D7 Auto Service Center Web-App

**Test Plan**

**Revision History**

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**Reference Document**

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| Version | Date | Document Name |
|  |  |  |
|  |  |  |

**TABLE CONTENTS**

[1. INTRODUCTION 4](#_Toc144558459)

[1.1. Purpose 4](#_Toc144558460)

[1.2. Project Overview 4](#_Toc144558461)

[1.3. Audience 5](#_Toc144558462)

[2. TEST STRATEGY 6](#_Toc144558463)

[2.1. Test Objectives 6](#_Toc144558464)

[2.2. Test Assumptions 6](#_Toc144558465)

[2.3. Test Principles 6](#_Toc144558466)

[2.4. Data Approach 6](#_Toc144558467)

[2.5. Scope and Levels of Testing 6](#_Toc144558468)

[2.5.1. Exploratory 6](#_Toc144558469)

[2.5.2. Functional Test 6](#_Toc144558470)

[2.5.3. User Acceptance Test (UAT) 8](#_Toc144558471)

[2.6. Test Effort Estimate 8](#_Toc144558472)

[3. EXECUTION STRATEGY 9](#_Toc144558473)

[3.1. Entry and Exit Criteria 10 9](#_Toc144558474)

[3.2. Test Cycles 9](#_Toc144558475)

[3.3. Validation and Defect Management 9](#_Toc144558476)

[3.4. Test Metrics 9](#_Toc144558477)

[3.5. Defect tracking & Reporting 9](#_Toc144558478)

[4. TEST MANAGEMENT PROCESS 10](#_Toc144558479)

[4.1. Test Management Tool 10](#_Toc144558480)

[4.2. Test Design Process 10](#_Toc144558481)

[4.3. Test Execution Process 10](#_Toc144558482)

[4.4. Test Risks and Mitigation Factors 10](#_Toc144558483)

[4.5. Communications Plan and Team Roster 10](#_Toc144558484)

[4.6. Role Expectations 10](#_Toc144558485)

[4.6.1. Project Management 10](#_Toc144558486)

[4.6.2. Test Planning (Test Lead) 10](#_Toc144558487)

[4.6.3. Test Team 10](#_Toc144558488)

[4.6.4. Test Lead 10](#_Toc144558489)

[4.6.5. Development Team 10](#_Toc144558490)

[5. TEST ENVIRONMENT 12](#_Toc144558491)

[6. APPROVALS 13](#_Toc144558492)

# INTRODUCTION

## Purpose

Plan for testing: Set the foundations for testing. Define the basics of the project (scope, dates, and goals) and set up a good testing environment. This includes deciding how to start and end tests, making accurate test cases, laying out jobs, making schedules, and making data plans.

Execution Strategy: Plan for how the tests will be done. Describe how problems are found, written down, and reported, as well as the steps to fix them. This shows how important it is to handle problems well.

Strategy for Testing: Sets up the basics for testing. We'll outline the most important parts of the project (scope, dates, and goals) and set up a solid testing environment. This means making rules for how tests should start and end, making precise test cases, outlining jobs, making schedules, and putting data strategies into place.

Test Management: Set up the process of testing. Define the team's roles and how they will communicate, escalate, and deal with risks. With this structure, testing is kept organized and flexible.

By including the Test Strategy, the Execution Strategy, and the Test Management, our plan makes sure that we test [Module/System Name] in [Project Name] well. We want to make sure the project is good and reliable while also meeting the project's larger goals.

## Project Overview

The goal of the "D7 Auto Service Center Web-App" project is to create a management tool for the auto repair business D7 Auto Service Center, which specializes in vehicle maintenance and repair. The project was initiated to assist D7 with their challenges in keeping up with how they could convince customers to use their services. The project's goal is to enhance their existing advertising methods by adding an online presence platform. The Elite Four group of BSIT-MI students from Asia Pacific College made this project for their PBL (Project Based Learning) course.

## Audience

The Project team members are appointed with tasks to perform based on their roles and responsibilities which are shown in this documentation, The project team is also tasked with providing unbiased input and recommendations which can help improve the quality of the system.

