TEST PLAN

***Gambling Website: Registration Form***

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# **INTRODUCTION**

## Purpose:

This test plan describes the testing approach and overall framework that will drive the testing of the Gambling website (Bet Victor)’s Registration Form. The document introduces:

* Test Strategy: rules the test will be based on, including the givens of the project (e.g: Approach, Testing activities, Level of testing, assumptions); description of the process to set up a valid test (e.g.: entry / exit criteria, creation of test cases, specific tasks to perform, scheduling, data strategy).
* Execution Strategy: describes how the test will be performed and process to identify and report defects, and to fix and implement fixes.
* Test Management: process to handle the requirement of the test and all the events that come up during execution (e.g.: communications, escalation procedures, risk and mitigation, team roster)

## Project Overview:

With the help of Registration Form, we are onboarding or registering new users by performing significant validation of customers and storing important parameters in the system, which will be inputted by users. It will allow system to keep record of relevant information such as personal information and updating personal information later if required.

This gives the business a facility to validate the users’ age to avoid any issues and user can have facility to choose his/her preferred currency types. (Mode of deposit & withdraw the amount).

## Audience

1. Scrum team members perform tasks specified in this document and provide input and recommendations on this document.
2. Product owner Plans for the testing activities in the overall project schedule, reviews the document, tracks the performance of the test according to the task herein specified, approves the document and is accountable for the results.
3. The stakeholders’ representatives and participants take part in the UAT test to ensure the business is aligned with the results of the test.
4. Scrum Master & Product owner ensures that the test plan and deliverables are in line with the design, provides the environment for testing and follows the procedures related to the fixes of defects.
5. Business analysts will provide their inputs on functional changes.

# **TEST STRATEGY**

## 2.1 Test Objectives

The objective of the test is to verify that the functionality of’ Registration Form’ of Gambling website (BetVictor) works according to the specifications.

The test will execute and verify the test scripts, identify, fix, and retest all high and medium severity defects per the entrance criteria, prioritize lower severity defects for future fixing via product backlog.

The final product of the test is twofold:

* A shippable software ready.
* A set of stable test scripts that can be reused for Regression and UAT test execution.

## 2.2 Test Assumptions

Below are few of the assumptions:

**Key Assumptions**

* Test data will be provided from production masked data.

**General**

* Exploratory Testing would be carried out once the build is ready for testing
* Performance testing is not considered for this estimation.
* Automation testing is also not considered for this plan.
* Only Manual testing to be carried out during this phase of testing.
* All the defects would come along with a snapshot JPEG, png format
* The Test Team will be provided with access to Test environment via VPN connectivity
* The Test Team assumes all necessary inputs required during Test design and execution will be supported by Development/BUSINESS ANALYSTs appropriately.
* Test case design activities will be performed by QA Group
* Test environment and preparation activities will be owned by Dev Team
* Dev team will provide Defect fix plans based on the Defect meetings during each cycle to plan. The same will be informed to Test team prior to start of Defect fix cycles
* BUSINESS ANALYST will review and sign-off all Test cases prepared by Test Team prior to start of Test execution
* The defects will be tracked through JIRA only. Any defect fixes planned will be shared with Test Team prior to applying the fixes on the Test environment
* Project Manager/BUSINESS ANALYST will review and sign-off all test deliverables
* The project will provide test planning, test design and test execution support
* There is no environment downtime during test due to outages or defect fixes.

## 2.3 Test Principles

* Testing will be focused on meeting the business objectives, cost efficiency, and quality.
* There will be common, consistent procedures for all teams supporting testing activities.
* Testing processes will be well defined, yet flexible, with the ability to change as needed.
* Testing activities will build upon previous stages to avoid redundancy or duplication of effort.
* Testing environment and data will emulate a production environment as much as possible.
* Testing will be divided into distinct phases, each with clearly defined objectives and goals.
* There will be entrance and exit criteria.

**2.4 Dependency**

There will be dependency upon the BRD timelines and sign-off. Once that is sign-off and build team has notified the build details Scrum team can start with SIT testing.

Also, there is dependency on environment team, database team, Business Analyst. Environment and database should be up and running. Scrum Master should be available always to communicate with product owner and team.

## 2.5. Levels of Testing

### 2.5.1 Exploratory

**PURPOSE**: the purpose of this test is to make sure critical defects are removed before the next levels of testing can start.

**SCOPE**: Home page, Registration form pages

**TESTERS**: Testing team.

**METHOD**: this exploratory testing is carried out in the application without any test scripts and documentation

### 2.5.2 Functional Test

In this it will include below types of testing in different phases:

* + - * Integration testing,
      * System testing, and
      * Sanity testing
      * Regression testing
  + **PURPOSE:**  Functional testing will be performed to check the functions of application. The functional testing is carried out by feeding the input and validates the output from the application.
  + **Scope:** The below excel sheet details about the scope of Functional test. Note: The scope is high level.

