TEST PLAN

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Introduction

This document describes the plan for testing the Online Apparels Shopping website: automationpractice.com.

1.1 Objectives

This Test Plan document supports the following objectives:

- o Identify existing project information and the software that should be tested.
- o List the recommended test requirements (high level).
- o Recommend and describe the testing strategies to be employed.
- o Identify the required resources and provide an estimate of the test efforts.
- o List the deliverable elements of the test activities.

1.2 Team Members

Resource Name	Role

1.3 Roles and Responsibilities

No.	Member	Tasks
1	Test Manager	• Manage the whole project • Define project directions • Acquire appropriate resources
2	Test	• Identifying and describing appropriate test techniques/tools/automation architecture • Verify and assess the Test Approach • Execute the tests, Log results, Report the defects. • Outsourced members
3	Developer in Test	• Implement the test cases, test program, test suite etc.
4	Test Administrator	• Builds up and ensures test environment and assets are managed and maintained • Support Tester to use the test environment for test execution
5	SQA members	• Take in charge of quality assurance • Check to confirm whether the testing process is meeting specified requirements

2 Scope

This test plan describes testing frontend and web passed admin panel for the consumer and admins respectively.

2.1 In Scope

All the features of website automationpractice.com which were defined in Business Requirement Document need to be tested. Below is a list of all the features that need to be tested.

Feature	Roles	Description
Login	Admin Buyer	**Admin & Buyer**: Should be able to create and login using their credentials.
Registration	Buyer	**Buyer**: Should be able to create his account using his information.
Search Products	Admin Buyer	**Admin & Buyer**: Should be able to search products
	Admin Buyer	
Add to cart	Buyer	**Buyer**: Should be able to add in stock products into his cart.
Remove from cart	Buyer	**Buyer**: Should be able to add in stock products into his cart.
Add to wishlist	Buyer	**Buyer**: Should be able to add products into his wishlist.
Remove from wishlist	Buyer	**Buyer**: Should be able to remove products from his wishlist.
Email wishlist	Buyer	**Buyer**: Should be able to email his wishlist to a friend.
Online payment	Buyer	**Buyer**: Should be able to pay for the product using credit card or paypal.
Order details	Admin Buyer	**Buyer**: Should be able to view his order details after he places an order.
Order history	Admin Buyer	**Buyer**: Should be able to view the entire history of the products bought.
Order tracking	Admin Buyer	**Buyer**: Should be able to track his online orders for an estimated delivery date.
Change Password	Admin Buyer	**Admin & Buyer**: Should be able to change password for their account.

New Customer	Admin	**Admin**: Should be able to add new customers. Can edit details of the customer address, email, phone, etc.
Edit Account	Admin	**Admin**: Should be able to add and edit account details for an existing account
Delete Account	Admin	**Admin**: Should be able to add a delete an account for a customer.
Delete Customer	Admin	**Admin**: Should be able to delete a customer.
Add Product	Admin	**Admin**: Should be able to add new product.
Edit Product	Admin	**Admin**: Should be able to add and edit details for an existing product.
Delete Product	Admin	**Admin**: Should be able to delete a product.

2.2 Out of Scope

These features are not being tested because they are not included in the software requirement specs.

- Customize products
- Real time order tracking
- Cash on delivery as a payment option

3 Assumptions/Risks

3.1 Assumptions

This section lists assumptions that are made specific to this project.

- The Test environment described will be available by the start date given in the schedule for executing the test scripts, and sign-off has been forwarded to the Test Team Leader.

- The object code will be fully unit and integration tested and made available on the Test environment by the date(s) given in the schedule for executing the test scripts and sign-off has been forwarded to the Test Team Leader.

- All approved Decision Requests and Change Requests will be forwarded upon approval to the Test Team Leader to ensure that the test scripts are modified and the function re-tested, where necessary.

3.2 Risks

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

#	Risk	Impact	Trigger	Mitigation Plan
1	Scope Creep – as testers become more familiar with the tool, they will want more functionality	High	Delays in implementation date	Each iteration, functionality will be closely monitored. Priorities will be set and discussed by stakeholders. Since the driver is functionality and not time, it may be necessary to push the date out.
2	Changes to the functionality may negate the tests already written and we may lose test cases already written	High – to schedule and quality	Loss of all test cases	Export data prior to any upgrade, massage as necessary and re-import after upgrade.
3	Weekly delivery is not possible because the developer works off site	Medium	Product did not get delivered on schedule	

4 Test Approach

The project is using an agile approach, with weekly iterations. At the end of each week the requirements identified for that iteration will be delivered to the team and will be tested.

4.1 Test Levels

In the project Guru99 Bank, there're 3 types of testing should be conducted.

- **Alpha/Unit Testing**: Test each module for functional correctness.
- **Integration Testing**: Individual software modules are combined and tested as a group.
- **System Testing**: Conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements.
- **API Testing**: Test all the APIs create for the software under tested.
- **UAT Testing**: End user tests the system to compare it to its requirements.
- **Automated Regressing Testing**: Selective component testing to ensure the modifications in code have not caused unintended effects.

4.2 Suspension Criteria and Resumption Requirements

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

4.3 Test Completeness

- Specifies the criteria that denote 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**

5 Test Environment

A new server is required for the web server, the application and the database.

5.1 Resources

No.	Resource	Description
1	Server	Need a Database server which install MySQL server
2	Test Tool	Develop a Test tool which can auto generate the test result to the predefined form and automated test execution
3	Network	Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s
4	Computer	At least 4 computer run Windows 7, Ram 2GB, CPU 3.4GHZ

6 Milestones / Deliverables

6.1 Test Schedule

The initial test schedule follows……….

Task Name	Start	Finish	Effort	Comments
Test Planning				
Review Requirements documents			2 d	
Create initial test estimates			1 d	
Staff and train new test resources				
First deploy to QA test environment				
Functional testing – Iteration 1				
Iteration 2 deploy to QA test environment				
Functional testing – Iteration 2				
System testing				
Regression testing				
UAT				
Resolution of final defects and final build testing				
Deploy to Staging environment				
Performance testing				
Release to Production				

6.2 Deliverables

Deliverable	For	Date / Milestone
Test Plan	Project Manager; QA Director; Test Team	
Traceability Matrix	Project Manager; QA Director	
Test Results	Project Manager	
Test Status report	QA Manager, QA Director	
Metrics	All team members	