GAPSTARS (PVT) LTD



**Software Quality Assurance Test Plan**

**Prepared by:**

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**Document History and Distribution**

1. Revision History

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| Version | Revision Date | **Description of Change** | **Author** |
| 1.0 |  | Initial Draft | M.S Himaz Ahamed |
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1. Distribution

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| Recipient Name | Recipient Organization | **Distribution Method** |
| Sachithri Suraweera | Gapstars Pvt Ltd | Email |
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# Introduction

The Software Test Plan (STP) is designed to prescribe the scope, approach, resources, and schedule of all testing activities. Test plan is identified the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

Aim of this project is to test the registration flow, Past book creation and Login with the previous user credentials for this web application <https://moments.pastbook.com/>.

**1.1 Objectives**

The goal of the test phase is to help ensure that the system operates in accordance with the functionality defined within the “Gapstars” Assignment for testing,

<https://moments.pastbook.com/>.

The following different types of testing will be done for the <https://moments.pastbook.com/>:

* System Testing
* Regression Testing
* Automation Testing

At a high level, this System Test intends to prove that: -

* The functionality delivered by the development team, is as specified by the business in the SRS Documents.
* The system is of high quality and the software will support the intended business functions and achieves the standards required by the PastBook.
* All the requirements mentioned in the assignment doc has been fully tested and assured the quality.

The following mentioned testing activities will be allocated to the “PastBook” Software Testing Life Cycle (STLC).

* Review assignment doc (Instead of acceptance criteria, SRS, Design/UI documents).
* Design test plan.
* Prepare test cases/scripts for system testing.
* Execute test cases/scripts for System testing.
* Report bugs into defect tracking tool.
* Re-test already fixed defects.

The main test deliverables can be categorized as four types in PastBook for this release.

* Test Plan.
* Test Cases/Scripts.
* Test Data sheet.
* Defect Reports.

Resources (Human) that will be available for testing process in Vouclicar.com:

|  |  |
| --- | --- |
| **Name** | **Type** |
| M.S Himaz Ahamed | Senior Quality Engineer |

**1.2 Testing Strategy**

Testing is the process of analyzing a software item to detect the differences between existing and required conditions and to evaluate the features of the software item.

This is the Test Strategy for PastBook. This document shall be completed and used by the project test team to guide how testing will be managed for this project. The test effort will be prioritized and executed based on the project priorities as defined in the Acceptance Criteria and System Requirements Specification. This is a living document that may be refined as the project progresses.

Testing will cover the types of testing that mentioned in the above section. Functionality for this release is detailed in the PastBook Assignment document for this release.

**1.2.1 Entrance Criteria**

The Entrance Criteria described in the Test Strategy, should be fulfilled before System Test can commence. In the event that any criterion has not been achieved, the System for Test PastBook commence if Project Manager and QA Manager are in full agreement that the risk is manageable.

* All developed code must be unit tested. Unit testing must be completed and signed off by development team.
* System Test plans must be signed off by Project Manager and QA Manager.
* All human resources must be assigned and in place.
* All test hardware and environments must be in place, and free for System test use.
* The Acceptance Tests must be completed, with a pass rate of not less than 90%.

**1.2.2 Exit Criteria**

The Exit Criteria detailed below must be

* All Critical and High Priority errors from System Test must be fixed and tested.
* If any medium or low-priority errors are outstanding - the implementation risk must be signed off as acceptable by Project Manager and PastBook representative.

**1.3 Scope**

Testing will be performed at several points in the life cycle as the product is constructed. Testing is a very 'dependent' activity. As a result, test planning is a continuing activity performed throughout the system development life cycle.

In this release, the entire project QA process is planned to complete within 02 days.

The scope of this test is limited to testing of PastBook project as described by the Assignment Document.

Testing will cover the following different modules of the PastBook:

|  |  |
| --- | --- |
| **Module** | **Expected Number of Test Cases to be Executed** |
| Registration | XX |
| Log In | XX |
| PastBook creation and image upload | XX |
| Sign out | XX |

\*NOTE - As a result of the test process, it is expected that the final number of Business Scenarios will vary from this number.

**1.4 Reference Material**

* Gapstars assignment document.

# Test Items

Areas in PastBook for this release that are considered as test items will be testing in testing process. The following test items have identified to be tested in this release.

* PastBook registration using Email.
* PastBook registration using Facebook connect.
* PastBook creation and image upload.
* PastBook sign in using previous credentials.
* Sign out.
* Session expiration.

