# Software Test Plan - Shufersal Group F

Prepared by: Doron, Shira, Tome, Hannah, Bar, Yoni

## I. Introduction

This document outlines the Test Plan for Shufersal's website. The purpose of this Test Plan is to provide a structured approach to testing that ensures all aspects of the project meet the required standards. Shufersal's website includes functionalities such as user registration, product search, accessibility features, a shopping cart, and a secure payment function. The aim is to ensure the website functions correctly and is accessible to all users.

## II. Objectives

The objectives of this Test Plan are:

- Define the scope and approach of the testing activities.
- Identify the types of testing to be performed.
- List the resources and responsibilities for the testing process.
- Establish a schedule for testing activities.
- Detail the criteria for acceptance and pass/fail statuses.
- Ensure the website meets accessibility standards and functions correctly across different devices and browsers.

## III. Test Scope

The scope of this test includes:

- **Functional Testing:** Ensuring that each function of the website operates as required.
- **Non- Functional Testing:** Evaluating aspects of the website that do not relate to specific behaviors or functions, including usability and security

# IV. Test Strategy

## 1. Types of Testing

The types of testing to be conducted include:

- **Functional/Boundary:** Testing what happens when all actions and inputs are performed correctly & Incorrectly, with and without errors.
- **GUI:** Checking for spelling errors, numerical mistakes.
- **Integration:** Testing the integration between at least two or more systems
- **Usability:** Testing the UX/UI
- **Accessibility:** Testing features on the software to see if they are accessible to people with disabilities.
- **Exploratory:** involves simultaneously learning about the system, designing test cases, and executing tests to uncover defects through creative and intuitive testing approaches.
- **Compatibility (Mostly GUI):** testing operating systems and browsers to check if the system works on and whether it functions on them.
- **Error Handling:** Error messages to inform the user of what happened and what the mistake is
- **Security:** Evaluating the security measures in place to protect user data, focusing on login security to prevent unauthorized access and ensure user data protection.

## 2. Types of Testing That Cannot be Done

- **Recovery:** evaluates the system's ability to recover from crashes, hardware failures, or other major issues. will not be performed due to the lack of necessary resources and tools in our current testing environment.
- **Performance:** involves evaluating the responsiveness, speed, scalability, and stability of a system under a specified workload.

## 3. Testing Tools

Tools and software to be used:

- **Test Management Tools:** Google Drive, Office.
- **Bug Tracking Tools:** Bug report file
- **Compatibility Test Tools:** Computers with Various OS's, Various Browsers.
- **Functional Test Tools:** User accounts, Company Credit card, Access to API.

# V. Test Environment

The test environment will consist of the following:

- **Production Environment:** Opera Windows 10, Chrome Windows 11, Brave Windows 11.

# VI. Deliverables

The following deliverables will be produced:

- **STP:** Detailed document outlining the testing approach and activities.
- **STD:** Document containing detailed test cases.
- **STR:** Summary of test results and findings.
- **Bug Reports:** Reports detailing identified defects.

# VII. Entry and Exit Criteria

## 1. Entry Criteria

- The feature list for testing the Shufersal website has been finalized and agreed upon.
- All test environments are set up and configured.
- Resource Availability: Test data, including user accounts and product information is available and ready for use in testing.
- Standard formats for documentation including test cases, bug reports, and other relevant documents, are prepared and available.

## 2. Exit Criteria

- 80% of planned tests have been executed on the Shufersal website.
- All bugs have been documented in the agreed format.
- Bugs found do not highly impact users ability to interact and use the site.
- The Test Summary Report, summarizing the testing activities, results, and findings, has been prepared, reviewed, and approved by the QA team.

# VIII. Risk Management

Potential risks and mitigation strategies:

| Risk | Impact | Mitigation |
|---|---|---|
| Lack of Coordination between team members. | High | Starting each meeting with delegating responsibilities to each team member. |
| Availability of website | High | N/A |
| Inconsistent documentation that can lead to misunderstandings | Medium | Working in an understandable and consistent format and communicating with team members |

# IX. Communication and Reporting

Communication protocols and reporting mechanisms:

- Daily stand-ups each meeting.
- Access to shared documents & Bug reports.

# X.  Bug Reporting Guidelines

This section will provide detailed instructions on how bugs should be documented to ensure consistency and clarity in reporting.

1. **Bug Title:** Provide a clear title for the bug that summarizes the issue.
2. **Bug Description:** Include a detailed description of the bug, explaining what the problem is and how it affects the system.
3. **Steps to Reproduce:** List all the steps required to reproduce the bug.
4. **Expected Result:** Describe what the expected behavior of the system should be when following the steps above.
5. **Actual Result:** Describe what actually happens when following the steps.
6. **Bug ID:** Assigned ID for tracking purposes.
7. **Severity:**
   a. **Low -** Minor issue that does not significantly impact functionality or usability, and can be easily resolved.
   b. **Medium -** Issue that affects functionality or usability but has feasible workarounds, and does not critically impair core system features.
   c. **High -** Significant issue that affects core functionality or usability, without viable solutions, and requires urgent attention to prevent further impact.
   d. **Critical -** Critical issue that causes core functionality unusable, jeopardizes system integrity or security, and requires immediate resolution to maintain system operability.
8. **Notes, Including Environment Details:** Include any additional notes relevant to the bug.