

# **TEST STRATEGY FOR Anna Cori website**

## PROJECT NAME: ANNA CORI WEBSITE

### DOCUMENT CONTROL

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### DOCUMENT SIGN-OFF

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# 1 INTRODUCTION

The Anna Cori website is an established e-commerce platform that provides customers with an easy and convenient way to purchase products online. The goal of this website is to continue to improve the user experience and increase sales and customer satisfaction.

The target audience for this website is a wide range of customers looking to purchase products online. The testing must consider the need for a responsive design that works well on various devices and screen sizes, as well as the requirement for robust security features.

Manual testing will be used to verify the functionality of the user interface and to perform exploratory testing.

The test strategy will cover functional testing, as well as testing across different devices, browsers, and platforms.

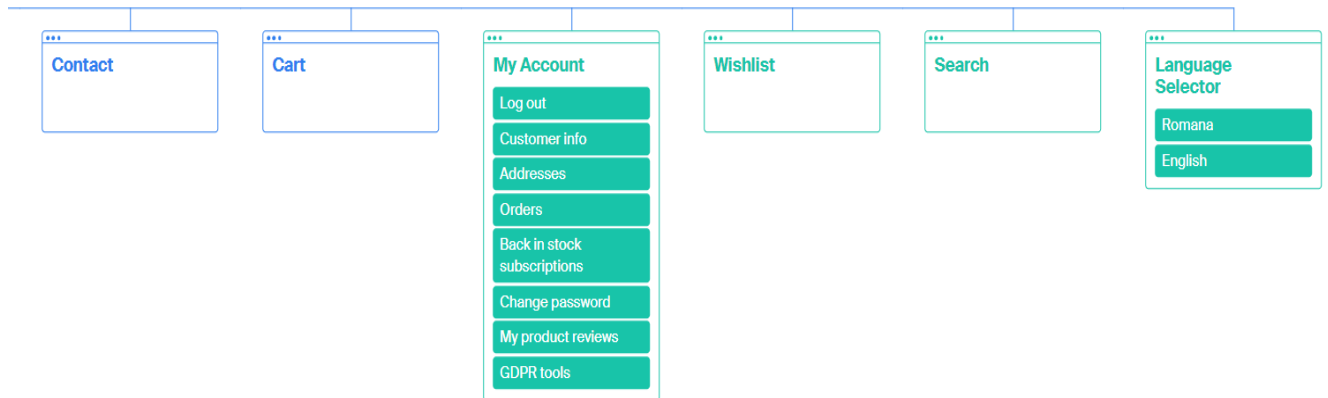
## 2 PURPOSE

The purpose of testing for this website is to verify that website meets the customers needs, identify any bugs, and evaluate the performance of the website. The testing will focus on the main features of the website, including the navigation, shopping cart, login dialogue, mobile view, and contact form.

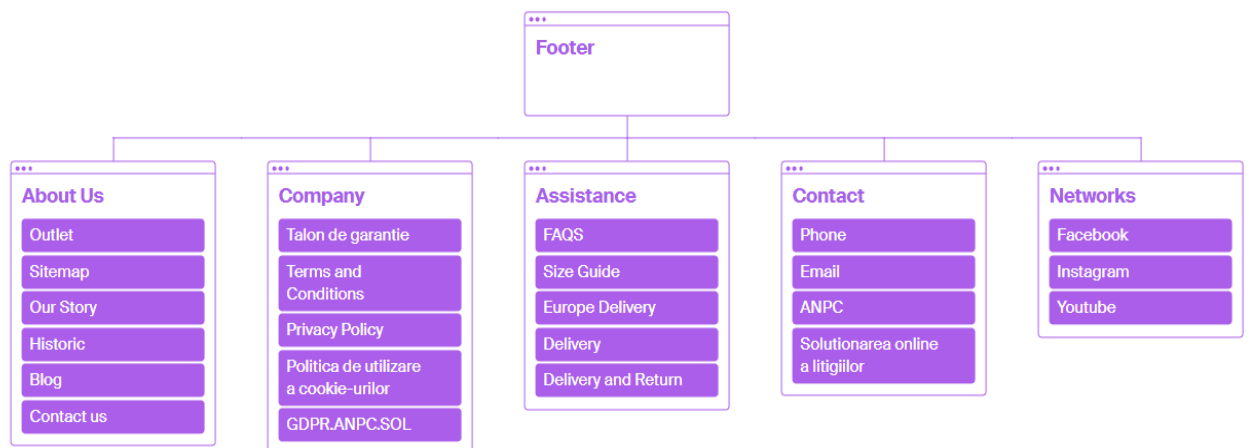
## 3 SYSTEM OVERVIEW

The System Under Test (SUT) consists of the following components:





