7/1/2022

**Test Plan**

**Mytheresa - Login**

**Version: 1.0**

**Status : Draft** (The status would change to ﬁnalised post the QA, PM and dev team review and sign oﬀ)

**Revision and Sign-oﬀ Sheet**

**Document History** - To maintain a list of changes being made

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description of Change |
| Draft 1 | 05.07.2022 | Sujith Thulaseedharan |  |
| Draft 2 | - |  | Updated section details |

**Approvers List** - To track who has reviewed and sign-off on the Test plan

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| Name | Role | Approver / Reviewer | Approval / Review Date |
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**Reference Documents**

|  |  |  |
| --- | --- | --- |
| Version | Date | Document Name |
|  | 05.07.2022 | Quality Assurance Challenge |
|  |  |  |

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7. **INTRODUCTION**
   1. **Purpose**

This test plan describes the testing approach and overall framework that will drive the testing of the **Login Features** meant for both Webs, iOS, and Android platforms. The document introduces:

• Test Strategy: rules the test will be based on, including the givens of the project (e.g.: start / end dates, objectives, 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 logistics of the test and all the events that come up during execution (e.g.: communications, escalation procedures, risk and mitigation)

* 1. **Overview**

Login is a fast and convenient way for people to create accounts and log into your app across multiple platforms. It's available on Webs, iOS, and Android platforms.

* 1. **Audience**

• Project team members perform tasks specified in this document, and provide input and recommendations on this document.

• Project Manager Plans for the testing activities in the overall project schedule, reviews the document, tracks the performance of the test according to the tasks specified, approves the document and is accountable for the results and also provide their inputs on functional changes.

• The stakeholders’ representatives and participants may take part in the UAT test to ensure the business is aligned with the results of the test.

• Project manager and QA Lead 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.

1. **TEST STRATEGY**
   1. **Test Objectives**

The objective of the test is to verify that the functionality of **Login feature**  works according to the specifications.

The test will execute and verify the test cases, identify, fix and retest all the high and medium priority defects per the entrance criteria, prioritise lower severity defects for future fixing.

The final product of the test is a fully functioning PROD app, which satisfies the user specifications.

* 1. **Test Assumptions**

• Production like data required and be available in the system prior to start of Functional Testing.

• Exploratory Testing would be carried out once the build is ready for testing.

• Performance testing is not considered for this estimation.

• All the defects would come along with a snapshot JPEG format or a video recording.

• The Test Team will be provided with access to Test environment.

• The Test Team assumes all necessary inputs required during Test design and execution will be provided by Development/Business Analysts appropriately.

• Test case design activities will be performed by QA team.

• 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.

• PTL and QA Lead will review and sign-off all Test cases prepared by the tester prior to start of Test execution.

• The defects will be tracked through Jira board. Any defect fixes planned will be shared with Test Team prior to applying the fixes on the Test environment.

• Project Manager will review and sign-off all test deliverables.

• The project will provide test planning, test design and test execution support

• Test team will manage the testing effort with close coordination with the PTL and development team

• Project team has the knowledge and experience necessary, or has received adequate training in the system, the project and the testing processes.

• There is no environment downtime during test due to outages or defect fixes.

• UAT test execution will be performed by end users and QA team will provide support if necessary.

* 1. **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 considering the 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 a repeatable, quantifiable, and measurable activity.

• Testing will be divided into distinct phases, each with clearly defined objectives and goals.

• There will be entrance and exit criteria.

