TEST PLAN

Online Apparels shopping Website

**VERSION HISTORY**

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| **Version** | **Written by** | **Revision Date** | **Approved By** | **Approval Date** |
| 1.0 | Rene Kounkou | 04/24/2022 |  |  |

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**INTRODUCTION**

The Test plan is designed to prescribe the scope, approach, resources and schedule of all testing activities of the project Online Apparels shopping Website.

The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

1. **TEST STRATEGY**
   1. **Scope of Testing**
2. **Features to be tested**

All the features and items of the Online Apparels shopping Website defined in the Business Requirement Document that need to be tested.

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| **Req#** | **Priority** | **Description** | **Rationale** | **Impacted**  **Stakeholders** |
| FR-001 | 1 | Login |  User will be able to login into the website using the email and password.   Reset password option for the users to reset the password in case of forgot password.   User will also be able to login into website using Facebook and Google account. | Buyer |
| FR-002 | 1 | Registration |  Buyers will be able to get registered on website with simple registration form with  below details:  o First name o Last name o Email id  o Contact number o Password  o Confirm password  o Accept terms and conditions   Email id verification would be mandatory to get login into website.   User will receive email verification link on registered email id to verify the email. Once | Buyer |

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| **Req#** | **Priority** | **Description** | **Rationale** | **Impacted**  **Stakeholders** |
|  |  |  | email id verified successfully, user will be able login into website with email and  password |  |
| FR-003 | 1 | Product  Search |  Buyers will be able to search the products by keyword, by browsing through  category/sub-category, using filters and sorting options.   User would be able to search for the products without login into website. | Buyer/ Guest user |
| FR-004 | 1 | Product  Listing |  Buyers will be able to view the listing of the product with following details:  o Product title  o Thumbnail image o Price  o Ratings & reviews   By clicking on product title and image, user will be able to navigate on product detail  page to view more details of the product.   User should be able to view the products listing and details without login. | Buyer/ Guest user |
| FR-005 | 1 | Product  details |  User would be able to view all product details on this page. Login will not be required  to view the product details.   User will be able to check the shipping availability by entering PIN code.   User would be able to view following details about the product on product detailpage:  o Product title  o Thumbnail image  o Product images  o Product description  o Price  o Sizes/ colors  o Ratings & reviews   User will be able to add the product to his shopping cart. User will also be able to add  the product to wishlist. | Buyer/ Guest user |

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| **Req#** | **Priority** | **Description** | **Rationale** | **Impacted**  **Stakeholders** |
|  |  |  |  User will be able to share product on social media.   User will not be able to add the product to wishlist without login. |  |
| FR-006 | 2 | Wishlist |  Buyer will need to get registered and login into website to maintain his list of items in  wishlist.   Buyer will be able to view/ add/delete products added into his wishlist. User will beable to proceed for checkout process of items available in wishlist. | Buyer |
| FR-007 | 1 | Shopping cart |  The products can be added into shopping cart from the product detail page.   User is required to get register and login to manage the items in his shopping cart.   User will be able to add items/remove items/ update quantity of items in shopping  cart.   User will be able to proceed for checkout of any items/ all items available in shopping  cart.   User will be able to view item price, sub-total and total price of the items available inshopping cart. | Buyer |
| FR-008 | 1 | Checkout &  Payment |  Payment and checkout process of the items selected from the shopping cart will be  considered for placing the orders.   Buyer is required to login into website for checkout and payment.   Buyer will required to enter billing and shipping address before checkout and  payment.   Buyer will be required to select payment method for order payment  o Credit card/ debit card o Net banking   Buyer will be able to view the order summary on this page. Order summary will showfollowing details:  o Item total  o Sub-total  o Shipping cost  o Tax | Buyer |

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| **Req#** | **Priority** | **Description** | **Rationale** | **Impacted**  **Stakeholders** |
|  |  |  | o Order total   Buyers will be able to receive email notifications for the orders status update. |  |
| FR-009 | 4 | Social media sharing |  User will be able to share product on social media.   Login is not mandatory to share products on social media. | Buyer/ Guest user |
| FR-010 | 1 | My Account |  Buyers will be able to manage their following details from account section  o Profile details : email, phone number  o Change password o Addresses   Buyer will be able to access below sections from My account:  o My Orders  o My wishlist  o Shopping cart  o Ratings and reviews  o Logout | Buyer |
| FR-012 | 1 | Order History |  Buyers will be able to view the orders list i.e. orders placed by the buyer on past.   User will be able to view all details about the orders with total amount paid, shipping  address, items quantity, price per unit etc.   User will be able to reorder the items which are shown in the order details.   User will be able to track his current orders from my orders section. | Buyer |
| FR-013 | 2 | Contact |  Buyers will be able to contact support team via email regarding any queries/ | Buyer, Admin |