The above mentioned test items in PastBook are referred by the following reference documents: -

* Gapstars Assignment Document.

**3. Features To Be Tested**

This section is explained that which features are going to be tested in testing process. Features are to be tested has been analyzed by based on functionalities in the System Requirements Specification (SRS). The following table has mentioned that which features will be tested for Vouclicar.com project in the current sprint.

|  |  |  |
| --- | --- | --- |
| **Test Item** | **Features to be tested** | **Owner** |
| PastBook registration using Email | * User registration using email | Himaz |
| PastBook registration using Facebook connect | * User registration using existing Facebook | Himaz |
| PastBook creation and image upload | * PastBook creation using a proper name. * Image upload | Himaz |
| PastBook sign in using previous credentials | * Sign In using email * Sign In suing Facebook connect | Himaz |
| Sign out | * Sign out | Himaz |
| Session expiration | * User log in session expiration | Himaz |

# 4. Features Not To Be Tested

This section will explain that features which are not to be tested in this release. This release related areas in detail and those are assigned with other releases testing process in the PastBook project.

# 

# \* Note: This release functionality testing will be done only for the agreed requirements in the Assignment document.

# 5. Approach

Outlined below are the main test types that will be performed for the PastBook project. All test plans and conditions will be developed from the Assignment Document.

**5.1 System Testing**

**System testing** is the testing of behavior of a complete and fully integrated software product based on the software requirements specification (SRS) document. In main focus of this testing is to ensure that Vouclicar.com meets or exceed Business /Functional / End user requirements in each sprint. This is black box type of testing where external working of the software is evaluated with the help of requirement documents & it is totally based on Users point of view.

This testing is to be carried out only after System Integration Testing is completed where both agreed functional and non-functional requirements are verified. Our QA team will directly write test cases/ scripts for each type of test items which are mentioned in the scope section.

Testing techniques/tools that our QA team will use to test in each deployments of PastBook project can be explained as below.

* Repository Management Software – GIT
* Bug Management Tool – Bugzilla
* Testing Server (QA) – (IP)

# 6. Pass / Fail Criteria

The completed application was delivered into the test environment with functionality as specified in the Assignment document.

The completed application passed through system testing with the following:

* **CRITICAL**

Causes system to crash or does not support critical functional requirements tied to Key Performance Parameters. No acceptable work-around. Actually, unable to demonstrate completed business scenario.

* **HIGH**

Causes significant system degradation or a difficult work-around to support critical functional requirements tied to Key performance Parameters. Business scenario can be completed with difficulty.

* **MEDIUM**

Causes moderate system degradation or a work-around to support critical functional requirements tied to Key performance Parameters. Business scenario can be completed with moderate to minor impact to business process.

* **LOW**

Causes minor system degradation or minor work-around to support critical functional requirements tied to Key performance Parameters. Business scenario can be completed with minor to no impact to business process.

Completion criteria for Pre-System Test have been established as following:

* Each business Test Case exercised.
* Each required conversion, interface and enhancement completed.
* No CRITICAL unresolved issues/defects may allow HIGH if necessary, but have an action plan.
* Action plans exist for remaining HIGH, MEDIUM and LOW issues/defects.

Completion criteria for System Test have been established as following:

* Each business Test Case exercised.
* Each required conversion, interface and enhancement completed.
* No CRITICAL, HIGH and MEDIUM unresolved issues/defects remain.
* Action plans exist for remaining LOW issues/defects.

No CRITICAL, HIGH, MEDIUM and LOW unresolved issues/defects remain.

**6.1 Suspension Criteria**

In general, testing will only stop if the QA server becomes unavailable.

**6.2 Resumption Criteria**

If testing is suspended due to the QA server becoming unavailable, testing will be resumed/re-start once access to the QA server is re-established.

**6.3 Approval Criteria**

This document must be formally approved by client before System Test can commence.

# 7. Testing Process

Testing process approach can demonstrate according to the following diagram which includes major step:-



* **Organize Project** involves creating a System Test Plan, Schedule & Test Approach, and requesting/assigning resources for PastBook project.
* **Design/Build System Test** involves identifying Test Cycles, Test Cases, Entrance & Exit Criteria, Expected Results, etc. In general, test conditions/expected results will be identified by the Test Team in conjunction with the Project Manager. The Test Team will then identify Test Cases and the Data required. The test conditions are derived from the Assignment document.
* **Design/Build Test Procedures** includes setting up procedures such as error management systems and status reporting and setting up the data.
* **Build Test Environment** includes requesting/building hardware, software and data set-ups.
* **Execute Test Cases/Scripts** – Test scenarios (Test Cases) will be executed to ensure the quality.
* **Log Defects** – Log defects as they are found from executing Test Cases/scripts.
* **Sign off** - Signoff happens when all pre-defined exit criteria have been achieved.