[Functional Testing Scope.xlsx](Functional%20Testing%20Scope.xlsx)



Graphical user interface, application, table, Excel

Description automatically generated

**TESTERS**: Testing Team.

**METHOD**: The test will be performed according to Functional scripts, which are stored in JIRA.

**TIMING**: after Exploratory test is completed.

#### TEST ACCEPTANCE CRITERIA

1. Approved Functional Specification document, User stories must be available prior to start of Test design phase.
2. Test cases approved and signed-off prior to start of Test execution
3. Test environment with application installed, configured and ready to use state

#### MILESTONE LIST

The milestone list is tentative and may change due to below reasons

Functional testing would start on 15th sep 2022, and SIT should be done by 20 the oct 2022. It may change depending upon some environment issue. Detail Schedule Plan is captured in test strategy document.

### 2.5.3. User Acceptance Test (UAT)

**PURPOSE**: this test focuses on validating the business logic. It allows the end users to complete one final review of the system prior to deployment.

**TESTERS**: the UAT is performed by the end users (L1, L2 and L3).

**METHOD**: Since the business users are the most indicated to provide input around business needs and how the system adapts to them, it may happen that the users do some validation not contained in the scripts. Test team write the UAT test cases based on the inputs from End user (L1,L2 and L3 users) and Business Analyst’s.

**TIMING**: After all other levels of testing (Exploratory and Functional) are done. Only after this test is completed the product can be released to production.

## 2.5.6 Test Effort Estimate

Below is estimation plan that has been shared to product manager and attached in Confluence site.

Graphical user interface, application, table

Description automatically generated

Graphical user interface, application, table

Description automatically generated

# **3.Scope**

**3.1 In Scope**

Testing of registration form (including all the fields present in page) is in scope.

To perform the above, functional testing, unit testing UAT testing, Database validation, Regression, smoke testing all is in scope.

**3.2Out Scope**

Testing of home page, Login page, Payment’s page and other pages present in website is out of scope for this phase.

Also, Hardware testing, Performance testing, Automation testing, API testing etc. are out of scope in this phase of testing.

# **4.TEST ENVIRONMENT**

The following detail the environmental and infrastructure needs required for the testing of Registration form for Test Items and execution of Regression Testing.

**Hardware.**

* Integration Environment:
* Test-A: http://.....
* Test-B: http://....
* Pre-live Staging:

**Software Links:**

* JIRA: http://...
* Confluence: http://
* GUI link: <https://www.betvictor.com/en-gb/account/new>
* A windows environment with Internet Explorer 8, 9 and 10, and with Firefox 27.0, as well as Google Chrome 32.0 and later should be available to each tester.

**Infrastructure**

* Network connections are available on all Test Systems as required.

1. **Features to be tested**

All the fields that are specified in BRD for registration form only should be tested as per validation specification, such as:

1. Personal details (First Name, Last Name, Email, DOB, Mobile number, Password etc.)
2. Address section (Flat number, town/city/village, state, country, Post code)
3. Account page (Currency etc.)
4. Next, Tab, Submit, Enter, Up /down arrow, Case sensitivity)
5. Already existing user
6. Hyperlinks, buttons, radio box, calendars
7. Documents attached in page
8. Contact Information provided in page
9. **Features Not to be tested**
10. Testing of home page, Login page, Payment’s page and other pages present in website is out of scope for this phase.

Soap request & response.

1. EXECUTION STRATEGY

**7.1 Entry & Exit Criteria**

• The entry criteria refer to the desirable conditions to start test execution; only the migration of the code and fixes need to be assessed at the end of each cycle.

• The exit criteria are the desirable conditions that need to be met in order proceed with the implementation.

• Entry and exit criteria are flexible benchmarks. If they are not met, the test team will assess the risk, identify mitigation actions, and provide a recommendation. All this is input to the project manager for a final “go-no go” decision.

• Entry criteria to start the execution phase of the test: the activities listed in the Test Planning section of the schedule are 100% completed.

|  |  |  |
| --- | --- | --- |
| **Exit Criteria** | **Scrum Team** | **Notes** |
| 100% Test Scripts executed |  |  |
| 95% pass rate of Test Scripts |  |  |
| No open Critical and High severity defects |  |  |
| 95% of medium severity defects have been closed |  |  |
| All remaining defects are either cancelled or documented as Product backlog future release |  |  |
| All expected and actual results are captured and documented with the test script |  |  |
| All test metrics collected based on reports from JIRA |  |  |
| All defects logged in JIRA |  |  |
| Test Closure Memo completed and signed off |  |  |

## 7.2 Sprint Cycle

* + There will be two cycles for functional testing. Each cycle will execute all the scripts.
  + The objective of the first cycle is to identify any blocking, critical defects, and most of the high defects. It is expected to use some work-around to get to all the scripts.
  + The objective of the second cycle is to identify remaining high and medium defects, remove the work-around from the first cycle, correct gaps in the scripts and obtain performance results.

