# Test Plan for Weather Application

## 1. Introduction

This test plan outlines the strategy, objectives, scope, and schedule for testing the Weather Application. The goal is to ensure the application's functionality, usability, and performance meet the specified requirements.

## 2. Objectives

- Verify the app's ability to display accurate weather information.  
- Ensure the app handles various user interactions, such as searching for locations and toggling temperature units.  
- Validate responsiveness, performance, and error-handling mechanisms.

## 3. Scope

The scope of testing includes functional, usability, performance, and compatibility testing. Key modules to be tested are:  
- Homepage display  
- Location-based weather retrieval  
- Search functionality  
- Weather alerts and notifications  
- Multi-device responsiveness

## 4. Test Strategy

The testing strategy involves a combination of manual and automated testing to cover all functionalities of the application. Test cases will be derived from the requirements document and user stories.

## 5. Test Environment

The testing will be conducted on:  
- Devices: Android, iOS, and desktop browsers.  
- Browsers: Chrome, Firefox, Edge, and Safari.  
- Network Conditions: High-speed internet, 4G, and offline mode.

## 6. Roles and Responsibilities

- Test Lead: Oversee the testing process and ensure the plan's execution.  
- Test Engineers: Execute test cases and report defects.  
- Developers: Resolve reported defects.

## 7. Deliverables

- Test cases and scenarios.  
- Test execution reports.  
- Defect reports.  
- Final test summary report.

## 8. Schedule

The testing schedule is as follows:  
- Test Planning:13-12-2024 to 14-12-2024  
- Test Case Creation:14-12-2024 to 15-12-2024  
- Test Execution(Manual):16-12-2024 to 18-12-2024  
- Final Reporting:19-12-2024 to 20-12-2024

## 9. Risks and Mitigation

- Risk: Unavailability of required devices.  
 Mitigation: Use emulators or simulators as a backup.  
- Risk: Incomplete requirements.  
 Mitigation: Regular communication with stakeholders to clarify ambiguities.

## 10. Approval

This test plan has been reviewed and approved by the following stakeholders:  
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| **Name** | **Role** | **Date** | **Signature** |
| Test Manager | Test Lead | 2024-12-13 | Stephen Chitaranjan |
| Project Manager | Project Manager | 2024-12-13 | Biju |