Test Plan

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# Table of Contents

1. INTRODUCTION 4

1.1. Purpose 4

1.2. Project Overview 4

1.3. Audience 4

2. TEST STRATEGY 4

2.1. Test Objectives 4

2.2. Test Assumptions 5

2.3. Test Principles 5

2.4. Scope 5

3. WORK PLAN 6

3.1. Exploratory 6

3.2. Functional Tests 6

4. TEST PROCEDURE 7

4.1. Test Procedure 7

4.2. Bug Reports 8

5. [RESOURCES](#_pe77f8p2wy5n) 9

5.1  [Tools](#_5k1pfoie39vp) 9

6. THE CRITERIA OF QUALITY 10

7. TESTING PROCESS RISKS 10

8. TEST TEAM EXPECTATIONS 10

9. RESPONSIBILITIES OF TEST TEAM MEMBERS 10

9.1. Project Manager 10

9.2. [QA Tech Lead](#_7phmh9jm0e8n)  11

9.3. Test Team 11

10. [DELIVERABLES](#_vx7m6a3jutdl) 11

## INTRODUCTION

### Purpose

This test plan describes the testing approach and overall framework that will drive the testing of the <https://primariadeda.ro/> Website. The document introduces:

* Identify existing project information and software components to be tested.
* Execution Strategy: describes how the test will be performed and process to identify and report defects, and to fix and implement fixes.
* Identify required resources and provide a test effort estimate.

### Project Overview

Primaria Deda Website provides people of the town the ability to view relevant information such as important news from the village,possibility to pay a fine online, personal information of the people working in the town hall and the mayor, with an internet enabled PC without going to the town hall. This website is making information available anywhere, anytime.

### 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 task herein specified, approves the document and is accountable for the results.
* Technical Team 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.
* Business analysts will provide their inputs on functional changes.

## 2. TEST STRATEGY

### 2.1Test Objectives

The objective of the test is to verify that the website [primariadeda](https://primariadeda.ro/).ro 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 .

### 2.2Test Assumptions

**General**

* Exploratory Testing would be carried out at once.
* Performance testing is not considered for this estimation.
* All the defects would come along with a snapshot JPEG 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 Testing team
* Test environment and preparation activities will be owned by Dev Team
* The project will provide test planning, test design and test execution support
* Test team will manage the testing effort with close coordination with Project PM/BUSINESS ANALYST
* Project team has the knowledge and experience necessary, or has received adequate training in the system, the project and the testing processes.
* The system will be treated as a black box; if the information shows correctly online and in the reports, it will be assumed that the database is working properly.

### 2.3Test 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 will be divided into distinct phases, each with clearly defined objectives and goals.

### 2.4 Scope

**The following components and functions would be tested:**

1. Payment of a fine

2. Submission of documents

3 Save a document

## 3. Work plan

The parties agreed to follow the next work plan:

1. Test plan preparation

2. Test plan approval

3. Functional testing and bugs reporting

4. Daily reports preparation

5. Final report preparation

### 3.1.Exploratory

**PURPOSE**: the purpose of this test is to make sure critical defects are found and reviewed

**SCOPE**: First level navigation

**TESTERS**: Testing team.

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

### 3.2. Functional Test

**PURPOSE:**  Functional testing will be performed to check the functions of the website. The functional testing is carried out by feeding the input and validates the output from the website.

**TESTERS**: Testing Team.

**METHOD**: The tests will be performed manually.

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

| **Test Objective :** | **Ensure proper target-of-test functionality** |
| --- | --- |
| Technique : | Execute each use case, use-case flow, or function, using valid and invalid data, to verify the following: ●The expected results occur when valid data is used.  ●The appropriate error or warning messages are displayed when invalid data is used.  ●Each rule is properly applied. |
| Entry Criteria: | ●The website construction is completed.  ●The test engineers are dedicated  ●Necessary devices, instruments, and other equipment are acquired. |
| Completion Criteria: | ●All the planned tests are performed.  ●There are no show-stopping errors.  ●All the errors of high priority and severity are fixed.  ●The test results are evaluated, discussed and approved. |
| Special Considerations: | None |

## 4.Test Procedure

### 4.1.Test procedure

Test procedure assumes the next points:

●Reporting of found software bugs.

