**Lesson 5 - Test Documentation**

Level 1

**1. Make a comparative table of the three types of test documentation:**

| Name of Test Documentation | No | Main Characteristics | Advantages | Disadvantages |
| --- | --- | --- | --- | --- |
| Checklist |  | A list of specific tasks or items to be checked or verified during testing. | -Simple and easy to create.  - Quick execution.  - Suitable for repetitive and straightforward tests. | - Limited coverage, as it focuses on specific tasks.  - Not suitable for complex scenarios.  - May miss interactions between tasks. |
| Test Case |  | Detailed test scenario description, including preconditions, steps, and expected results. | - Provides detailed and structured testing instructions.  - Allows for thorough test coverage.  - Easy to track and document test results. | - Time-consuming to create for complex systems.  - Can become outdated if not correctly maintained. - May only cover some possible scenarios. |
| Use Case |  | Describes how a system or component interacts with external entities or actors to achieve a specific goal. | - Helps in understanding system functionality in a broader context.  - Useful for requirement analysis and system design.  - Promotes user-centric testing. | - Not as detailed as test cases for specific testing instructions.  - May not cover all edge cases or negative scenarios.  - Requires a good understanding of system architecture. |

**2. Make a checklist for testing the main page of your favorite online store (https://www.amazon.com/,** [**https://www.mrporter.com/en-fr/,https://www.asos.com/**](https://www.mrporter.com/en-fr/,https://www.asos.com/)**)**

Website loading speed

Browser Compatibility

Navigation

Content and Layout

Registration and Login

Shopping Cart

Localization (main page support for different languages and regions)

Content updates

Level 2

**Create five positive and five negative test cases to check the basic functionality of your favorite online store.**

| **Test Case P1** | Create an Account at <https://www.emp-shop.se/> |
| --- | --- |
| Tested Data | Test the ability to create an account with a valid username, email, and password credentials. |
| Test Steps | 1. Enter a username that has at least five characters  2. Enter a valid email address format  3. Enter a password that respects the format  4. Enter the confirmed password that matches the chosen password  5. Click on agree on the terms  6. Click on Register account |
| Expected Result: | The user should be able to create a new account. |
| Actual Result | Account created. |

| **Test Case P2** | Open <https://www.emp-shop.se/> on Chrome Version Version 117.0.5938.132 |
| --- | --- |
| Tested Data | Test the ability to open the <https://www.emp-shop.se/> website on Chrome Version Version 117.0.5938.132 |
| Test Steps | 1. Open Chrome Version Version 117.0.5938.132 2. Type <https://www.emp-shop.se/> in the address bar. |
| Expected Result | Chrome should open the <https://www.emp-shop.se/> website. |
| Actual Result: | The <https://www.emp-shop.se/> website opened successfully. |

| **Test Case P3** | Add a product to the cart. |
| --- | --- |
| Tested Data: | The ability to add a leather jacket to the cart. |
| Test Steps | 1. Open <https://www.emp-shop.se/> in the browser. 2. Type “leather jacket” in the case “What are you looking for?” in the upper right corner. 3. Select “Chasey Gipsy Leather Jacket” from the displayed products. 4. Choose the M-size. 5. Press Add to Cart. |
| Expected Result: | The Leather Jacket should be added to the cart. |
| Expected Result: | The Leather Jacket was added to the cart successfully. |

| **Test Case P4** | Search for a product. |
| --- | --- |
| Tested Data | The ability to find Pikachu T-shirts on <https://www.emp-shop.se/> website. |
| Test Steps | 1. Open <https://www.emp-shop.se/> in the browser. 2. Type Pikachu T-shirts in the search case. |
| Expected Result: | All Pikachu T-shirts should be displayed. |
| Actual Result | Pikachu T-shirts are displayed successfully. |

| **Test Case P5** | Wishlist Management. |
| --- | --- |
| Tested Data: | The ability to add products to the wishlist. |
| Test Steps | 1. Open <https://www.emp-shop.se/> website. 2. Type Nightwish T-shirt in the search case. 3. Select Stone Angel/Nightwish/T-shirt from the displayed results. 4. Add the product to the wishlist. |
| Expected Result: | The Stone Angel/Nightwish/T-shirt should be added to the wishlist. |
| Actual Result: | The Stone Angel/Nightwish/T-shirt has successfully been added to the wishlist. |

| **Test Case N1** | Invalid login credentials. |
| --- | --- |
| Tested Data | Attempt to log in with invalid credentials. |
| Test Steps | 1. Type a username that contains symbols. 2. Enter an email format: [a@b.com](mailto:a@b.com). 3. Press Log in |
| Expected Result | The user should not be able to Log in to the account. |
| Actual Result: | The system is not allowing the user to Log in. |

