

Test Case Report

Project: aniot - Innovating Life with Smart IoT Solutions

Event: aniot Hackathon

Date: 10-02-2025

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1. Overview

This report documents the test cases executed to verify the functionality, reliability, and usability of the aniot IoT solution developed during the hackathon.

2. Test Summary

Test Case ID	Feature	Test Scenario	Expected Result	Actual Result	Status
TC-001	Device Connectivity	Connect IoT device to Wi-Fi	Device connects	[Pass/Fail]	[Pass/Fail]
TC-002	Sensor Data Capture	Collect real-time data	Data updates in real-time	[Pass/Fail]	[Pass/Fail]
TC-003	Mobile App UI	Verify app displays data	Data is displayed	[Pass/Fail]	[Pass/Fail]
TC-004	Alerts & Notifications	Trigger automated alerts	Alert received in 5 sec	[Pass/Fail]	[Pass/Fail]
TC-005	Cloud Integration	Sync data with cloud	Data visible on cloud	[Pass/Fail]	[Pass/Fail]

3. Defects & Issues

Defect ID	Test Case ID	Issue Description	Severity	Status
D-001	TC-002	Sensor data lagging by 10 sec	High	Open
D-002	TC-004	No alert received for critical temperature	Critical	Fixed

4. Recommendations & Improvements

- Optimize sensor data transmission for real-time performance.
- Improve push notification speed for critical alerts.
- Enhance UI to display system health indicators.

5. Conclusion

The aniot IoT solution performed well in connectivity and cloud integration. However, improvements are needed in real-time data capture and notifications to enhance reliability.

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