



SOFTWARE TEST REPORT (STR)

PETAKOM MART MANAGEMENT SYSTEM

Version 1.0.0

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June 27, 2023

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1. Introduction

1.1 System Identification

This document uses the following conventions for the PETAKOM Mart Management System (PMMS)

System title : PETAKOM MART MANAGEMENT SYSTEM

System abbreviation : PETAKOM-MMS

System identification number : STD-PETAKOM-MMS-2023-v1.0

Use Case identification number : UC-PETAKOM-MMS-2023

Requirement identification number : REQ-PETAKOM-MMS-2023

Year : Years of Development, 2023

Version : VERSION 1

The format that is used to record PETAKOM Mart Management System (PETAKOM MMS) is SRS-PETAKOM-MMS-XXXX-VX. MMS represents the Mart Management System. Then, for PETAKOM stands for client company where it is also known as the system's name. The "XXXX" is the placeholder to put the year of the system developed and finally the "VX" is to show the version number of the system developed. The format for our use case identification number is UC-PETAKOM-MMS-XX. "UC " is referred to as a use case diagram and "XX" is the number of the use case. Finally, the requirement identification number is REQ-PETAKOM-MMS-XX where "REQ" stands for requirement and "XX" is the number of the requirements.

1.2 System Overview

PETAKOM Mart Management System (PETAKOM MM) is an application that is made specifically for people at the Faculty of Computing in University Malaysia Pahang. This application can facilitate the purchase of customers consisting of students and staff. Nevertheless, this application aims to ease the management of the PETAKOM MM System. The management of the system includes the payment of purchases made by the customer which need to be managed by the cashier, then the admin acts as a viewer of the payment list. While coordinator assigned to manage reports about the statistical product sales.

The PETAKOM MM System should:

1. Manage inventory. The actor involved in this module is the admin. This module is responsible for managing anything related to the product. Among that, which include the admin that can add new items to the PETAKOM MM in addition by being able to see the list and product details, which must be filled in by the admin.
2. Manage profile is the module that is designed for the admin to create a new profile for the PETAKOM MM members by adding the information. Among the information that needs to be filled in in order to create a new profile include first name, last name, role, course, email, and contact number. In addition, the admin can also edit profile information.
3. Manage report module is to generate reports for the sales of the product that is sorted by daily, weekly, monthly, and yearly. The report should be visualized by the motion graphics such as a graph statistic and table data which also displays the item's name, the quantity of the item sold, the total profit, the total investment, and the net price.
4. Manage payment module is the module that needs to be managed by admin and cashier when the user performs payment after they made purchases of the product in the system. The system will automatically add the list of the payments that need to be settled by the customer. In order to complete the payment, customers need to walk into the PETAKOM MM System as the payment is available via cash and QR Pay.
5. Manage duty roster is the module that manages the duty schedule. The system provides a calendar which the admin can play a role by noting the duty on the day that they wanted. Admin can add schedule time by adding the day and date for start and end time, and also the person in charge to be on duty that day. Besides, the admin is also able to update and delete the duty schedule.

1.3 References

1. *PETAKOM*. (n.d.). Faculty of Computing. Retrieved April 8, 2023, from <https://fk.ump.edu.my/index.php/ms/others/staff-student/petakom>
2. Custom Software Requirements Specification Document - Belitsoft. (n.d.). Retrieved November 27, 2021, from <https://belitsoft.com/custom-application-development-services/software-requirements-specification-document-example-international-standard>
3. Ohnishi, A. (1996, April). Software requirements specification database based on requirements frame model. In *Proceedings of the Second International Conference on Requirements Engineering* (pp. 221-228). IEEE, from [Software requirements specification database based on requirements frame model | IEEE Conference Publication | IEEE Xplore](#)
4. *How to Create Software Design Documents*. (2020b, November 18). Lucidchart. <https://www.lucidchart.com/blog/how-to-create-software-design-documents>

