**Test Plan**

**1. Introduction**

* **Project Name:** ExploreX
* **Version:** 1.0
* **Author:** Anjali Devi
* **Date:** 04-03-2025
* **Purpose:** This document outlines the test plan for the ExploreX web platform, ensuring its functionality, usability, and reliability.

**2. Scope**

* **In Scope:**
  + User interface (HTML, CSS)
  + Trip planning functionality
  + Real-time temperature data retrieval (API fetch)
  + Responsive design across various devices
* **Out of Scope:**
  + Server-side functionalities (if any beyond API fetch)
  + Advanced user authentication (if not implemented)
  + Payment processing.

**3. Testing Objectives**

* Verify all functionalities of the trip planning platform.
* Ensure the user interface is intuitive and responsive.
* Validate the accuracy of real-time temperature data.
* Confirm compatibility across various devices and browsers.
* Verify that the website is user friendly.

**4. Testing Strategy**

* **Functional Testing:** To verify that all features work as expected.
* **Usability Testing:** To evaluate the user-friendliness of the interface.
* **Responsive Testing:** To ensure compatibility across different devices and screen sizes.
* **API Testing:** To validate the accuracy and reliability of the temperature data API.
* **Negative Testing:** To ensure the application handles invalid inputs and error conditions gracefully.

**5. Testing Environment**

* **Browsers:** Chrome, Firefox, Safari, Edge
* **Devices:** Desktop, Laptop, Tablet, Mobile (various screen sizes)
* **Operating Systems:** Windows, macOS, Linux, Android, iOS
* **Network:** Stable internet connection

**6. Test Deliverables**

* Test cases (spreadsheet)
* Test execution report
* Bug reports (if any)

**7. Entry and Exit Criteria**

* **Entry Criteria:**
  + The web platform is deployed and accessible.
  + The API for temperature data is functional.
  + Test cases are reviewed and approved.
* **Exit Criteria:**
  + All test cases are executed.
  + All critical and high-severity bugs are resolved.
  + The platform meets the defined testing objectives.

**8. Conclusion**:This document outlines a test plan for the ExploreX website to ensure it's functional, user-friendly, and reliable. It covers testing different features, devices, and potential errors. The goal is to find and fix problems before users do, leading to a better website.