



Phase 4: Transition

5.10 Test Case

Version 3.0

Revision History

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1. Introduction

1.1 Purpose

The purpose of the document is to provide a comprehensive set of instructions for executing and verifying the correct functionality of the web portal. The document outlines the tests that must be performed to ensure that the portal meets the requirements and specifications, as well as any additional testing that is deemed necessary to ensure that the web portal is of high quality. The document provides a baseline for evaluating the performance of the web portal and enables the organization to track its progress in meeting the quality objectives. It ensures that all aspects of the portal are thoroughly tested, and it helps to identify and isolate any defects or bugs that may be present.

1.2 Scope

1. User authentication and authorization:
 - a. Verify that users can register for an account and login successfully
 - b. Test that users can reset their password if they forget it
 - c. Ensure that unauthorized users cannot access restricted pages or perform actions
2. Search and navigation:
 - a. Test that the search functionality returns accurate results for various search queries
 - b. Ensure that users can navigate the web portal easily and intuitively
 - c. Verify that links and buttons work correctly and take users to the intended pages
3. Car listings and details pages:
 - a. Test that car listings are displayed correctly and accurately
 - b. Ensure that all necessary information is provided for each car, including photos and specifications
 - c. Test that users can filter and sort car listings according to their preferences
2. Account management and user profiles:
 - a. Test that users can update their profile information and preferences
 - b. Ensure that users can delete their account if they wish to do so
3. Dealer management and inventory management:
 - a. Test that dealers can manage their inventory easily and efficiently
 - b. Verify that dealers can add and remove cars from their inventory as necessary
 - c. Ensure that dealers can view and manage their sales data and reports
4. Reports and analytics:
 - a. Test that reports and analytics are generated correctly and accurately
 - b. Verify that data is displayed in an intuitive and easy-to-understand format
 - c. Ensure that reports and analytics can be exported to different formats if necessary
5. Performance and scalability:

- a. Test that the web portal can handle high traffic loads without crashing or slowing down
 - b. Verify that page load times are within acceptable limits
 - c. Ensure that the web portal can handle a large number of users simultaneously
- 6. Security and data privacy:
 - a. Test that user data is stored securely and is not accessible to unauthorized users
 - b. Verify that payment processing is secure and meets industry standards
 - c. Ensure that the web portal is compliant with data privacy laws and regulations
- 7. Compatibility with different browsers and devices:
 - a. Test that the web portal works correctly on different browsers and versions
 - b. Ensure that the web portal is responsive and works well on different devices, including desktops, laptops, tablets, and smartphones.

1.3 References

5.08 Test Suite Document

5.04 Test Plan Document

5.01 Test Strategy Document

2. Overview of the Web Portal

2.1 Functionalities

The C3 web portal will include the following functionalities:

User Registration and Login: Testing the functionality of user registration, account activation, and login pages.

Inventory Management: Testing the functionality of adding, editing, and deleting products from the inventory. Also, testing the functionality of assigning cars to different dealers, managing their availability, and updating their details.

Car Listings: Testing the functionality of displaying car listings, including features like filtering, sorting, and searching by make, model, year, and price.

Car Details Page: Testing the functionality of displaying detailed information about a particular car, including specifications, photos, and videos.

User Profile Management: Testing the functionality of updating user profiles, including changing personal information, uploading profile pictures, and managing subscriptions.

Reports and Analytics: Testing the functionality of generating reports and analytics based on various parameters, including sales data, customer preferences, and inventory management.

Security: Testing the functionality of security features, including SSL encryption, CAPTCHA verification, and password policies.

2.2 User Roles

Anonymous User: This user is someone who is not registered or logged in and can access only the public pages of the web portal, such as the home page, about us page, and contact us page.

Registered User: This user has registered an account on the web portal and can access all the features available to an anonymous user, as well as additional features such as the ability to save search queries, add products to the wish list, and view their search history.

Dealer User: This user is a registered user who has been granted additional permissions to manage their inventory, including adding, editing, and deleting products from the inventory, assigning cars to different dealers, managing their availability, and updating their details.

C3 Administrator: This user has full access to all the features and functionalities of the web portal and can manage users, dealers, inventory, orders, and reports.

Customer Support User: This user is responsible for managing customer support tickets, including responding to support requests, resolving issues, and escalating tasks to higher authorities if necessary.

