Vaccine Booking System

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**Table Of Contents**

1. Introduction
   1. Purpose
   2. Scope
2. Assumptions/Risks
   1. Assumptions
   2. Risks
3. Test Approach
   1. Test Manual
   2. Test Automation
4. Testing Tools
5. Test Case
6. Milestone
7. Test Report
8. Conclusion

**TEST PLAN**

1. Introduction

The Test Plan create to communicate the test approach to team members. It includes the purpose, scope, schedule, feature to be tested, feature not to be tested and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

The goal of the project is to help the government's goal of Covid-19 vaccinations by facilicating users to book vacccination sessions easily and creating a proper system for health facilities.

* 1. Purpose

The purpose of this document is to outline the test strategy and overall test approach for the Vaccine Booking System project. This includes test methodologies, traceability, resources required, and estimated schedule.

* 1. Scope

This document details the testing that will be performed by the project team for the Vaccine Booking System project. It defines the overall testing requirements and provides an integrated view of the project test activities. Its purpose is to document:

• What will be tested;

Will be tested covering Web, RestApi and Mobile.

• How testing will be performed;

Testing will be carried out by means of manual testing and automation testing.

1. Assumptions / Risks
   1. Assumptions

This section lists assumptions that are made specific to this project.

* 1. Risks

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 Creep – as testers become more familiar with the tool, they will want more functionality | High | Delays in implementation date | Each iteration, functionality will be closely monitored. Priorities will be set and discussed by stakeholders. Since the driver is functionality and not time, it may be necessary to push the date out. |
| 2 | Changes to the functionality may negate the tests already written and we may loose test cases already written | High – to schedule and quality | Loss of all test cases | Export data prior to any upgrade, massage as necessary and re-import after upgrade. |
| 3 | Weekly delivery is not possible because the developer works off site | Medium | Product did not get delivered on schedule |  |
| 4 |  |  |  |  |

1. Test Approach

The project is using an agile approach, with weekly iterations. At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested. Exploratory testing will play a large part of the testing as the team has never used this type of tool and will be learning as they go. Tests for planned functionality will be created and added to test case as we get iterations of the product.

* 1. Test Manual

Manual testing is the process of manually testing software for defects. It requires a tester to play the role of an end user where by they use most of the application's features to ensure correct behaviour.

* 1. Test Automation

Automated unit tests are part of the development process, testing will be carried out, namely functional features include login, register, booking vaccine, see news, nearest location vaccination, add family, etc.

1. Testing Tools

The following tools will be used for testing:

| Process | Tool |
| --- | --- |
| Test case creation | Microsoft Excel |
| Test case tracking | Microsoft Excel |
| Testing Web | Katalon Studio |
| Testing mobile | Appium, Vysor, Real Device Android Version 8.1 |
| Testing API | Postman |
| Defect management | Microsoft Excel |

1. Test Case
2. Milestone

Testing Schedule.

The initial test schedule follows

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task Name** | **Start** | **Finish** | **Effort** | **Comments** |
| Test Planning | 6/6/2022 | 15/6/2022 | 100% |  |
| Design Test | 16/6/2022 | 24/6/2022 | 100% |  |
| Implement Test | 20/6/2022 | 25/6/2022 | 100% |  |
| Execute Test | 27/6/2022 |  | 100% |  |
| Evaluate Test | 11/7/2022 |  | 100% |  |

1. Test Report
2. Conclusion