| **Test Case N2** | Duplicate account registration. |
| --- | --- |
| Tested Data | Attempt to register a new account with an email address that is already associated with an existing account. |
| Test Steps | 1. Enter an already existing username. 2. Enter an already existing email address. 3. Enter a new password that respects the format. 4. Enter the confirmed password that matches the chosen password. 5. Click on the agree on the terms. 6. Click on Register Account. |
| Expected Result: | The system should prevent the registration and inform the user that the email address is already in use. |
| Actual Result: | The system prevents the registration and informs the user that the email address is already in use. |

| **Test Case N3** | URL manipulation for <https://www.emp-shop.se/> |
| --- | --- |
| Tested Data | Modify a URL manually by altering parameters or navigating to a restricted page. |
| Test Steps | 1. Open a new page in the browser. 2. Type <https://www.empshop.se/> |
| Expected Result | The system should show an error message: This site can’t be reached. |
| Actual Result: | The system displays the message: This site can’t be reached. |

| **Test Case N4** | Shopping cart: exceeding the quantity limit. |
| --- | --- |
| Tested Data: | Add a product to the shopping cart with a quantity exceeding the maximum allowed limit. |
| Test Steps | 1. Open a new page on a browser. 2. Type <https://www.emp-shop.se/>. 3. Click on the \*Shoes\* section from the bar menu. 4. Select “Gaming Merch” from the displayed results. 5. Select “Psycho Bandit | High sneakers | multicolored | Borderlands”. 6. Select size 38. 7. Add the product to the cart. 8. Go to the cart section and edit the order. 9. Edit the quantity to 50. |
| Expected Result: | The system should prevent the user from adding more than the allowed quantity and display an error message. |
| Actual Result: | The error message is displayed: you have reached the maximum approved quantity for this order. |

| **Test Case N5** | No results were found. |
| --- | --- |
| Tested Data: | Perform a search for a product that does not match any items or content in the database. |
| Test Steps | 1. Open a new page in a browser. 2. Type [www.emp-shop.se](http://www.emp-shop.se). 3. Write “tomato” in the search bar. |
| Expected Result: | The system should display a message indicating that no results were found for the product. |
| Actual Result: | The system displays the message: Your search tomato returned no results. |

Level 3:

**You are the founder of a startup planning to launch a mobile application for sharing cat photos on iOS and Android devices.**

**The startup has a team of 3 developers (Back-End, iOS, and Android). You provide requirements and use cases as the main stakeholder.**

**Create a test plan that will allow you to release a product of proper quality.**

| **Cat Photo Sharing App** | | **Introduction:** | The purpose of this test plan is to outline the testing approach and strategy for the Cat Photo Sharing mobile application, ensuring it meets quality standards before release. |
| --- | --- | --- | --- |
| 1-st Milestone | 03.10.2023 | **Objective:** | Ensure the app functions correctly according to specified requirements.  Identify and rectify usability, performance, and security issues.  Verify compatibility across various devices and OS versions.  Maintain and enhance overall product quality. |
| Delivery date | 21.11.2023 | **Principles:** | Regular communication and collaboration among stakeholders, developers, and the QA team will be vital to the successful implementation of this plan. |
| **In Scope** | | **Entry Conditions (for test execution):** | **People** |
| 1. Functional testing |  | 1. Test documentation. | 1. Project manager: 1 |
| 2. Usability testing. |  | 2. Test environment validation. | 2. Scrum master: 1 |
| 3. Performance testing. |  | 3. Bug tracking system. | 3. Business Analyst: 1 |
| 4. Security testing. |  | 4. Communication and collaboration. | 4. Development team: 2 DEV |
| **Out of Scope** | | **Exit Conditions (for test execution):** | 5. Testers: 2 QA |
| 1. Automation testing | | 1. All high and medium-priority defects are resolved. | **Test Environment** |
|  |  | 2. Test cases have been executed and passed with no critical issues. | iOS devices  Android devices  Various OS versions for both iOS and Android |
|  |  | 3. Security vulnerabilities are addressed. | **Timescales (each iteration)** |
|  |  | **Risks** | 1. Test planning and preparation: Weeks 1-2 |
|  |  | 1. Technical risks: compatibility, performance, and security. | 2. Test execution: Weeks 3-5 |
|  |  | 2. Quality Assurance: Bugs and Glitches. | 3. Bug reporting and retesting: Weeks 6-7 |
|  |  | 3. Budget overruns. | 4. Final testing and report: Week 8 |
|  |  | 4. Competitive risks: market saturation or competitive innovation. |  |