2.3 Technical Environment

Operating System: The web portal should be tested on different operating systems such as Windows, macOS, and Linux to ensure that it works on all major platforms.

Web Browser: The web portal should be tested on different web browsers such as Google Chrome, Mozilla Firefox, Apple Safari, and Microsoft Edge to ensure that it works on all major browsers.

Screen Resolution: The web portal should be tested on different screen resolutions such as 1920x1080, 1366x768, and 1280x800 to ensure that it works on different devices with different screen sizes.

Mobile Devices: The web portal should be tested on different mobile devices such as smartphones and tablets to ensure that it works on mobile devices with different screen sizes and operating systems.

Network: The web portal should be tested on different network speeds and types such as Wi-Fi, 4G, and 3G to ensure that it works on different network environments.

Database: The web portal should be tested on different database configurations to ensure that it works with different types of databases such as MySQL, Oracle, and PostgreSQL.

Web Server: The web portal should be tested on different web server configurations to ensure that it works with different types of web servers such as Apache, Nginx, and IIS.

Programming Languages: The web portal should be tested on Python to ensure that it works with different server-side technologies.

Security: The web portal should be tested for security vulnerabilities to ensure that it is secure from potential attacks.

By considering these technical environments, test cases can be designed to ensure that the web portal works seamlessly across different platforms, devices, and network environments, and that it is secure and protected from potential security threats.

3. Test Cases

3.1 Login and Authentication

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	Login with Valid Credentials	Username and password	Username and password are both valid	User is redirected to the home page of the web portal
002	Login with Invalid Credentials	Username and password	Username and password combination is invalid	An error message is displayed indicating that the login attempt failed.
003	Login with	None	Username and	An error message is

	Blank Credentials		password fields are blank	displayed indicating that the username and password fields are required.
004	Password Reset	Email address	Email address is valid	A message is displayed indicating that an email has been sent to the user's email address with instructions on how to reset their password.
005	Authentication Timeout	Username and password	Authentication timeout period is expired	User is redirected to the login page with a message indicating that their session has expired.
006	Account Lockout	Username and password	Invalid username and password combination entered multiple times	The user account is locked out and cannot be accessed until it is unlocked by an administrator.

3.2 Claim Entry Page

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	New Claim Entry Page	Status PO # File # Agreement # Shop Active Shop Name Shop Phone # Shop Address Shop Address 2 Shop Province Shop Postal Code Customer First Name Customer Last Name Policy Type Coverage Type	VIN is a valid VIN	The Claim Entry Page loads correctly, page gets refreshed and data is entered in the database.

		VIN # Claim Details		
002	Status Update Approved	Status Approved By Approved To Approved Date Shop Name: Shop Phone # Shop Address Shop Province Shop Postal Code Customer First Name Customer Last Name Policy Type Coverage Type VIN # Claim Details Estimate #1 Estimate #2 Requested Agreed Amount Deductible Claim Amount	Status = 'Approved'	Approval entries are shown for the user to fill out
003	Status Update Rejected	Status Requested By Rejection Reason Shop Name: Shop Phone # Shop Contact Shop Email Shop Address Shop Province Shop Postal Code Customer First Name Customer Last Name Policy Type Coverage Type VIN # Claim Details Estimate #1	Status = 'Rejected'	Rejection entries are shown for the user to fill out

		Estimate #2 Requested		
004	Missing Required Field	<i>Required areas left empty</i>		Error messages shown
005	Repair Shop and Customer Information Format	Shop Phone # Shop Postal Code		User entry is formatted
006	Problem Adding and Removing	Press '+' button Press '-' button	Each claim must have at least 1 problem	Selected problems are added/deleted from the page
007	Claim Page Image Upload	Press 'Choose Files' button	File uploaded must be an image	Image is uploaded and user will see the image uploaded.
008	Claim Amounts	Claim Estimates Claim Amount Claim Agreed Claim Deductible Cheque Amount	Must be positive numbers	Amount is formatted to round to the nearest cent and no errors to be shown
009	Claim Expanded View	Press 'Show/Hide Additional Claim Information' button		Page shows all claims accurately and toggle button works to show full page and toggled page.

3.3 Sales Page

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	Work Order Form	Work Order # Product used Quantity Used Payment Amount Customer Name Customer Phone # Vehicle Make VIN # Dealership Name Dealership Phone # Dealership Address	VIN is a valid VIN	The page refreshes and the form is in the database

		Dealership Province Dealership Postal Code		
002	Work Order Form Hyperlink	Work Order Link Clicked		The page shows the Work Order Form that was clicked.