SECTION



Link: <https://octopus.do/jelctku168e>

## 4 SCOPE OF TESTING

### 4.1 IN SCOPE

The types of testing that are in-scope are:

- Static Testing
  - Requirements
  - Architecture
- Security Testing
- Functional Testing
- Non-functional Testing
  - Browser compatibility
  - Mobile compatibility
- Usability Testing
- Exploratory Testing

### 4.2 OUT OF SCOPE

The types of testing that are out of scope are:

- User Acceptance Testing (this will be performed in the development's environment but will be planned and executed by the client)
- Accessibility testing
- Regression Testing
- Recovery Testing



## 5 APPROACH TO TESTING

The following section describes the high-level approach to testing.

### 5.1 PRINCIPLES & APPLICATION

#### 5.1.1 Principle

1. Testing shows the presence of defects, not their absence
2. Absence-of-errors is a fallacy
3. Testing is context dependent
4. Exhaustive testing is impossible
5. Early testing saves time and money
6. Beware of the pesticide paradox
7. Defects cluster together

#### 5.1.2 Application

1. *Testing shows the presence of defects, not their absence*- after testing the website in the production environment using functional tests, various bugs were detected, such as breach of login security.
2. *Absence-of-errors is a fallacy* - every product has an error, applying exploratory tests the bugs were detected
3. *Testing is context dependent* – testing the website on different browsers, operating systems, and devices to ensure the website is compatible with different platforms
4. *Exhaustive testing is impossible* - testing under all conditions is impossible, so it was focused on the most important and risky sections of the website such as login dialogue, the shopping cart, the main page of website
5. *Early testing saves time and money* – starting tests as early as possible helps to identify defects early on, which can be fixed more easily and cost-effectively
6. *Beware of the pesticide paradox* – as the same tests are repeatedly used, the same defects will be repeatedly found, for example, in the second sprint more tests were performed on mobile devices
7. *Defects cluster together* – a small number of pages or features might contain most of the defects

## 5.2 TEAM – AGILE

Testing is the process of evaluating a system or its component(s) with the intent to find whether it satisfied the specified requirements or not. It is an essential part of the software development process that helps to identify defects or issues early on.

Each dimension of testing is important and helps to ensure that the website is functioning as expected, is secure, and is easy to use, and meets industry standards.

This project will be delivered using the Agile methodology.

Agile Principles impacting testing include:

- Encourage continuous testing, this allows for earlier identification of bugs, and reduce risk
- Collaboration between the development and testing team
- Prioritization of testing based on the business needs
- Changes and adjustments can be made throughout the development process, making it easier to adapt to changes or unexpected issues that arise during testing
- Testing focuses on delivering small and frequent releases, which allows for better test coverage

## 5.3 FIRST SPRINT

### 5.3.1 Objective

The objective of First Sprint is to ensure that features, such as flyout cart, and functionality of buttons, links from main page are working as expected. Also, to ensure that website is user-friendly and that it is secure.

### 5.3.2 Scope

The scope of testing for First Sprint is:

- Functional Testing – the functionality of buttons and links from homepage to ensure that they are working correctly
- Usability Testing – to ensure that it is easy to navigate and will evaluate the user interface
- Security Testing – to ensure that it is secure and protected

### 5.3.3 Test Preparation

1. Identify the objectives and the scope of the testing – the testing objectives are to ensure that website functions correctly and that it is secure. The scope of testing includes the user login and functionality of the main page.
2. Create a test completion report for First Sprint – the report provides an overview of what is in scope and out of scope in first sprint, test environments and, the issues which have been identified during the testing
3. Create a test plan – the test plan includes the testing objectives, scope, roles, and responsibilities of the testing team
4. Identify and prioritize user stories – user stories as homepage of website, log in dialogue and flyout cart have been prioritize in the first sprint
5. Identify and prioritize test cases – test cases have been identified for the user log in process, functionality of the flyout cart and a good navigation from the homepage

#### **5.3.3.1 Entry Criteria**

- Development phase is complete
- Unit testing is complete
- Test plan is complete

#### **5.3.3.2 Exit Criteria**

- All test cases have been executed
- All bugs have been identified and reported
- All bugs have been fixed

#### **5.3.4 Test Execution**

1. Review the Test Completion Report no.1 to ensure that all US are correctly reported, and information is clear
2. Review Test Plan to ensure that all the testing objectives, scope, roles, and responsibilities are clear
3. Execute exploratory testing of the website to ensure that it is stable for testing
4. Execute the test cases according to the test schedule
5. Report the test result and that all bugs have been identified and fixed

## **5.4 SECOND SPRINT**

### **5.4.1 Objective**

The objective of Second Sprint is to ensure that website is easy to navigate on different devices, such mobile device, products are displayed as expected by business and a clear contact form for customer.