UAT test will consist of one cycle

## 7.3 Validation and Defect Management

* Each defect will be tracked in JIRA only. It is the responsibility of the tester to open the defects, link them to the corresponding script, assign an initial severity and status, retest and close the defect; it is the responsibility of the Defect Manager to review the severity of the defects and facilitate with the technical team the fix and its implementation, communicate with testers when the test can continue or should be halt, request the tester to retest, and modify status as the defect progresses through the cycle; it is the responsibility of the technical team to review JIRA on a daily basis, ask for details if necessary, fix the defect, communicate to the Defect Manager the fix is done, implement the solution per the Defect Manager request.

Defects found during the Testing will be categorized according to the bug-reporting tool “JIRA” and the categories are:

|  |  |
| --- | --- |
| **Severity** | **Impact** |
| 1 (Critical) | * This bug is critical enough to crash the system, cause file corruption, or cause potential data loss * It causes an abnormal return to the operating system (crash or a system failure message appears). * It causes the application to hang and requires re-booting the system. |
| 2 (High) | * It causes a lack of vital program functionality with workaround. |
| 3 (Medium) | * This Bug will degrade the quality of the System. However, there is an intelligent workaround for achieving the desired functionality - for example through another screen. * This bug prevents other areas of the product from being tested. However other areas can be independently tested. |
| 4 (Low) | * There is an insufficient or unclear error message, which has minimum impact on product use. |
| 5(Cosmetic) | * There is an insufficient or unclear error message that has no impact on product use. |

**7.4 Test Matrix**

Test metrics to measure the progress and level of success of the test will be developed and shared with the project manager for approval. The below are some of the metrics

|  |  |  |
| --- | --- | --- |
| **Report** | **Description** | **Frequency** |
| Test preparation & Execution Status | To report on % complete, %WIP, % Pass, % Fail  Defects severity wise Status – Open, closed, any other Status | Weekly / Daily (optional) |
| Daily execution  status | To report on Pass, Fail, Total defects, highlight Showstopper/ Critical defects | Daily |
| Project Weekly Status report | Project driven reporting (As requested by PM) | Weekly – If project team needs weekly update apart from daily and there is template available with project team to use. |

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|  |  |  |
| --- | --- | --- |
| **Report** | **Description** | **Frequency** |
| Test preparation & Execution Status | To report on % complete, %WIP, % Pass, % Fail  Defects severity wise Status – Open, closed, any other Status | Weekly / Daily (optional) |
| Daily execution  status | To report on Pass, Fail, Total defects, highlight Showstopper/ Critical defects | Daily |
| Project Weekly Status report | Project driven reporting (As requested by PM) | Weekly – If project team needs weekly update apart from daily and there is template available with project team to use. |

## 7.5 Defect tracking & Reporting

Following flowchart depicts Defect Tracking Process:

**Approved?**

**Start**

**Tester:**

**Report defects**

**Dev Lead**

**Assign defects**

**Developer:**

**Fixes defects**

**Tester:**

**Retests the product**

**No**

**Stop**

**Close defect**

**Yes**

**Test Lead**

**Validate defects**

# **TEST MANAGEMENT PROCESS**

## 8.1 Test Management Tool

All testing artifacts such as Test cases, test results, Test Plan, Test strategy are updated in the Confluence.

* Project specific folder structure will be created in Confluence to manage the status of execution during project.
* Each resource in the Testing team will be provided with Read/Write access to add/modify Test cases in JIRA & Confluence & Zypher.
* During the Test Design phase, all test cases are written directly into JIRA. Any change to the test case will be directly updated in the JIRA.
* Each Tester will directly access their respective assigned test cases and update the status of each executed step in Confluence & JIRA both directly.

## 8.3 Test Design Process

* The tester will understand each requirement and prepare corresponding test case to ensure all requirements are covered.
* Each Test case will be mapped to Use stories to Requirements as part of Traceability matrix.
* Each of the Test cases will undergo review by the BUSINESS ANALYST and the review defects are captured and shared to the Test team. The testers will rework on the review defects and finally obtain approval and sign-off.
* During the preparation phase, tester will use the prototype, use case and functional specification to write step by step test cases.
* Testers will maintain a clarification Tracker sheet and same will be shared periodically with the Requirements team and accordingly the test case will be updated. The clarifications may sometimes lead to Change Requests or not in scope or detailing implicit requirements.

