**Test Plan (Weather App)**

**Project Name:** Weatherwise  
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**Date:** 25-Sep-2025

**1. Introduction:**

The Weather App provides real-time weather forecasts based on user input.  
This test plan ensures functionality, usability, and reliability.

**2. Scope:**

* **In Scope:** Search functionality, weather display, UI responsiveness, error handling, input validation.
* **Out of Scope:** Backend API stability ,load/stress testing.

**3. Objectives**

* Validate accurate weather data display.
* Verify UI responsiveness across devices.
* Ensure proper error messages for invalid inputs.

**4. Test Items**

* Weather search bar
* Current weather details
* Temperature, humidity, wind speed display
* Responsive UI (desktop, tablet, mobile)

**5. Test Approach**

* **Functional Testing** (manual + Robot Framework automation)
* **Cross-browser Testing** (Chrome, Firefox)
* **Responsive Testing** (Chrome DevTools / screen sizes)

**6. Entry/Exit Criteria**

* **Entry:** App deployed locally, test environment set, WebDriver installed.
* **Exit:** All priority test cases executed; critical bugs fixed.

**7. Deliverables**

* Test cases (Excel/Robot Framework scripts)
* Test execution report (report.html)
* Bug reports in tracker (Jira/Excel)

**8. Test Environment**

* **OS**: Windows 10 / macOS Ventura
* **Browsers**: Chrome 140+, Firefox latest
* **Devices**: Desktop (1920x1080), Tablet (768x1024), Mobile (375x667)
* **Tools**:
  + Robot Framework
  + Selenium WebDriver
  + Chrome DevTools

**9. Risks & Mitigation**

* **Risk**: API downtime may affect test results.
  + *Mitigation*: Use mock data / API stubs.
* **Risk**: Browser compatibility issues.
  + *Mitigation*: Test on latest 2 versions of supported browsers.

## ****10.Conclusion****

This test plan for **Weatherwise** ensures that the application delivers accurate, user-friendly, and reliable weather information across devices and browsers. By validating functionality, responsiveness, and error handling, the plan minimizes risks and enhances the overall user experience.

Testing will be iterative, with continuous feedback provided through bug reports and execution logs. The goal is to ensure a stable, responsive, and user-focused weather application before release.

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