### **5.4.2 Scope**

The scope of testing for Second Sprint is:

- Functional Testing – testing the new features such as contact form and flyout cart
- Usability Testing – to ensure that new features are easy to use
- Compatibility Testing – to ensure that website is compatible with different browsers and devices

### **5.4.3 Test Preparation**

1. Identify the objectives and the scope of the testing – the testing objectives are to ensure that website is compatible with different browsers and devices, flyout cart is functional and all the items are displayed properly
2. Create a test completion report for Second Sprint – the report provides an overview of what is in scope and out of scope in first sprint, test environments and, the issues which have been identified during the testing
3. Create a test plan – the test plan includes the testing objectives, scope, roles, and responsibilities of the testing team
4. Identify and prioritize test cases – identify and prioritize the test cases for the new features such as mobile view, flyout cart and Denis Handmade page.

#### **5.4.3.1 Entry Criteria**

- First Sprint is complete
- Test Plan is approved
- Sprint backlog is updated

#### **5.4.3.2 Exit Criteria**

- All test cases have been executed
- All bugs have been identified and reported
- All bugs have been fixed

#### **5.4.4 Test Execution**

1. Review the Test Completion Report no.2 to ensure that all US are correctly reported, and information is clear
2. Review Test Plan to ensure that all the testing objectives, scope, roles, and responsibilities are clear
3. Execute exploratory testing of the website to ensure that it is stable for testing
4. Execute the test cases according to the test schedule
5. Report the test result and that all bugs have been identified and fixed
6. Collection and archiving of all test data

## **6 TEST ENVIRONMENTS REQUIREMENTS**

The Test environment(s) will be configured as shown below:

### **6.1 PRODUCTION ENVIRONMENT**

The production environment of Anna Cori website is managed by Product Owner and a dedicated DevOps team. Access to the test environment must be restricted.

## 7 TEST DATA REQUIREMENTS

Module Name	Test Scenario ID	Test Case ID	Test Case Name	Email	Password	Comments
Login Module	TS_001	TC-1	Login dialogue accepts correct email and password combination	danaarvinti@gmail.com	Test123_99	Valid
		TC-12	User is not able to login with INCORRECT email and CORRECT password	da!*naarvintif@gmail.com	Test123_99	Special Characters in email
		TC-13	User is not able to login with a Blank email and CORRECT password	N/A	Test123_99	Blank email
		TC-4	Verify User is NOT able to login with CORRECT User Id and INCORRECT Password	danaarvinti@gmail.com	Test5500@	Invalid
				danaarvinti@gmail.com	GG_88!	Invalid
				danaarvinti@gmail.com	Rlab-71!	Invalid
		TC-2	Password is displayed in encrypted format	N/A	Test123_99	Valid
Homepage	TS_002	TC-9	Slide Menu Functionality	N/A	N/A	Valid
		TC-10	The background images are displayed properly on the different devices	N/A	N/A	Valid
		TC-11	Search button replace the main menu	N/A	N/A	Valid
Contact Form	TS_003	TC-8	As a registered user, the name and email fields will be automatically filled with the user's data	danaarvinti@gmail.com	Test123_99	Valid
		TC-14	User is not able to submit a contact form with an invalid email	danaarvintigmail.com	N/A	Invalid
				@gmail.com	N/A	Invalid
				Blank	N/A	Blank email
Cart	TS_004	TC-7	View quantities and items in the flyout cart	N/A	N/A	Valid
Denis Handmade page	TS_005	TC-5	A price tag accompanies the items	N/A	N/A	Valid
Mobile View	TS_006	TC-3	The cookie pop-up banner on mobile view	N/A	N/A	Valid

## 8 TESTING TOOLS & TECHNIQUES

The tools inside the testing discipline are in a permanent process of evaluation and customization so that they can offer the best solution in the right context; however, the tools described in the following sections are proposed for use in this project.

