No-Code Solution for InfluxDB

**TEST PLAN**

FOR BACKEND

# .1 Introduction

The Test Plan has been created to guide you the testing process. It defines your approach to testing and describes the testing methods you need to follow.

* It contains detailed information about the testing area.
* It helps determine the time and effort required to test the product.
* It clearly defines the roles and responsibilities of each team member.
* It provides a testing schedule. Hence, it provides you with a basic timeline to monitor and track your team’s progress.
* It specifies the resource requirements and hardware requirements to conduct the testing process successfully.

## Objectives

No-Code Solution for InfluxDB aims to develop a user-friendly, no-code interface for InfluxDB. This interface will simplify the process of querying and trending data for users without programming expertise.

**Key elements:**

Entry Criteria: When the features of backend are all finished.

Test Methods: Interchangeably use Manual testing and Automated testing.

Test Types:

* Functional Testing (Verifying that the software performs its intended functions and handles edge cases.)
* Compatibility Testing (Ensuring the software works well on various OSs, browsers.)
* Integration Testing (Testing interfaces between components and ensuring they work together properly.)

The test team is responsible for testing the product and ensuring it meets their needs. The test team is whole backend team in this project.

## Team Members

|  |  |
| --- | --- |
| **Resource Name** | **Role** |
| Tom | Developer, Tester |
| Peter | Developer, Tester |
| Kophina | Developer, Tester |
| Rain | Developer, Tester |

# Scope

This section describes what is being tested, what the tasks must be finished, and specify the quality level that the project must meet for the client to accept it.

* **New Customer Sign Up:**

1. The program must let customer sign Up.
2. When invalid character encounter must return correctly.
3. Must generate a unique authentication for every new customer.
4. Error must be correctly handled.

* Customer Log In

1. The program must let customer log in correctly.
2. The cookies must be correctly generated.
3. The critical information must not be stored in address bar.

* Customer Log Out
* Retrieve Bucket, Measurement and Filed through API
* Execute user’s request

# Risks

This section prescribes those negative scenarios that may occur during the project/testing and the corresponding solutions.

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Risk | Impact | Trigger | Mitigation Plan |
| 1 | Scope Change – as the project progresses, product owner might publish more user stories. | Medium | Delays in implementation date | Avoid mentioning next user stories proactively. If new user story is published, see our progress to determine next step. |
| 2 | Expiration of Postman | Low | Loss of test API | Change API tester to Insomnia |
| 3 | The lack of professional knowledge among junior tester | Medium | The quality of testing will be unacceptable | Every tester should learn testing method and testing code must be checked by Tom. |
| 4 | Insufficient time to delivery project before due day. | High | Fail of the project | Must follow milestone strictly. |

# Test Approach

The project is using an agile approach, with bi-weekly sprint. The test will be completed after every feature is completed.

Exploratory testing will play a large part of the testing as the team has never done this type of project and will be learning as they go.

Pytest, influxdb-python repository

# Milestones

## Test Schedule

The initial test schedule follows……….

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning | Sprint4 | Sprint5 | 4days |  |