The main testing types that would be executed:

● Functional Testing

● UI Testing

● Usability Testing

● Compatibility Testing (4 modern web browsers and devices)

● Regression testing

● Retesting (during the second round if needed)

It also will be checked how the software product is run on the browsers and devices that are supposed to support it, how it starts and stops, and how much time it needs to launch.

During this test round the next types of testing will NOT be applied:

● Security testing

### 4.2. Bug Reports

Bug reports are created in order to provide the development team and the project managers with exhaustive information about the discovered defects. They must be helpful in determining causes of the errors and correcting them. Defect Severity can be classified into four categories:

● Critical (blocker) defects are the failure of the complete software system or of a critical subsystem, and no work or testing can be carried out after the occurrence of the defect. It also applies to data loss failures and with processes that leave inconsistent data stored in the database.

● Major defects (and crashes) are those which also cause failure of the entire or part of the system, but there are some processing alternatives which allow further operation of the system. It also applies to the system crashing, or aborting, during normal operation of a non-critical flow.

● Minor defects do not result in failure but cause the system to show incorrect, incomplete, or inconsistent results.

● Trivial defects are small errors that do not affect the functionality: typos, grammar mistakes, wrong terminology, etc.

The information that is indicated in each bug report:

● the software product name;

● version number of the software product (if tested on mobile);

● the browser on which the tests were performed. Each report provides the next information about the defect:

● summary, which is short description of the problem;

● location of the defect in the software product;

●steps to reproduce the error; ●frequency of the defect occurrence;

●severity of the defect;

●additional information about the defect in the form of attached screenshots or video records.

Third party software will be used for reporting and maintaining discovered errors.The Test team will log in that software all the defects that will be found during the testing process.

## 5 Resources

### 5.1 Tools

The following tools will be used for this project:

| Name of process | Tool |
| --- | --- |
| Defect Tracking | Jira |
| Test Cases | Sheets |
| Screen Shots | Snagit/PrintScreen |

The List of browsers:

| Name of Browser | Version |
| --- | --- |
| Chrome | Latest |
| Firefox | Latest |
| Safara | Latest |

List of devices :

Iphone device

Android device

PC/Laptop

## 6. The criteria of quality

The product should operate in accordance with the requirements and the functional specification (if present). The product should not contain critical and blocking defects in the final version of the project.

## 7. Testing Process Risks

The next issues may influence testing works:

● changes and modifications of the software product that were not planned and discussed with the test team beforehand;

● changes in the software requirements that were not discussed with the test team beforehand; ● delays in correcting/fixing errors;

● delays in delivering new builds to the test team.

## 8. Test Team Expectations

The test team must be provided with valid, updated documents during the whole testing process.

All the required equipment, instruments, devices and software must be acquired and prepared before the beginning of the testing process.

All show-stopping errors must be corrected as soon as possible.

Release notes should be added to each software release to the test team.

The note must explain which elements, functions and features were added to the program and how these additions affect the software.

The developers should correct all the errors in the software modules before releasing a new version.

## 9. Responsibilities of Test Team Members

### 9.1.Project Manager

● Managing the whole testing process.

● Providing all the needed resources for the testing activities.

### 9.2.QA Tech Lead

● Managing the QA team from a technical perspective.

● Analyzing the tasks and distributing them between team members.

● Communicating with the client team and discussing all issues, providing recommendations before an update or release.

● Experience in participation of different SDLC models like Agile, Scrum, Kanban, Sequential, Iterative and Incremental.

● Creating test documentation, including test cases, test plans, etc.

● Proposing best practices and tools for a project.

### 9.3.Test Team

* Develop test conditions, test cases, expected results, and execution scripts.
* Perform execution and validation.
* Identify, document and prioritize 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.

## 10. Deliverables

● Test Plan.

● Bug reports and reports regarding the testing progress.