

## **Test Plan for an Online Shopping Website**

### **Test Plan**

This test plan outlines the testing strategy for an online shopping website utilizing some automated testing tools. It ensures the online shopping website operates effectively, securely and meets user expectations.

### **Test Objectives**

- Ensure all features function correctly.
- Verify that the website is secure and reliable
- Assess performance under load
- Ensure compatibility across various devices and browsers.

### **Test Design and Types**

The testing approach will include various types of tests to ensure comprehensive coverage:

#### **1. Black-Box Testing**

- Focuses on testing the functionality of the application. Testers will validate outputs based on specific inputs.
- Most functional test cases (e.g., product search, checkout process) will be designed using this method.

#### **2. Experience-Based Testing**

- Relies on the tester's experience to identify potential issues. This includes exploratory testing and using past experiences.
- Usability testing and exploratory testing of new features will be based on tester experience.

#### **3. Regression Testing**

- Ensures that new code changes do not affect existing functionalities. This type of testing is useful after updates or bug fixes.
- After any changes, a suite of existing test cases will be executed to confirm that previously working features continue to function correctly.

#### **4. Maintenance Testing**

- Conducted to ensure that the application continues to function as intended after os updates, system patches, environment changes, or maintenance activities.
- Regular checks will be performed on the website after updates to verify that no new issues have emerged.

## **Test Scope**

The following areas will be covered in testing:

### **1. User Interface (UI) Testing**

Verify the layout, design, and responsiveness of the website.

### **2. Functional Testing**

Test functionalities such as product search, filtering, cart operations, checkout process, payment processing, and delivery options.

### **3. Performance Testing**

Assess the website's performance under various load conditions.

### **4. Security Testing**

Ensure user data protection and secure transactions.

### **5. Compatibility Testing**

Validate the website's compatibility across different browsers and devices.

### **6. Usability Testing**

Evaluate the ease of use and overall user experience.

## **Resources**

Testers: QA team

Tools: Cypress for functional testing and end-2-end front-end user testing  
Appium for mobile application and UI testing

## **Sample Test Cases**

### **1. User Interface Testing**

Test Case ID: UI-01

Objective: Verify the website layout on mobile and desktop.

Method: Cypress

Steps:

1. Visit the homepage.
2. Check for responsive design on different screen sizes.

Expected Result: All elements should be properly aligned and visible.

## **2. Functional Testing**

### Test Case ID: FT-01

Objective: Validate product search functionality.

Method: Cypress

Steps:

1. Visit the homepage.
2. Enter a product name in the search bar.
3. Click the search button.

Expected Result: Relevant products should be displayed.

### Test Case ID: FT-02

Objective: Test cart functionality.

Method: Cypress

Steps:

1. Add a product to the cart.
2. Open the cart.
3. Verify the product is listed with the correct details.

Expected Result: Product should be correctly displayed in the cart.

### Test Case ID: FT-03

Objective: Test the checkout process.

Method: Cypress

Steps:

1. Add products to the cart.
2. Click on the cart icon.
3. Proceed to checkout.
4. Enter shipping information.
5. Select a delivery option.
6. Enter payment details.
7. Confirm the order.

Expected Result: Order confirmation page should be displayed upon successful checkout.

### Test Case ID: FT-04

Objective: Validate payment processing.

Method: Cypress

Steps:

1. Proceed to payment during checkout.
2. Enter valid credit card details.
3. Submit payment.

Expected Result: Payment should be processed successfully.

Test Case ID: FT-05

Objective: Test delivery options.

Method: Cypress

Steps:

1. Proceed to checkout.
2. Enter shipping information.
3. Select a delivery option

Expected Result: Selected delivery option should be correctly reflected in the order summary.

### **3. Performance Testing**

Test Case ID: PT-01

Objective: Assess website load time.

Method: Use Cypress for basic performance checks

Expected Result: Load time should be under a pre-set time duration.

### **4. Security Testing**

Test Case ID: ST-01

Objective: Check for web application security and reliability

Method: using the web application security testing tools.

Expected Result: No vulnerabilities should be found.

Test Case ID: ST-02

Objective: Authentication, Login and user profile protection

Method: using the web application security testing tools.