**7.1 Test Deliverables**

The main test deliverables can be categorized as four types in Vouclicar.com for Sprint1.

* Test Plan.
* Test Cases/Scripts.
* Test Data sheet.
* Defect Reports.

**7.2 Testing Tasks**

|  |  |  |
| --- | --- | --- |
| **Testing Task** | **Dependencies** | **Specific Skills** |
| Review Assignment document |  |  |
| Design test plan | Assignment document |  |
| Prepare test cases/scripts for system testing | Assignment document |  |
| Execute test cases/scripts for System testing | Assignment document and developers |  |
| Report bugs into Bugzilla | Assignment document |  |
| Re-test already fixed defects | Assignment document |  |

**7.3 Responsibilities**

The resources (Human) that will use to perform testing task are mentioned below.

* M.S Himaz Ahamed – Senior Quality Engineer

|  |  |
| --- | --- |
| **Testing Task** | **Responsible person** |
| Review Assignment document | Himaz – Senior Quality Engineer |
| Design test plan | Himaz – Senior Quality Engineer |
| Prepare test cases/scripts for system testing | Himaz – Senior Quality Engineer |
| Execute test cases/scripts for System testing | Himaz – Senior Quality Engineer |
| Report bugs into Bugzilla | Himaz – Senior Quality Engineer |
| Re-test already fixed defects | Himaz – Senior Quality Engineer |

**7.4 Resources**

|  |  |
| --- | --- |
| **Resource Type** | **Options** |
| OS | MS Windows 10 |
| Web Browser | Firefox version latest, Google Chrome Version latest |
| Bug Management Tool | Bugzilla |
| QA Server | (IP) |

**7.5 Schedule**

# 8. Environmental Requirements

# This section will demonstrate necessary and desired properties of the test environment: physical characteristics of the facilities including hardware, communications and system software, the mode of usage (i.e., stand-alone), and any other software or supplies needed.

**8.1 Hardware**

Gapstars will provide enough hardware and network resources to conduct testing

Process.

**8.2 Software**

Software needed for the Testing Effort for this project:

|  |  |
| --- | --- |
| **Type** | **Software** |
| OS | MS Windows 10 |
| Web Browser | Firefox version latest, Google Chrome Latest Version |
| Bug Management | Bugzilla |
| Document Editing | MS Office Word |

**8.3 Tools**

|  |  |
| --- | --- |
| **Tool** | **Option** |
| Screenshot Editing Tool | Microsoft Paint |

**8.4 Risks and Assumptions**

**8.4.1 Risks**

* No further changes or inclusions will be considered for inclusion in the release **except** where there is permission and agreement of the Project Manager and the QA Manager.
* Where the changes/inclusions will not require significant effort on behalf of the test team and will not adversely affect the test schedule. This is a potentially serious issue, as any major changes to design will entail additional time to re-plan testing and to create or amend test conditions.
* The design of the software must be final, and design documentation must be complete, informative and signed off by all parties prior to System Testing proper commences.

**8.4.2 Assumptions**

* Software will be delivered on time.
* Software is of the required quality.
* All "Show-Stopper" bugs receive immediate attention from the development team.
* All bugs found in a sprint of the software will be fixed and unit tested by the development team before the next sprint is released.
* Functionality is delivered to schedule.
* Required resources are available.
* All documentation will be up to date and delivered to the system test team.
* Functional and technical specifications will be signed off by the business.
* The Intranet will be fully functional prior to project commencement.

# 9. Change Management Procedures

Changes to any of the testing documents will be done at the end of each testing cycle/sprint. The only exception to this will be in the event of a change request event or change that is needed, approved by Project Manager and QA Manager. Changes to the Test Cases/Scripts must be submitted by the test team member to the QA Manager for signoff.

# 10. Plan Approvals

The undersigned acknowledge they have reviewed the PastBook **Test Plan** document for this release and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: |  |
| Signed Off by: |  |  |  |
| Company Name: |  |  |  |
| Role: |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Signature: |  | Date: |  |
| Signed Off by: |  |  |  |
| Company Name: |  |  |  |
| Role: |  |  |  |

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| Signature: |  | Date: |  |
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| Company Name: |  |  |  |
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