1. **Project Manager** – in charge of planning and going over the project schedule, as well as the project documentation and testing tasks. They keep track of how well tests are doing based on jobs that have been given to them, approve documents, and are responsible for the project's results.
2. **Business Analyst** – in charge of gathering and refining requirements, assisting in planning, and designing testing activities, and acting as the communication bridge between stakeholders and the testing team. They also maintain documentation against business requirements, manage defects and modifications.
3. **Testing Team –** responsible for executing tests and assessing the software or system to identify issues and ensure its quality and functionality.
4. **Technical Team** - make environment and test plan and deliverables align with the design, provides the testing environment, and adheres to the established procedures for problem modification.

The stakeholders may have representatives to take part in testing, including User Acceptance Testing (UAT), to confirm that the system meets business requirements and also offer clarifications to the testing team if necessary and assess the test results.

# TEST STRATEGY

## Test Objectives

## Test Assumptions

## Test Principles

## Data Approach

## Scope and Levels of Testing

### Exploratory

### Functional Test

**PURPOSE:** Functional Testing will be performed to check and verify the different features of the D7 Auto Service Center Web-App. This testing will be conducted by providing inputs to the system and validating the output from the systems.

**SCOPE:** The scope of the functional testing for D7 Auto Service Center Web-App are based on the functional requirements outlined in the project documentation and different features of the system, including but not limited to:

1. Registration
2. Login
3. Reservation System
4. Support Tab
5. Chat System
6. System Administration

The scope also includes browser and device compatibility testing to ensure optimal user experience.

**TESTERS:** Testing Team.

**METHOD:** The test will be performed according to the functional requirements outlined in the project documentation for D7 Auto Service Center Web-App.

TIMING: After exploratory test is completed.

**TEST ACCEPTANCE CRITERIA:**

1. All the features and functionalities that were outlined in the system documentation, including the product backlog and use case have been successfully implemented according to the given requirements.
2. Development is done including the unit testing that have been done and passed.
3. Test strategy and planning must be accepted and signed by the necessary personnel.
4. There are no significant problems or flaws present in the application prior to its release.
5. The hosting of the system has been hosted without significant issues or disruptions.

**TEST DELIVERABLES:**

List of test deliverables under the Functional Testing, including but not limited to:

1. Test Plan
2. Test Case
3. Test Data
4. Test Environment
5. Test Execution Logs (daily/weekly status report)
6. Defect Reports
7. Test Summary Report
8. Test Closure report

**MILESTONE LIST**

Following are the milestone lists in functional testing, including but not limited to:

1. Completion of Test Planning
2. Setting up testing tools and testing environments
3. Executing the functional testing
4. Creation of User Acceptance Testing (UAT).
5. Test Completion
6. Test Review and Approval
7. Test Closure

### User Acceptance Test (UAT)

## Test Effort Estimate

# EXECUTION STRATEGY

## Entry and Exit Criteria 10

## Test Cycles

## Validation and Defect Management

## Test Metrics

## Defect tracking & Reporting

# TEST MANAGEMENT PROCESS

## Test Management Tool

## Test Design Process

## Test Execution Process

## Test Risks and Mitigation Factors

## Communications Plan and Team Roster

## Role Expectations

### Project Management

### Test Planning (Test Lead)

### Test Team

### Test Lead

### Development Team

The Development Team is the representative of the D7 Auto Service Center Web-App who are working with the testing team. Their main responsibility is to facilitate communication and teamwork between the development and testing teams. The following are the functions of the representative of the development team:

* Evaluate testing deliverables created by the testing team and provide insights in a timely manner.
* Aid supports the project's development and testing processes.
* Help in validating the results of some testing if required by the testing team.
* Clarify any uncertainties or inquiries that the testing team may have with regard to the software's requirements or design. This makes sure the testing team understands what exactly must be validated.
* Provide test data and scenarios.
* Assist in setting up some testing environment that the testing team will be utilized.
* When the testing team determines defects (bugs) during testing, the representative of the development team can help the testing team understand the source of the issues and work with developers to prioritize and resolve them.

# TEST ENVIRONMENT

# APPROVALS

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