3.4 Reports and Analytics

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	Generate Sales Report	<i>No direct test input</i>	Sales Databases have inputs	The report is generated and displayed correctly.
002	Export Sales Report	'Export Sales Report' button pressed	Sales Databases have inputs	The report is exported in the selected format and can be opened successfully.
003	View Claim Analytics	<i>No direct test input</i>	Claims Databases have inputs	The report is generated and displayed correctly.

**The reports dashboard generates reports based on the inputs put into the claims and sales database. So inputs will be indirectly from other test cases.*

3.5 User Acceptance

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	Login Functionality	Username and password	Username and password are both valid	User is redirected to the home page of the web portal
002	Full Claims Access	Status PO # File # Agreement # Shop Active Shop Name Shop Phone # Shop Address	VIN is a valid VIN	Users can navigate through all claims tabs, add a new claim, and view all claims in the claims dashboard.

		Shop Address 2 Shop Province Shop Postal Code Customer First Name Customer Last Name Policy Type Coverage Type VIN # Claim Details		
003	Full Sales Access	Work Order # Product used Quantity Used Payment Amount Customer Name Customer Phone # Vehicle Make VIN # Dealership Name Dealership Phone # Dealership Address Dealership Province Dealership Postal Code	VIN is a valid VIN	Users can navigate through all sales tabs, add a new work order form, and view all work orders in the sales dashboard.
004	Full Reports Access	<i>No direct test input</i>	Sales and claims databases have inputs	The reports are generated and displayed correctly and the reports are exported in the selected format and can be opened successfully.
005	Logout Functionality	'Logout' button pressed	User is logged in	Users are logged out of the system and are directed to a logout confirmation page.

3.6 Integration

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	User successfully logs in	Username and password	Username and password are valid.	Users are authenticated and have the correct corresponding access to

				specific features and functionalities.
002	User can access all pages from the navigation bar	Different navigation menu items clicked		All corresponding pages are connected to the right items in the navigation bar and accessible by the user.

3.7 Regression

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	Access individual claim from all claims page	Click claim number on all claims page	A claims entry exists on the all claims page	New tab opens up with corresponding claims form
002	Access individual work order form from all work order forms page	Click work order hyperlink on all work order forms page	A work order form entry exists on the all work entry forms page	New tab opens up with corresponding work order form
003	Export Claims Report	'Export Claims Report' button pressed	Claims Databases have inputs	The report is exported in the selected format and can be opened successfully.
004	Claims image upload saved	Image 'worn-cracked-car-seat_before_FTP1.jpg' uploaded	Image is uploaded	Image saves to the claims formed and can be accessed through all claims page

3.8 Security

Test Case ID	Test Case Description	Test Inputs	Conditions	Expected Result
001	Clearance level	Username and password for a dealership user	Valid username and password for a dealership user	Users only have access to create new claims and work order forms.

002	Browser Compatibility	Open web portal in a. Google Chrome b. Mozilla Firefox c. Apple Safari d. Microsoft Edge		The web portal is secure by ensuring it is https://
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4. Conclusion

In conclusion, the document includes the following test cases:

- Login and Authentication - verifies that users can log in with valid credentials, unable to log in with invalid credentials, and able to reset their password if necessary.
- Claims Entry Page - ensures that users can easily submit claims with all necessary information, and that the claims are properly recorded and processed by the system.
- Sales Page - verifies that users can view and purchase vehicles with accurate pricing information, and the ordering process is smooth and error-free.
- Reports and Analytics Page - ensures administrators can access and analyze key data on sales, inventory, and customer behavior, allowing them to make informed decisions to improve the dealership's operations.
- User Acceptance - ensures that users can intuitively use the system and access all the functions they need.
- Integration - ensures that the system is correctly integrated together with no missing pages or bugs.
- Regression - verifies that the new changes made in the codebase do not impact the existing software functionality.
- Security - verifies that the safeguards required to protect the system are functioning.

By testing all of these key functionalities of the C3 web portal, we can ensure that the website is functioning correctly and meeting the needs of both users and administrators. It's important to thoroughly test all aspects of the website to identify and address any issues or bugs before the portal goes live, ensuring a positive user experience and smooth operation for the organization.