TEST PLAN FOR

SMARTSENSOR

ChangeLog

Version	Change Date	By	Description
version number	Date of Change	Name of person who made changes	Description of the changes made

1 Introduction

The SmartSensor is a device which collects the realtime information of temperature,humidity, pressure and GPS and provides the same to the end User via cloud. The user can access it thorugh their mobile app. The user can also modify the data inputs like read frequency from the sensor through the smartapp.

1.1 Scope

The scope of this Software Test Plan is to perform testing for the SmartSensor application

1.2 Quality Objective

- To ensure the SmartSensor functional and non-functional requirements are met.
- Ensure the AUT meets the quality specifications defined by the client
- Bugs/issues are identified and fixed before go live

1.3 Roles and Responsibilities

Detail description of the Roles and responsibilities of different team members like

- QA Analyst
- Test Manager
- Configuration Manager
- Developers
- Installation Team

2 Test Methodology

2.1 Overview

The test methodology selected for the project could be

- Agile :: SaaS testing requires shorter test cycles to detect the defect as and when the code is developed

2.2 Test Levels

Test Levels define the Types of Testing to be executed on the Application Under Test (AUT).

- Functionality testing
- Networking testing
- Performance testing

- Usability testing
- Scalability testing
- Load testing
- Compatability testing
- Stress testing
- Security testing
- Negative testing

2.3 Bug Triage

The goal of the triage is to

- Functionality bugs to be closed before Acceptance testing
- Functionality, Network and Security related bugs will be catagorised as Critical or Major
- Usability bugs will be catagorised as Major or Minor
- Scalability ,Performance and Load bugs will be categorized as Major

2.4 Suspension Criteria and Resumption Requirements

When many critical functionality bugs are observed during testing then testing will be suspended. Testing will be resumed when critical bugs are resolved.

2.5 Test Completeness

Test Completeness would be

- 100% test coverage
- All Manual & Automated Test cases executed
- All open bugs are fixed or will be fixed in next release

3 Test Deliverables

- Test Plan
- Test Cases
- Requirement Traceability Matrix
- Bug Reports
- Test Strategy
- Test Metrics
- Customer Sign Off

4 Resource & Environment Needs

4.1 Testing Tools

- JIRA as Requirements Tracking Tool
- JIRA as Bug Tracking Tool
- Robot Framework, JMeter, Spirent, Wireshark App, PostMan, RESTAssured, BURP

4.2 Test Environment

Following **software's** are required in addition to client-specific software.

- Windows 10
- Office 2013 and above
- iOS/Andriod

5 Terms/Acronyms

Make a mention of any terms or acronyms used in the project

TERM/ACRONYM	DEFINITION
API	Application Program Interface
AUT	Application Under Test