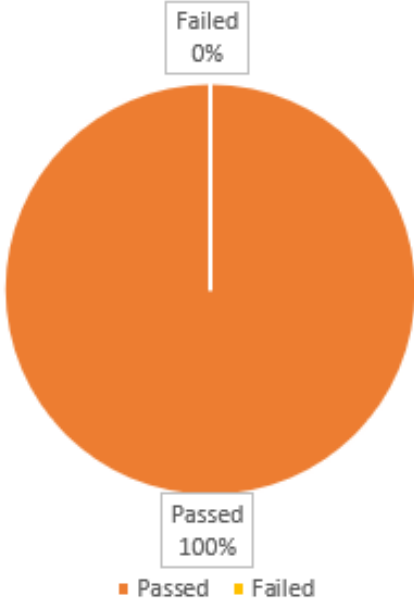
2. Formal Qualification Test Preparations

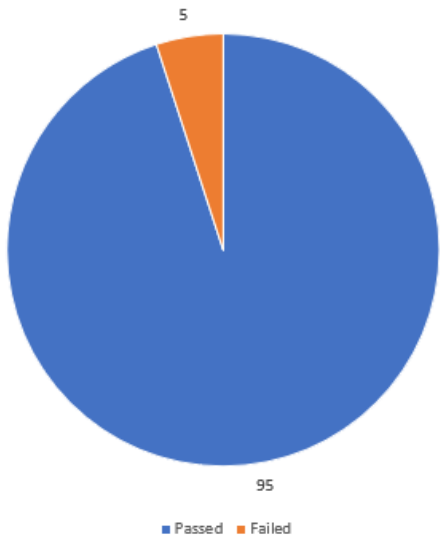
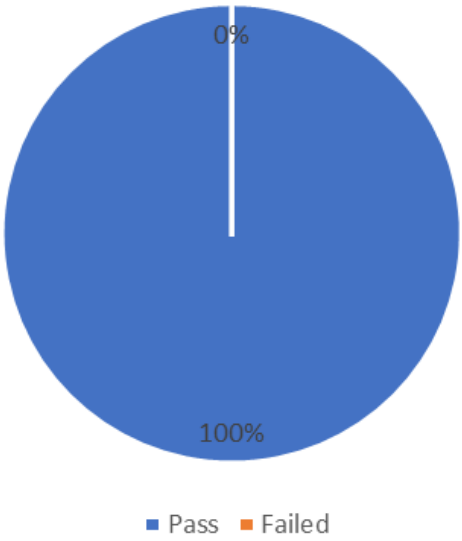
2.1 Formal Qualification Test of System

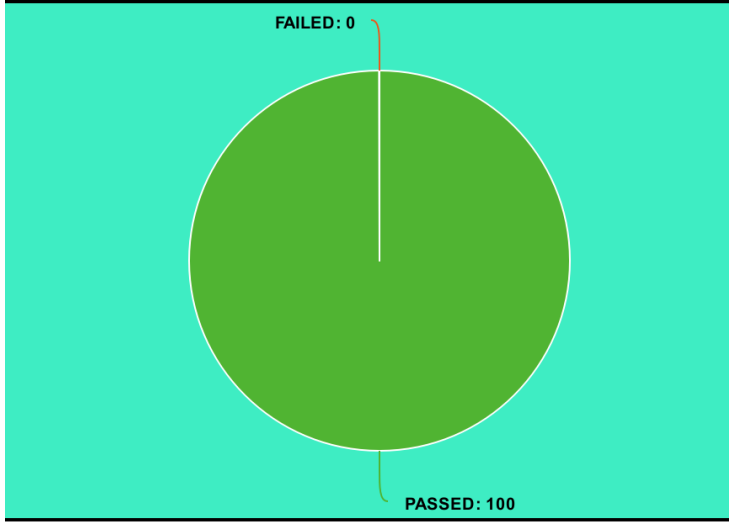
Formal qualification test of the system is performed to verify the design and make sure that the system meets its requirements based on the documentation such as software requirement specifications (SRS). Each module will be tested to verify the requirements for each module. There are 4 modules in this system which are Manage Inventory, Manage Profile, Manage Payment, Manage Duty Roster and Manage Report.