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| **Req#** | **Priority** | **Description** | **Rationale** | **Impacted**  **Stakeholders** |
|  |  | Support | complaints by simply posting name, email, contact number and message to the  admin.   Admin will be able to receive an email regarding complaint details posted by buyer. | user |
| FR-014 | 1 | Login |  The admin will be able to login to the admin panel.   The admin will be asked to enter the user name and password in the given field.   Reset password option for the admin to reset password in case of forgot password. | Admin user/ Sub-users |
| FR-015 | 1 | Dashboard |  Admin user will be able to view following information on dashboard  o Total no. of active and inactive registered buyers  o Total no. of Products uploaded on website  o Total Revenue: today/ this month | Admin user/ Sub-users |
| FR-016 | 1 | Buyers  Management |  Admin user will be able to view/edit/active/inactive buyers account information from  this section.   Admin user will be able to view all detail of the buyer’s account like profile details,address, orders, wishlist, items in cart. | Admin user/ Sub-users |
| FR-017 | 1 | Orders  Management |  Admin user will be able to view list of all orders placed by the buyers on website with  current status of each order.   Admin user will be able to view/edit order details.   Admin user will be able to update the status of order placed by the buyer.   Status of the orders will be as below:  o Open  o Confirmed o In process o Shipped  o Delivered  o Admin user will be responsible for shipment of orders placed by the buyers.   Admin user will be able to maintain the below shipment details into system for each | Admin user/ Sub-users |

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| **Req#** | **Priority** | **Description** | **Rationale** | **Impacted**  **Stakeholders** |
|  |  |  | order:  o Shipping carrier o Tracking ID  o Current status of shipment o Delivery location/address o Shipping cost |  |
| FR-018 | 1 | Product categories management |  Admin user will be able add/edit/active/inactive product categories and sub-  categories from this section.   User will be able to add products under these categories & sub-categories from theproduct management section. | Admin user/ Sub-users |
| FR-019 | 1 | Products management |  Admin user will be able to Add/ Edit/Active/ Inactive products in catalog from this  section.   Admin user will also be able to manage following information of the products:  o Product name o Images  o Description o Keywords  o Variations : color, size | Admin user/ Sub-users |
|  |  | Payment  Management |  Ability for the admin to view/edit payment information i.e. bank account details to  receive orders payments from buyers.   Admin user will be able to view payment status of each order placed by the buyers.   Stripe payment gateway will be used for online payment gateway integration. | Admin user |
| FR-020 | 3 | Ratings &  Review |  Admin user will be able to approve/ reject ratings and reviews posted by the buyersfor products. | Admin user/ Sub-users |
| FR-021 | 2 | Statistics &  Reports |  User will be able to view the following reports in system:  o Products uploaded: | Admin user/ Sub-users |

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| **Req#** | **Priority** | **Description** | **Rationale** | **Impacted**  **Stakeholders** |
|  |  |  | - Date : From-To  - Month  - Year  o Revenue/ total sale  - Today  - Current week  - Date : From-To  - Month  - Year   Admin user will be able to export reports into pdf and excel format. |  |
| FR-022 | 2 | System users Management |  Admin user will be able to create/edit/delete/ active/inactive sub-users to operatethe various sectional operations in system | Admin user/ Sub-users |
| FR-023 | 2 | Roles  Management |  Ability to add/edit/delete/active/inactive sub-admin users with role based access | Admin user/ Sub-users |
| FR-024 | 1 | CMS  Management |  Admin user will be able to edit the content for below CMS pages:  o About us  o Contact us  o Privacy policy  o Terms and conditions | Admin user/ Sub-users |
| FR-025 | 3 | Email  Management |  Admin user will be able to add/edit/delete content for emails to be sent to buyersregarding new product launch, offers, and promotions. | Admin user/ Sub-users |
| FR-026 | 2 | Complaints/  Feedbacks |  Admin user will be able to view queries/ complaints/ feedbacks received from thebuyers. Admin will also receive an email regarding the feedback / complaints and queries sent by the buyers. | Admin user/ Sub-users |

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| **ID** | **Requirement** |
| NFR-001 | Scalability: The website repository shall accommodate up to 100 users concurrently. |
| NFR-002 | Speed: web pages should not take more than 30 seconds to load in good speed of internet. |
| NFR-003 | Reliability: Web pages should not get broken and display page not found error if page is not available. |
| NFR-004 | Security: SSL security and encryption for online payments |

1. **Features not to be tested**

These features are not to be tested because they are out of the scope in the business requirement document.