* 1. **Scope and Levels of Testing**
     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**: TBD

**TESTERS**: Agile Tester (DEV Environment)

**METHOD**: Randomly perform the test and it is beyond the scope of test case TIMING: at the beginning of each sprint.

* + 1. **Functional Test**

**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 table details about the scope of Functional test.

|  |  |
| --- | --- |
| Major functionality's | Description |
| Login | This should allow the existing customers to access the app with their login credentials and should perform the normal login functions for the new users |

**TESTERS**: Agile Tester.

**METHOD**: The test will be performed according to the tickets defined in the Jira board.

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

* + - 1. **Types of Functional Test**

1. Smoke Test

2. Sanity Test

3. UI Test

4. API Test

5. Regression Test

6. Module Test

7. Integration Test

**TEST ACCEPTANCE CRITERIA**

1. Approved Functional Specification document, use case documents must be available prior to start of Test design phase.

2. Test cases approved and signed-off prior to start of Test execution.

3. Development completed, unit tested with pass status.

4. Test environment with application installed, configured and ready to use state

**TEST DELIVERABLES**

|  |  |  |
| --- | --- | --- |
| Deliverable Name | Author | Reviewer |
| Test Plan | Agile Tester | Test Lead/Project Manager |
| Functional Test Cases | Agile Tester | Test Lead/Project Manager |
| Logging Defects in Jira | Agile Tester | Test Lead/Project Manager |
| Test Closure report | Agile Tester | Project Manager |

* + 1. **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.

**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 test cases.

**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.

* 1. **Test Effort Estimate**

This lists out all the activities that have to be performed by the QA team and estimates how many man-hours each activity is going to take.

**TBD after the refinement meeting**

1. **EXECUTION STRATEGY**
   1. **Entry and Exit Criteria**

• The entry criteria refer to the desirable conditions in order 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 test effort estimate are 100% completed.

|  |  |  |  |
| --- | --- | --- | --- |
| Exit Criteria Test | Test Team | Technical Team | Notes |
| Test case for all Tickets |  |  |  |
| Maximum Test coverage |  |  |  |
| No open Critical and High severity defects |  |  |  |
| Medium severity defects have been closed |  |  |  |
| All remaining defects are either cancelled or documented as Change Requests for a future release |  |  |  |
| All expected and actual results are captured and documented with the tickets/test cases |  |  |  |
| All defects logged in Jira |  |  |  |
| Test Closure Memo completed and signed of |  |  |  |
| Test environment clean-up completed and a new back up of the environment |  |  |  |

* 1. **Test Sprints**

It will be decided later

* 1. **Validation and Defect Management**

• It is expected that the testers execute all the test cases in each of the sprints described above. However it is recognised that the testers could also do additional testing if needed.

• The defects will be tracked through Jira only.

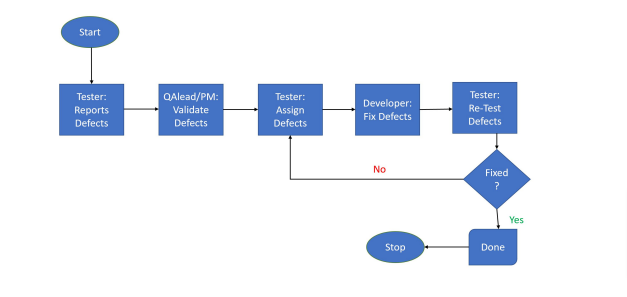
• It is the responsibility of the tester to open the defects, link them to the corresponding test cases, assign an initial severity and status, retest and close the defect; it is the responsibility of the QA Lead/Project manager to review the severity of the defects and facilitate with the technical 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 development team to review Jira board on a daily basis, ask for details if necessary, fix the defect, communicate to the Manager the fix is done, implement the solution per the Manager request.

Defects found during the Testing will be categorised according to Jira and the categories are:

**Highest, High, Medium, Low, Lowest.**

* 1. **Test Metrics**

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.

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1. **TEST MANAGEMENT PROCESS**
   1. **Test Management Tools**
      1. **Jira**

It is a proprietary issue tracking product developed by Atlassian that allows bug tracking and agile project management. It helps in the overall development and test process like plan, track, release and report.

• The project will be created in Jira to manage the project.

• All the sprints will be planned and deployed in Jira.

• Tickets and stories will be created in Jira.

• Each resource in the team will be provided with Read/Write access to add/modify Test cases in Jira.