Examples:

- Browser Stack
- JIRA
- Testiny website
- Windows 10
- Mobile device
- Octopus website
- Snipping tool
- Planning poker online
- Microsoft Office

### 8.1 TEST MANAGEMENT & DEFECT TRACKING

Bug ID	Bug Name	Description	Creator	Created on	Severity	Priority	Status
AC-11	Responsive Design	When the browser is resized manually the items of the menu are collapsed under a hamburger icon. When the hamburger icon is clicked, a menu should expand, and the menu items should be shown.	Arvinti Daniela	08/01/2023	Medium	Medium	In Progress
AC-10	Authentication security breach	A user is allowed access to as many logins attempts as he/she may wish. This can result in a security breach by allowing an attacker to gain access to an account credentials by using the brute force attack.	Arvinti Daniela	08/01/2023	Highest	Highest	In Progress

AC-13	Instagram link functionality	The Instagram link <a href="https://www.instagram.com/annacori.official">https://www.instagram.com/annacori.official</a> , located in the footer section of the website, doesn't open from browser Google Chrome (Version 108.0.5359.125) and from browser Microsoft Edge (Version 109.0.1518.52).	Arvinti Daniela	16/01/2023	Medium	Medium	In Progress
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## 9 TESTING ROLES & RESPONSIBILITIES

The following table shows the testing roles for the project, together with the individuals involved in the testing effort.

Activity	Responsibility/Ownership	Name
Test Plan Creation	Test Manager	Mariana Dudau
Test Phase Plan Creation	Test Lead	Claudiu Balcu
Test Analysis and Design	Test Analysts and Test Designers	Iordache Cristina, Corina Mihalcea-Maxim
Test Preparation, Execution & Results	Test Team	Alex Pocovnicu, Galicza George, Cotlan Alexandru
Test Completion Reporting	Test Lead	Claudiu Balcu
Test Environment Deployment	Test Engineers	Alex Iulian, Sabin Roescu

### 9.1 TEST MANAGER

The test manager is responsible for coordinating with other teams, such as development, project management, and business team, to ensure that testing is integrated into the overall project plan and that testing is aligned with the business objectives. Also, test manager is responsible for creating a testing plan that outlines the testing approach, methodologies, and tools to be used for the project.

### 9.2 TEST LEAD

The test lead is responsible for planning, organizing, and managing the testing efforts for a project. As part of this, test lead will create the test phase plan which outlines the objectives, scope, resources, and schedule for testing.



Also, the completion report will be managed by Test Lead, the reports summarize the testing activities that were performed, the user stories, and any issues that were identified during testing.

### **9.3 TEST ANALYSTS AND TEST DESIGNERS**

The test analysts are responsible for analysing the system's requirements and the test designers are responsible for creating the test cases and test procedures. They will work with development team to understand the system functionality.