## 8.4 Test Execution Process

* Once all Test cases are approved and the test environment is ready for testing, tester will start a exploratory test of the application to ensure the application is stable for testing.
* Each Tester is assigned Test cases directly in JIRA.
* Testers to ensure necessary access to the testing environment, JIRA for updating test status and raise defects. If any issues, will be escalated to the Test Lead and in turn to the Project Manager as escalation.
* If any showstopper during exploratory testing will be escalated to the respective development SPOCs for fixes.

**8.5 Risks and Mitigation Factors**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Risk** | **Mitigation Strategy** | **Impact** |
| 1 | Delays in delivering completed Test Items from Development would impact test timescales and final Release quality | Product Management and Development to advise of any delays and adjust Release Scope of Resources to allow the test activities to be performed. | High |
| 2 | Delays in the turnaround time for fixing critical bugs, which would require re-testing, could have an impact on the project dates. | Strong management of bug resolution would be required from Development to ensure bugs are fixed and available for re-testing in the scheduled time. | High |
| 3 | Delay in on time development of user stories and requirement is not clear to team | Proper communication of delivery timelines within the scrum team and understanding of user stories should be clear | Medium |
| 4 | Features of Test Items will not be testable. | The Test Team will record untested features and request the PM to assess business risk in support of the release of untested features. | Low |
| 5 | Dependency on other teams such as environment team, database team and communication gap | Communication should be followed dedicatedly and if there is any gap, escalation point of contact should be there to help. | Low |

There could be some other as well like below:

|  |  |  |  |
| --- | --- | --- | --- |
| **SCHEDULE**  Testing schedule is tight. If the start of the testing is delayed due to design tasks, the test cannot be extended beyond the UAT scheduled start date. | High | High | * The testing team can control the preparation tasks (in advance) and the early communication with involved parties. * Some buffer has been added to the schedule for contingencies, although not as much as best practices advise. |
| **RESOURCES**  Not enough resources, resources on boarding too late (process takes around 15 days. | Medium | High | Holidays and vacation have been estimated and built into the schedule; deviations from the estimation could derive in delays in the testing. |
| **DEFECTS**  Defects are found at a late stage of the cycle or at a late cycle; defects discovered late are most likely be due to unclear specifications and are time consuming to resolve. | Medium | High | Defect management plan is in place to ensure prompt communication and fixing of issues. |
| **SCOPE**  Scope completely defined | Medium | Medium | Scope is well defined, but the changes are in the functionality are not yet finalized or keep on changing. |

## 8.6 Roles and Responsibilities

The following list defines in general terms the expectations related to the roles directly involved in the management, planning or execution of the test for the project.

| SN0. | Roles | Name | Contact Info |
| --- | --- | --- | --- |
| 1. | Product Manager |  |  |
| 2. | Scrum Master |  |  |
| 3. | Business Analyst |  |  |
| 4. | Development Lead |  |  |
| 5. | Scrum Team |  |  |
| 6. | Development Team |  |  |
| 7. | Environment Team |  |  |

* As this are agile project, we will have below roles involved in the testing and their responsibilities are mentioned respectively:

*Product owner:*

* Developing and explicitly communicating the Product Goal.
* Creating and clearly communicating Product Backlog items.
* Ensuring that the Product Backlog is transparent, visible, and understood.

### *Scrum Master:*1team member will act as scrum master, and he/she will be responsible for below tasks:

### Coach team members, Host daily stand-up meetings, Assist the product owner with the product backlog, remove roadblocks, Teach Scrum practices and principles etc.

*Development team:* Normally the team size is 5-7. Team will develop the registration form in iterative way and test it parallelly. Will attend the daily scrum meetings and discuss the progress and blockers with scrum master. They are cross functional, so team will help each other in case of issue. Will perform test execution during sprint, raise the bugs, have calls with development team and putting the evidence and delivering the test artifacts to stakeholders/clients.

1. **Test Deliverables**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **Deliverable Name** | **Author** | **Reviewer** |
| 1. | Test Plan | Test Lead | Project Manager/ Business Analyst’s |
| 2. | Test Strategy | Test Manager | Manager |
| 3. | Functional Test Cases | Test Team | Business Analyst’s Sign off |
| 4. | Logging Defects in HP ALM | Test Team | Test Lead/ Programming Lead |
| 5. | Daily/weekly status report | Test Team/ Test Lead | Test Lead/ Project Manager |
| 6. | Test Closure report/Sign Off document with all the links | Test Lead | Project Manager |

**10.Approval:**

|  |  |  |  |
| --- | --- | --- | --- |
| ROLE | NAME | Sign -Off Received | Date |
| IT HEAD | abc | Mail attached [Registration Features.txt](Registration%20Features.txt) | 30/08/2022 |
| IT PM | Jkn | YES | 30/08/2022 |
| Global Product Owner | Gjhhkjn | YES | 31/08/2022 |