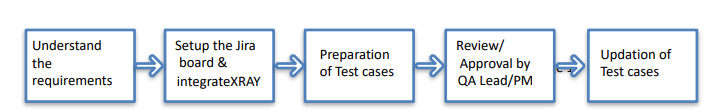
• Tester will directly access their respective assigned test cases and update the status of each executed step in Jira.

• Any bug encountered will be raised in Jira and link to the particular Test case.

• During Defect fix testing, defects are re-assigned back to the tester to verify the defect fix. The tester will verify the defect fix and updates the status.

* + 1. **XRAY**

Xray is a Jira plug-in which offers tool support for test management within Jira. It supports the entire test life cycle from test planning, test design, test execution to test reporting. All Xray artifacts are mapped using Jira issue types. Thus, all advantages such as JQL, sprint planning, gadgets, etc. can be used.

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* 1. **Test Design Process**

• Tester will go through the specification documents thoroughly, understand the requirements, prepare the test cases in XRAY and make sure that all requirements are covered.

• Each test case will be assigned to the corresponding tickets in Jira.

• The test case will be reviewed by QA Lead/Project Manager and gives feedback.

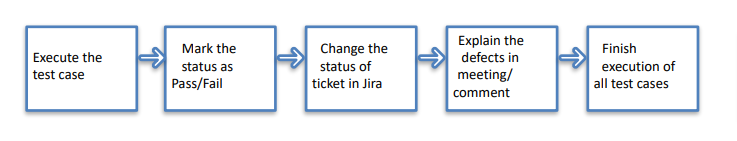
• Make necessary changes to test cases based on the feedback.

• During the preparation phase, tester will use the prototype, use case and functional specification to write step by step test cases.

• Get the approval from QA Lead/Project manager.

• Update the test cases based on the change in requirements.

* 1. **Test Execution Process**

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• Once the Test cases got approved and the test environment is ready for testing, tester begin the execution with an exploratory test of the application to ensure the application is stable for testing.

• Proceed with the next level of testing, if the initial level of testing is satisfactory.

• Consider only the tickets comes under the status QA in Jira.

• Make sure that the tester has access to Jira board and will be able to change the status of the tickets and make necessary edits.

• Execute the test cases one by one and update the status of each test case and communicate properly with DEV team/PM.

• If the test case fails then change the status of test case and corresponding tickets in Jira as well. Make sure to provide a suitable comment with a screenshot or recording to understand and reproduce the defect by DEV team.

• Participate in Daily/team meeting and brief the progress of testing and explains the defects found.

• Before creating bug tickets, consult with DEV team and proceed.

• If any defect has been found which is beyond the scope of requirement, contact the PM and make the necessary step.

• This process is repeated until all test cases are executed fully with Pass/Fail status.

• Fixed defects will be tested again and update the status accordingly.

• Discontinue the test after the analysis of the test coverage and the review from QA Lead/Project Manager