* Ordering customized products
* Real time order tracking
* Cash on delivery option for buyers
  1. **Test Type**

In the project Online Apparels Shopping Website, below are the types of testing that should be conducted.

* Functional testing: Each function of the website has to be verified that it operates in conformance with the Business Requirement Document.
* Non-functional testing: The non-functional aspects of the system has to be checked.
* Performance testing
* Scalability testing
* Reliability testing
* Security Testing
  1. **Risk and Issues**

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| **Risk** | **Mitigation** |
| Team members may lack the required skills to test the website. | Plan training course to skill up team members. |
| The project schedule is to tight, it might not be completed as scheduled. | Set Test priority for each of the test activity. |
| Test Manager has poor management skills | Plan leadership training for manager. |
| A lack of cooperation may negativily afftecs the team’s productivity. | Encourage each team member in fis task, and inspire them to greater efforts. |
| Wrong budget estimation | Establish the scope before beginning work, pay attention to project planning and consistently track and measure the progress. |

* 1. **Test Logistics**

1. **Who will test?**

The project should use outsource members as testers to save the project cost.

1. **When will the test occur**

The testers will start test execution when all the following inputs are ready:

* Software is available for testing
* Test specification is created
* Test environment is set up
* Enough human resources for testing

1. **TEST OBJECTIVE**

The test objectives are to verify the functional and non-functional aspects of the Online Apparels Shopping Website. The project should focus on testing the ecommerce operations such as: Product search, Product listing, Product details, Whislist, Shopping cart, Checkout & payment, Buyers Management, Orders Management, Product Managements, Payment Management, etc. to guarantee that operations can work normally in real business environment.

1. **TEST CRITERIA**
   1. **Suspension Criteria**

If the team members report that there are 40% of test cases failed, the testing will be suspended until the development team fixes all the failed test cases.

* 1. **Exit Criteria**

Exit Criteria speficies the criteria that denotes a successful completion of a test phase.

* Run rate is mandatory to be 100% unless a clear reason is given.
* Pass rate is 80%. Achieving the pass rate is mandatory.

1. **RESOURCE PLANNING**
   1. **System Ressource**

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| **Resource** | **Description** |
| Server | A need of a Database server which can install MySQL server.  A web server which can install Apache Server |
| Test tool | Develop a Test tool which can auto generate the test result to the predefined form and automated test execution. |
| Network | Set up an Internet line with a good speed |
| Computer | At least 7 computers that can run on windows 10, Ram 8GB, CPU 3.4 GHz |

* 1. **Human resources**

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| --- | --- |
| **Member** | **Task** |
| Test Manager | * Manage the whole project * Define project directions * Acquire appropriate resources |
| Tester | * Identifying and describing appropriate test techniques/tools/automation architecture * Execute the tests, Log results, report the defects |
| Developer in test | Implement the test cases, test program, test suite etc. |
| Test Administrator | * Builds up and ensures test environment are managed and maintained * Sopports Tester to use the test environment for test execution |
| SQA members | * Take in charge of quality assurance * Checks to confirm whether the testing process is meeting specified requirements. |

1. **TEST ENVIRONMENT**

* Internet
* Database server
* Google Chrome, version 100.0.4896.127
* Windows 10
* Webserver for Online Apparels shopping Website

1. **SCHEDULE & ESTIMATION**
   1. **All project task and estimation**

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| **Task** | **Members** | **Estimate effort** |
| Create the test specification | Test Designer | 170 man-hour |
| Perform test Execution | Tester, Test Administrator | 80 man-hour |
| Test Report | Tester | 10 man-hour |
| Test Delivery |  | 20 man-hour |
| Total |  | 280 man-hour |

**6.2 Scchedule to complete these tasks**

1. **TEST DELIVERABLES**

Test deliverables are provided as below:

* 1. **Before testing phase**
* Test plan document
* Test cases documents
* Test Design specifications
  1. **During the testing**
* Test tool
* Simulators
* Test Data
* Test Traceability Matrix
* Errors logs and execution logs
  1. **After the testing cycle is over**
* Test results/reports
* Defect reports
* Installation/Test procedures guidelines
* Release notes