2.2 Summary of Charting

Table 2.2.1 shows the summary of charting for each module.

MODULES	SUMMARY OF CHARTING
Manage Inventory	<p>Manage Inventory</p>  <p>Failed 0%</p> <p>Passed 100%</p> <p>■ Passed ■ Failed</p>

Manage Profile	 <p>A pie chart titled 'Manage Profile' showing the distribution of results. The chart is divided into two segments: a large blue segment representing 'Passed' at 95, and a small orange segment representing 'Failed' at 5. A legend below the chart shows a blue square for 'Passed' and an orange square for 'Failed'.</p> <table border="1"><thead><tr><th>Category</th><th>Value</th></tr></thead><tbody><tr><td>Passed</td><td>95</td></tr><tr><td>Failed</td><td>5</td></tr></tbody></table>	Category	Value	Passed	95	Failed	5
Category	Value						
Passed	95						
Failed	5						
Manage Payment	 <p>A pie chart titled 'Manage Payment' showing the distribution of results. The chart is divided into two segments: a large blue segment representing 'Pass' at 100%, and a very thin orange segment representing 'Failed' at 0%. A legend below the chart shows a blue square for 'Pass' and an orange square for 'Failed'.</p> <table border="1"><thead><tr><th>Category</th><th>Value</th></tr></thead><tbody><tr><td>Pass</td><td>100%</td></tr><tr><td>Failed</td><td>0%</td></tr></tbody></table>	Category	Value	Pass	100%	Failed	0%
Category	Value						
Pass	100%						
Failed	0%						

<p>Manage Duty Roster</p>	 <p>100</p> <p>■ Passed ■ Failed</p>
<p>Manage Report</p>	<p>Manage Report</p>  <p>FAILED: 0</p> <p>PASSED: 100</p> <p>■ PASSED ■ FAILED</p>

2.3 Formal Qualification Test of STD Requirement Summary

Table 2.3.1 Test Case Summary

NUMBER OF TEST CASES	REMAINING TEST CASES	TEST CASES COMPLETED
34	-	34

The table below shows the module covered with the number of completed test cases.

Table 2.3.2 Modules Covered

MODULES COVERED	TEST CASE COMPLETED
Manage Inventory	9
Manage Profile	7
Manage Payment	6
Manage Duty Roster	9
Manage Report	3

3. Formal Qualification Test Descriptions

3.1 Test Result

3.1.1 Test Case 1 (Manage Inventory)

(Nur Ainul Hayati Binti Mohd Sukor CB20090)

Test Case ID	Description	Success	Failure	Remarks
TC-01-101	Testing whether the Admin can view the Product page.	100%	0%	Successfully view the Product page.
TC-01-102	Testing whether the Admin can view New Product form page	100%	0%	Successfully view the New Product form page.
TC-01-103	Testing whether the Admin can fill in the New Product form.	100%	0%	Successfully fill in the New Product form.
TC-01-104	Testing whether the Admin can save the new product details.	100%	0%	Successfully save the new product details.
TC-01-105	Testing whether the Admin can view Edit Product form page	100%	0%	Successfully view the Edit Product form page.
TC-01-106	Testing whether the Admin can edit the Product form.	100%	0%	Successfully edit the Product form.
TC-01-107	Testing whether the Admin can update the product details.	100%	0%	Successfully update the product details.
TC-01-108	Testing whether the Admin can delete the product.	100%	0%	Successfully delete the product.
TC-01-109	Testing whether the Admin can view all product data.	100%	0%	Successfully view all product details.