* 1. **Test Risks and Mitigation Factors**

|  |  |  |  |
| --- | --- | --- | --- |
| Risk | Priority | Impact | Mitigation Plan |
| **Documentation** When there is no proper specifications regarding the project, then it will be hard to proceed with the testing. It is a must to have a well defined acceptance criteria. | TBD | TBD | • The PTL will make sure all the necessary documentation's are there.  • All the communications will held through the slack channel assigned for the project, so that everyone can view the new informations and avoid the confusion.  • Any change to the acceptance criteria will be updated to the corresponding ticket in Jira. |
| **SCHEDULE**  Testing schedule is tight. If the start of the testing is delayed due to design tasks, delay caused from the Third parties in delivering the add ons or due to some other reasons. Time allocated for the testing. | TBD | TBD | • The testing team can control the preparation tasks (in advance) and the early communication with involved parties.  • Make sure all the things are going according to the schedule, if it deviates then the PTL discuss the same with the concerned authorities and balance the timeline.  • Time allocation for the testing will be flexible and based on the progression of sprint and tasks. |
| **Deadline**  Failing to meet the deadline is a nightmare | TBD | TBD | • PTL will schedule each sprint based on the deadline.  • Scrutinise whether everything works according to the plan.  • Update all the deadlines in confluence page and report, if fails to meet the deadline.  • PTL will inform the client and make necessary steps to achieve the target. |
| **RESOURCES**  Not enough resources, resources on boarding too late | TBD | TBD | • Holidays and vacation have been estimated and built into the schedule; deviations from the estimation could derive in delays in the testing.  • All the gadgets required for the testing has been identified and will have some additional gadgets in case of emergency |
| **DEFECTS**  Defects are found at a late stage; defects discovered late are most likely be due to unclear specifications and are time consuming to resolve | TBD | TBD | All these will get addressed in the Daily meeting and a slack channel with all the persons involved in this project has been created. |
| **SCOPE**  Scope completely defined | TBD | TBD | Scope is defined for now, but it might keeps changing which affects the whole estimation. |
| Natural disasters | TBD | TBD | Teams and responsibilities have been spread to two different geographic areas. In a catastrophic event in one of the areas, there will resources in the other areas needed to continue (although at a slower pace) the testing activities. |

* 1. **Role Expectations**

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.

|  |  |  |
| --- | --- | --- |
| Role | Name | Contact Info |
| Project Manager |  |  |
| Test Lead |  |  |
| Development Team |  |  |
| Agile Tester |  |  |
| Design Team |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

* + 1. **Project Manager**

• Project Manager: reviews the content of the Test Plan, Test Strategy and Test Estimates signs off on it.

• Provide the necessary environments for development and testing.

• Provide on premise or telecommute support.

• Acknowledges all the things happening inside the project.

• Will assign all the sprints and tasks.

• Coordinate all the teams together

* + 1. **Test Lead**

• Provide guidelines on how to manage defects.

• Reviews the test plan, test case and the overall progression of testing.

• Communicate to the test team any changes that need to be made to the test deliverables or application and when they will be completed.

• Provide on premise or telecommute support.

• Give the OK to start next level of testing.

* + 1. **Agile Tester**

• Ensure entrance criteria are used as input before start the execution.

• Develop test plan and the guidelines to create test conditions, test cases, expected results and execution scripts.

• Develop test conditions, test cases and expected results.

• Perform execution and validation.

• Identify, document and prioritise defects according to the guidance provided by the Test lead.

• Re-test after software modifications have been made according to the schedule.

• Prepare testing metrics and provide regular status

* + 1. **Development Team**

• Review testing deliverables (test plan, cases, expected results, etc.) and provide timely feedback.

• Assist in the validation of results (if requested).

• Support the development and testing processes being used to support the project.

• Certify correct components have been delivered to the test environment at the points specified in the testing schedule.

• Keep project team and leadership informed of potential software delivery date slips based on the current schedule.

• Define processes/tools to facilitate the initial and ongoing migration of components.

• Conduct first line investigation into execution discrepancies and assist test executors in creation of accurate defects.

• Implement fixes to defects according to schedule.

* + 1. **Design Team**

• Design the application based on the requirement.

1. **TEST ENVIRONMENT**

|  |  |
| --- | --- |
| Resources | Description |
| Network | Need a proper internet connection Network condition under test: WiFi |
| Laptop | To access the Jira board and to automate certain test process. Device used: MacBook Pro |
| Android Devices TBD | TBD |
| iOS Devices | TBD |
| USB cable | Need to connect the mobile devices with the laptop |
| DEV Environment | All the major testing will be held on the DEV environment, this will be the ideal environment for the test team |
| Test Flight version | Environment for User acceptance test |
| Playstore version | Environment for User acceptance test |
|  |  |
|  |  |
|  |  |

1. **APPROVALS**

The Names and Titles of all persons who must approve this plan.

|  |  |
| --- | --- |
| **Signature** |  |
| **Name** |  |
| **Role** |  |
| **Date** |  |