

# ***TEST PLAN***

## ***The Palindrome Exercise.***



This document provides an overview of the project and the product test strategy, a list of testing deliverables and plan for development.

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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 **The Palindrome Exercise**.

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

### 1.1 Scope of Testing

#### *1.1.1 Feature to be tested.*

All identified or mentioned modules of The Palindrome Exercise which were defined in software requirement specs are needed to be Tested.

Module Name	Applicable Role	Description
OpenHomePage	User	<ul style="list-style-type: none"><li>• The Home Page will have a heading The Palindrome Exercise</li><li>• A Text box – <b>originalWord</b> for user to enter an original word or phrase to be checked by Palindrome software.</li><li>• The Button - <b>button1</b> for user to click in order to submit / pass the original phrase or word to the Palindrome software</li></ul>

isPalandrome	Application	<ul style="list-style-type: none"> <li>The application should reverse and true if the key word or a phrase entered by the user is the same if reversed.</li> </ul>
verifyPalindrome	Application	<ul style="list-style-type: none"> <li>The application should verify if the entered key word is Palindrome.</li> </ul>

### **1.1.2 Feature not to be tested.**

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

- Hardware Interfaces
- Software Interfaces
- Website Security and Performance

## **1.2 Test Type**

In the project The Palindrome Exercise, there're 3 types of testing should be conducted.

- **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.
- **Regression Testing**: re-Test all the Test cases created for the software under test before shipping the product to production.

### 1.3 Risk and Issues

Risk	Mitigation
Team member(s) lack the required skill(s) for testing writing Test cases or automation.	Plan training course to skill up your members

### 1.4 Test Logistics

#### 1.4.1 Who will test?

The project should use **MamaMoney QA** member(s) as the tester(s) to save the project cost

#### 1.4.2 When will test occur?

The tester(s) will start the test execution when all the following inputs are ready.

- Software is available for testing.
- Test Specification is created
- Test Environment is built

## 2 TEST OBJECTIVES

The test objectives are to **verify** the Functionality of The Palindrome Exercise, the project should focus on testing the **key words or phrases passed to the application if there are palindrome or not.**

## 3 TEST CRITERIA

### 3.1 Suspension Criteria

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

### 3.2 Exit Criteria

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**.

## 4 RESOURCE PLANNING

### 4.1 System Resource

No	Resource	Description
1.	Machine (Tablet or Desktop)	Can have browsers installed to access The Palindrome Exercise project.
2.	Internet access	We need to connect our machines to the internet to access The Palindrome Exercise

### 4.2 Human Resource

No	Member	Task
1	Test Manager	Manage the whole project. Define project directions Acquire appropriate resources

2.	Tester (QA)	Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects.
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## 5 SCHEDULE & ESTIMATION

### 5.1 All project task and estimation

Task	Members	Estimate Effort
Perform Test Execution	QA /Tester /Test admin or BA	Maybe 2days (48 hours)
Test Report	Tester	1 day (24 hours)
Test Delivery		5 hours
Total estimate		77 hours

## 6 TEST DELIVERABLES

Test deliverables are provided as below.

### 6.1 Before testing phase

- Test plans document.
- Test cases documents - Test Design specifications.

### 6.2 During the testing

- Test Tool - Simulators.
- Test Data
- Test Trace-ability Matrix - Error logs and execution logs.

### 6.3 After the testing cycles is over.

- **Test Results/reports**
- Defect Report
- Installation/ Test procedures guidelines
- **Release notes**