**Test Document**

for

**Project Title: Online Shopping App**

*Submitted in partial fulfilment of the academic requirements*

*For the award of the degree of*

**BACHELOR OF TECHNOLOGY**

in

**COMPUTER SCIENCE AND ENGINEERING**

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**2024-25**

**Test Document: Online Shopping App**

**1. Test Objective**

To ensure the Online Shopping App functions correctly, provides a seamless user experience, and meets performance, usability, and security standards.

**2. Scope of Testing**

* User Registration & Login
* Product Search & Filters
* Product Details Page
* Shopping Cart Functionality
* Checkout & Payment
* Order Tracking
* Wishlist
* Notifications
* Profile Management
* Performance & Security

**3. Test Environment**

* **Devices:** Android (v10+), iOS (v13+), Web Browsers (Chrome, Safari, Firefox)
* **Backend:** RESTful APIs
* **Database:** MySQL

**4. Test Cases**

**✅ User Registration & Login**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Steps** | **Expected Result** |
| TC001 | Register with valid credentials | Enter email, password, confirm password, tap "Register" | User account is created, user is logged in |
| TC002 | Login with incorrect password | Enter registered email and wrong password | Error message shown: "Invalid credentials" |

**🔍 Search & Filters**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Steps** | **Expected Result** |
| TC101 | Search for product | Type "headphones" in search bar | Relevant products displayed |
| TC102 | Apply price filter | Set range $50–$100 and apply | Products within selected price range shown |

**🛒 Shopping Cart**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Steps** | **Expected Result** |
| TC201 | Add item to cart | Tap "Add to Cart" on a product page | Item appears in shopping cart |
| TC202 | Remove item from cart | Go to cart, tap "Remove" | Item is removed from cart |

**💳 Checkout & Payment**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Steps** | **Expected Result** |
| TC301 | Place an order with valid card | Select items, go to checkout, enter valid card details | Order is placed, confirmation shown |
| TC302 | Payment failure with invalid card | Use expired card | Error message displayed, order not placed |

**👤 User Profile**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Steps** | **Expected Result** |
| TC401 | Edit profile info | Navigate to profile, update name and address | Updated info saved successfully |
| TC402 | Change password | Go to settings, change password | Password changed, re-login required |

**5. Non-Functional Testing**

* **Performance Testing:** App loads homepage within 3 seconds.
* **Security Testing:** User data is encrypted and protected.
* **Usability Testing:** User can complete a purchase within 5 steps.

**Conclusion**

The testing of the Online Shopping App ensures that all critical functionalities—from user registration to product checkout—are working as intended across different devices and platforms. By covering both functional and non-functional aspects, the tests aim to deliver a reliable, user-friendly, and secure shopping experience.

All test cases are designed to identify potential issues early, enhance app performance, and ensure compliance with quality standards. Based on the results of these tests, recommendations for fixes, improvements, or optimizations can be made before the app is released or updated.

Continuous testing, especially with real user feedback and across various scenarios, will help maintain the app’s performance, usability, and competitiveness in the market.