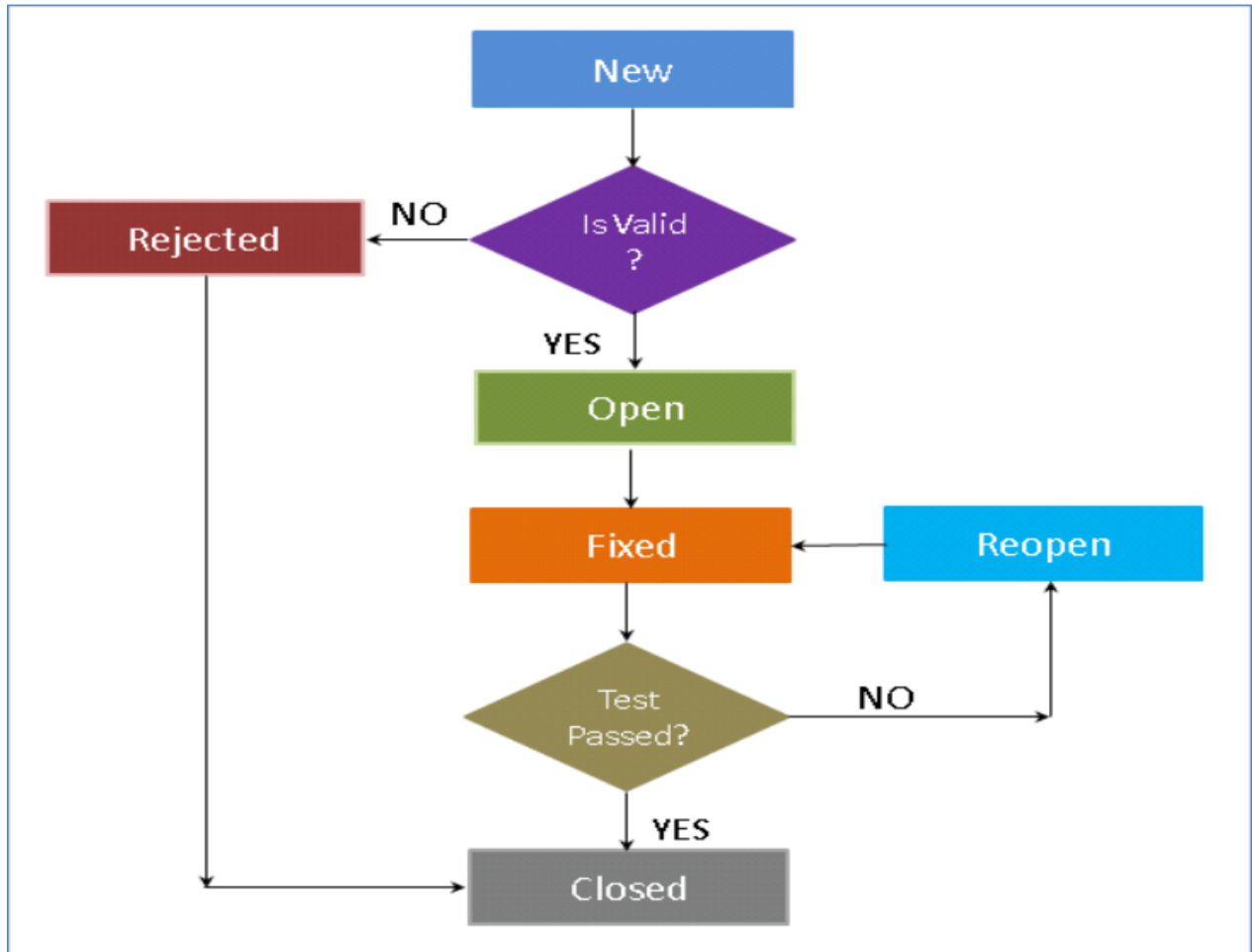
### **9.4 TEST TEAM**

Test preparation includes tasks such as setting up the test environment, configuring the test data, and preparing the test cases and test procedures. Also, it includes running the test cases and recording, reporting the results.

### **9.5 TEST ENGINEERS**

Test Engineers are responsibly for deploying test environment, working closely with the test manager or test lead and the development team, to ensure that environment is set up and configured correctly.

## 10 DEFECT MANAGEMENT



### 10.1 DEFECT MANAGEMENT PROCESS

- Defect identification – a tester identifies a defect while performing manually or exploratory testing and records it in the defect tracking system
- Defect reporting – the tester creates a defect report that includes title, description, steps to reproduce, actual and expected result, also, attach video, print screens etc.
- Defect Verification and Validation – team verifies and validates the defect
- Defect Resolution – the developer works on resolving the defect
- Defect Retesting – the tester retests the defects to ensure that it has been correctly resolved
- Defect Closure – once the defect has been resolved and retested, it is closed
- Defect Reopening – if the defect is found again after it has been closed, it is reopened and reassigned to the developer for resolution

# 11 TEST SCHEDULE

## 11.1.1 Test Phase 1

The following table shows the high-level testing milestones for this phase of the project.

Ref No	Stage	Project Milestone	Due date
TM001	Test Planning Stage	Test Plan document completed	01/06/2023
TM002	Test Planning Stage	Test Strategy document completed	01/25/2023
TM003	Test Planning Stage	Test Schedule completed	01/08/2023
TM004	Test Preparation Stage	Preparing user stories	01/10/2023
TM005	Test Preparation Stage	Preparing the Test Cases	01/11/2023
TM006	Test Preparation Stage	Test site Architecture completed	01/13/2023
TM007	Test Execution Stage	Execution of User Stories Sprint 1 completed	01/15/2023
TM008	Test Execution Stage	Execution of User Stories Sprint 2 completed	01/18/2023
TM009	Test Execution Stage	Execution of Test Cases completed	01/19/2023
TM010	Defect Management Stage	Reporting bugs	01/20/2023
TM011	Test Completion Report	Test Completion Report no.1	10/21/2023
TM012	Test Completion Report	Test Completion Report no.2	10/21/2023
TM013	Test Completion Report	Metrics report	10/25/2023
TM014	Test Closure	Documentation uploaded to the confluence space	10/26/2023
TM014	Test Closure	Document archiving completed	10/26/2023

# 12 REFERENCED DOCUMENTS

The following table identifies the documentation used for developing this Test Strategy:

#	Document	Author	Description
1	Test Plan	Test Manager	This document provides information regarding what specific testing will be completed on the Project.
2	Test Confluence reports	Test Lead	
3	Website's Architecture	Test Lead	The diagram shows the architecture of the website
4	Test Strategy	Test Manager	Document describes the overall approach and objectives for testing
5	Metrics report	Test Manager	Documents describes performance of the project