accommodations and amenities.
Actual Behaviour	The screen remains blank, and no information is displayed.
Environment	Chrome, Windows (Desktop/Laptop)
Additional Notes	This issue duplicates consistently for multiple destinations.

Bug 2   **Title:** *Incorrect Currency Conversion from INR to USD*

Severity/Priority	Medium
Description	The currency converter tool provides incorrect conversion rates when converting currency value from INR to USD.
Expected Behaviour	The currency converter should provide accurate and latest conversion rates.
Actual Behaviour	The conversion rates are incorrect.
Environment	Safari, iOS (Tablet)
Additional Notes	This issue affects only INR to USD currency conversions tested.

Bug 3
Bug Title: *Weather Forecast Not Updating*

Severity/Priority	Low
Description	The weather forecast information is not updating in real-time, showing outdated weather data.
Expected Behaviour	The weather forecast should provide real-time and accurate weather information for selected destinations.
Actual Behaviour	The weather data displayed is from several days ago and does not update.
Environment	Chrome, Android (Mobile)
Additional Notes	This issue affects when the information that is auto update and instead shows old data.

Exploratory Testing

Exploratory Testing Report	
Project Name	Travel Buddy
Start Date/Time	28/09/2024 09:00 AM
End Date/Time	28/09/2024 01:00 PM
Total Testing Time	4 Hours
Tester Name	Priyanka Katkade
Test Environment	Chrome, Windows (Desktop) Safari, iOS (Tablet)

Approach	• Focusing on testing the new integrations and upcoming features. • Using a combination of ad-hoc testing and structured scenarios to find the issues. • Document findings and insights for further analysis and improvement.
Focus Area	• **Interactive Maps:** Check for usability and accuracy. • **Social Integration:** Test connectivity and sharing features. • **Weather Forecast:** Verify real-time data accuracy. • **Currency Converter:** Ensure correct conversions.
Test Scenarios Executed	• Navigating and interacting with the interactive maps. • Connecting with friends and sharing travel plans. • Checking weather forecasts for various destinations. • Converting currencies and planning budgets.
Issues Found	• Incorrect currency conversion from INR to USD. • Weather forecast not updating automatically after some time interval.
Insights Gained	• Interactive maps to be generally accurate but experienced slow loading times when zooming. • The weather forecast feature provided accurate information, but the data was not updated in real-time.
Recommendations	• Interactive maps require optimization of the map loading times when zooming to improve user experience. • In weather forecast screen we can enhance the visual presentation of weather data by adding icons to make it more user-friendly. • In currency conversion tool we can add a feature to display historical exchange rates, helping users make more informed budgeting decisions.