

Software Test Plan

Project Phase 6

TURBO Project

Document Version 1

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Team

Rakan maher Joudeh

Rand Dabbour

Submitted to:

DR. Mohammed Nassar

Software Engineering

Amman Arab University

Revision History

Version	Date	Comments
1.0	17/8/2023	Initial version of Test Plan and Test Case Specification

Preface

This Software Test Plan loosely follows the layout suggested by IEEE Std. 829-1998, “IEEE Recommended Practice for Software Test Documentation.” However, certain liberties have been taken with the compliance of the

format suggested in IEEE Std. 829-1998; the material provided herein is presented to best fit the needs of Software

Test Plan as a project communication tool and reference document

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1. Introduction:

1.1 Document Purpose

This document is to act as a project communication tool and reference document, outlining the intended test plan to be conducted after implementation.

1.2 Stakeholders

- DR. Mohammed Nassar
- Rand Dabbour (project manager + programmer + design lead).
- Rakan Maher (project manager + programmer + quality lead).

1.3 Scope

The diagrams, definitions, test cases, and related material in this document address how the system should behave as a whole. This document intends to provide a guideline on how testing of the system should occur and the functions to be tested. Only the main functions of the system as specified by the user needs and the system's SRS will be tested at this time.

1.4 Overview

This document loosely follows the layout suggested by IEEE Std. 829-1998, "IEEE Recommended Practice for

Software Test Documentation." Areas that do not apply or are not addressed are described as such. The

documentation provides a guideline on how to conduct testing of the system and what functions will be tested. Test

cases (scenarios) are provided in the appendix section.

1.5 Definitions, Acronyms and Abbreviations

M1: module one (Home Page).

M2: module two (Price Page).

M3: module Three (sign up/log in form Page).

DFD: Data Flow Diagram.

2 Test Items:

All main functions of the system will be tested in accordance with the user needs and SRS. Special attention will be

given to the automatic functioning of the system (e.g. prioritization of package movement based on location of the

package), the reporting capabilities of the system to a user at a remote station, and the capability of allowing a user

to toggle between auto control mode and user control mode.

3 Software Risk Issues:

Not addressed at this time.

4 Features to be Tested by Test Case

The following table indicates which main features will be tested through the use of test cases and their level of risk:

Feature	Level of risk (H,M,L)
Sign up process failure	low
Payment process failure	Medium
System shut down	Medium

5. Features to be Tested by Checklist

The following table indicates the requirements that are not covered in the test cases and will be tested by

examination of requirements and marked off in the following checklist:

Table 2: Requirements Coverage Checklist (RCC)

Requirements not covered in Test Requirement met? Cases	Requirement met?	
1.User Registration and Authentication	Yes	No
2.Car Catalog and Search	OK	
3.Car Details and Imagery	OK	
4.Reservation and Booking	OK	
5.Pricing and Payment	OK	
6.User Profiles and Preferences	OK	

7.Customer Support and Communication	OK	
8.Admin Dashboard and Management	OK	
9.Safety and Compliance:	OK	
Web Application Framework	OK	
Database Management System	OK	
Payment Processing Gateway	OK	
Authentication and Security	OK	
Email Notification Services	OK	
CMS	OK	
User-Friendly Interface	OK	
Responsive Design	OK	
Booking and Reservation System	OK	
Secure Payment Interface	OK	
4.1-Reliability	OK	
4.2 Availability	OK	

4.3 Security	OK	
4.4 Maintainability	OK	
4.5 Portability	OK	

6. Approach

Happy path testing method will be used when testing the APE. In this approach the test cases will only test the

default main features of the system, using known inputs, executing without exception, and producing expected

outputs.

7. Item Pass/Fail Criteria

If a particular item does not behave as expected both the item and the test case are considered to have failed. In that

case the developer shall return to the implementation of the code and fix the problem.

8. Entry & Exit Criteria

Entry criteria are defined as preconditions in each test case. Exit criteria are defined as the successful completion of the test case.

9. Suspension Criteria and Resumption Requirements

Not addressed at this time.

10. Test Deliverables

The completed test cases and items not to be tested checklist will be delivered to the team members via blackboard once testing is completed.

11. Remaining Test Tasks

Testing will be conducted in one phase. There will be no need to schedule secondary phases to complete testing

unless failures are encountered, in which case, after the developer has fixed the issues found during testing, the

failed test(s) will be conducted in the same manner as before.

12. Environmental Needs

Not addressed at this time.

13. Staffing and Training Needs

Not addressed at this time.

14. Responsibilities

Testing will be conducted by the quality manager and observed by the programming lead, and any other member

required by the project lead, so that assistant can be provided when needed.

15. Planning Risks and Contingencies

This is considered to be a low risk test; therefore, this is not addressed at this time.

16. Appendix

16.1 Test Case Scenarios

Step	Source	Action	Actual Behavior
1	User	Choose a car	OK
2	User	Review prices	Ok
3	User	Sign up	OK
4	System	Invalid user name notification	Ok
5	System	Invalid card notification in payment process	Ok
6	User	Log in	Ok
7	System	Invalid log in password notification	Ok
8	System	Invalid Username in log in notification	Ok

Rakan Maher Joudeh 202010464

Rand Wail Dabbuor 202010428

9	System	Delete unavailable cars	System will only write sold out, It wont delete it.
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