3.1.2 Test Case 2 (Manage Profile)

(Muhammad Nafiz Bin Mansor CB20067 & Siti Zulaikha Binti Abdul Manap CB20097)

Test Case ID	Description	Success	Failure	Remarks
TC-02-201	Testing on the navigation bar either so that the system displays the pop-up Profile Detail.	100%	0%	Successfully view the pop-up Profile Detail.
TC-02-202	Testing on the navigation bar either so that the Admin can view the List of Staff interface.	100%	0%	Successfully view the List of Staff interface.
TC-02-203	Testing whether the Admin can create new Staff information into the database.	100%	0%	Successfully create new staff and store the data in the database.
TC-02-204	Testing whether the <<Delete>> button is fully functional.	100%	0%	Successfully functional button and responses.
TC-02-205	Testing either the system displays the confirmation message or not.	100%	0%	Successfully display confirmation message.
TC-02-206	Testing whether the <<Edit>> button is fully functional.	95%	5%	Failed to retrieve user's profile from the database.
TC-02-207	Testing whether the <<Update>> button is fully functional.	100%	0%	Successfully clicks on the update button.

3.1.3 Test Case 3 (Manage Payment)

(Siti Najihah Binti Daud CB20120)

Test Case ID	Description	Success	Failure	Remarks
TC-02-301	Testing whether the <<Check Out>> button is fully functional.	100%	0%	Successfully displays the popup page for the payment type.
TC-02-302	Testing whether the <<Pay via Cash>> button is fully functional.	100%	0%	Successfully displays the popup page for the payment in progress.
TC-02-303	Testing whether the <<Pay via QR Pay>> button is fully functional.	100%	0%	Successfully displays the popup page for the payment in progress.
TC-02-304	Testing whether the <<Complete>> button for Payment via Cash is fully functional.	100%	0%	Successfully closed the popup page.
TC-02-305	Testing whether the <<Cancel>> button for Payment via Cash is fully functional.	100%	0%	Successfully closed the popup page.
TC-02-306	Testing whether the <<Close>> button for Payment via QR Pay is fully functional.	100%	0%	Successfully closed the popup page.

3.1.4 Test Case 4 (Manage Duty Roster)

(Siti Zulaikha Binti Abdul Manap CB20097)

Test Case ID	Description	Success	Failure	Remarks
TC-04-401	Testing on the navigation bar either the system displays Duty Schedule Option.	100%	0%	Successfully view the Duty Schedule option on the navigation bar.
TC-04-402	Testing either cashier can click on the duty schedule button.	100%	0%	Successfully clicks on the duty schedule button.
TC-04-403	Testing either admin can add the duty schedule.	100%	0%	Successfully create a new duty schedule and store the data in the database.
TC-04-404	Testing either admin can drag the duty schedule in order to update the duty schedule.	100%	0%	Successfully drag the duty schedule or update the duty schedule.
TC-04-405	Testing either admin or cashier can click on the back button.	100%	0%	Successfully clicks on the back button.
TC-04-406	Testing either the system displays the duty schedule.	100%	0%	Successfully displays the duty schedule.
TC-04-407	Testing whether the admin can delete the duty schedule.	100%	0%	Successfully delete the duty schedule.
TC-04-408	Testing either user can click on the next button.	100%	0%	Successfully go to the next month's page.

TC-04-409	Testing either user can click on the previous button.	100%	0%	Successfully go to the previous month's page.
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3.1.5 Test Case 5 (Manage Report)

(Muhammad Nafiz Bin Mansor CB20067)

Test Case ID	Description	Success	Failure	Remarks
TC-05-501	Testing whether the Coordinator can view the Report Main Page.	100%	0%	Successfully view the Report Main Page.
TC-05-502	Testing whether the Coordinator can view the Report Detail.	100%	0%	Successfully view the Report Detail Interface.
TC-05-503	Testing whether the Coordinator can sort the graph by yearly, monthly or daily.	100%	0%	Successfully sorting the graph by yearly, monthly or daily.

4. Acronyms and Abbreviations

NO	TERMS	DEFINITION
1	SDD	Software Design Documents
2	SRS	Software Requirement Specifications
3	REQ	Requirement
4	MMS	Mart Management System
5	TC	Test Case