Expected Result: No vulnerabilities should be found.

### **5. Compatibility Testing**

Test Case ID: CT-01

Objective: Verify website functionality on multiple browsers and devices

Method: Cypress supports cross-browser testing. Go through the testing with different devices

Expected Result: The website should function correctly on supported browsers and devices.

### **6. Usability Testing**

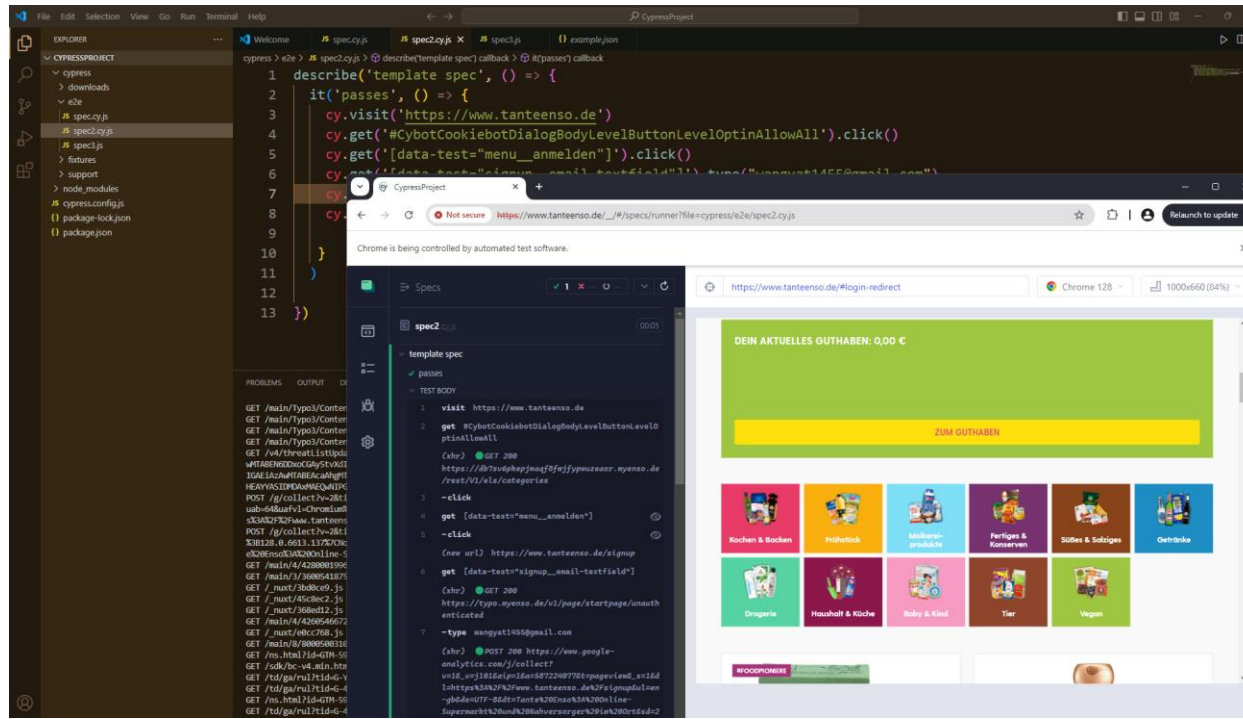
Test Case ID: UT-01

Objective: Evaluate navigation ease.

Method: Use Cypress for automated navigation tests and gather user feedback.

Expected Result: Users should be able to navigate easily through categories and products.

## Automated Testing Tool (Cypress)



**Defect Report (template)**

Defect ID:	Date/Time:	Tester:
Test case ID and summary description:		
Expected result:		
Actual result:		
Environment info:		
[Browser version:                      ] [operating system:                      ] [Device:                      ]		
Severity (1-5, 5 is highest):		
Priority to fix (1-5, 5 is highest):		
Status of the Defect (Open/Resolved/Closed)		
Assigned to:	Report date:	
Reviewed by:	Date resolved:	
Supplementary info (Screens, logs, files, messages):		
Followup action (if any):		

### Log Sheet for testing results, findings and followup actions (Template)

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