

Software Test Plan

for

Reservation of Facility and Equipment Inventory System

Version 2021

Prepared by:
TIRD Dev Team

Dacanay, John Russel
Limba, David
Sescar, John Timothy
Traqueña, Irish

Polytechnic University of the Philippines – Taguig Branch

July 2021

VERSION HISTORY

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	Lamata, Joshua Villanueva, Leciram				First Draft
2.0	Dacanay, John Russel L. Limba, David L. Sescar, John Timothy L. Traqueña. Irish D.				Second Draft

TABLE OF CONTENTS

TEST PLAN IDENTIFIER.....	4
REFERENCES.....	4
INTRODUCTION.....	4
TEST ITEMS	5
SOFTWARE RISK ISSUES	6
FEATURES TO BE TESTED	7
FEATURES NOT TO BE TESTED.....	9
APPROACH.....	9
ITEMS PASS/FAIL CRITERIA	9
SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS.....	9
TEST DELIVERABLES	10
REMAINING TEST TASKS	10
ENVIRONMENTAL NEEDS.....	10
STAFFING AND TRAINING NEEDS.....	11
RESPONSIBILITIES	11
SCHEDULE.....	11
RISKS AND CONTIGENCIES.....	15
APPROVALS	15
GLOSSARY.....	17

TEST PLAN IDENTIFIER

PUPT-RFEIS_TP-V2

REFERENCES

The following table summarizes the documents referenced in this document.

Document Name and Version	Description	Location
Software Test Plan PUPT-ORS	First Draft	Local
Software Test Plan PUPT-FRBS	Second Draft	Local
Software Test Plan PUPT-RFEIS	Third Draft	Local

INTRODUCTION

This test plan is intended to outline the issues and threats that may develop during the Reservation of Facility and Equipment Inventory System's testing process. It will be discussed in terms of its qualities, roles, and necessary components.

This research project will keep track of the details needed to design a more effective system test. It will be used by the device's development team as well as others who will be working with it soon.

TEST ITEMS

Item to test	Test Description	Responsibility
User Interface	To see if the interface works with different browsers.	Without affecting the appearance of the browser, apply the required interface to any type of browser.
Internet Connection Speed	To see if the system can receive data even with a slow internet connection, test it with a slow internet connection.	Ascertain that the data sent through the system is received in a timely manner.
Admin Maintenance	The admin maintenance is in charge of maintaining the system's other features, and it will be tested if an error occurs during the upgrade.	Admin maintenance should be current and error-free.
Records	The records are in charge of the system's reservation and inventory records, and they will be tested if any mistakes arise during the update.	Records should be accurate and up to date.
Super Admin Module	To try and break the system by inputting needless actions, the super admin module will be loaded with uncommon input errors and overload.	To deal with input errors in an inefficient manner.
Administrator Module	To try and break the system by inputting needless actions, the administrator module will be loaded with atypical input mistakes and overload.	To deal with input errors in an inefficient manner
User Module	To try and break the system by inputting excessive actions, the member module will be loaded with unusual input mistakes and overload.	To deal with input errors in an inefficient manner.

SOFTWARE RISK ISSUES

- A. The system's developers strongly advise utilizing Google Chrome to access the Reservation of Facility and Equipment Inventory System to improve optimization. The use of obsolete browsers can slow down the program's processes and impair its efficacy. It may also have an impact on the object orientation on its web pages.
- B. The Reservation of Facility and Equipment Inventory System will be tested for functionality. Every role should act by its stated purpose. If this has not been done, all errors should be detected and fixed as quickly as feasible.
- C. The Reservation of Facility and Equipment Inventory System is assessed during regular business hours. Because the device relies on the internet to deliver and receive data, it puts the connection at risk.
- D. The output of the Reservation of Facility and Equipment Inventory System will be evaluated by the Administrative Officer or staff and assess the made reservation of the user.
- E. Once a week, the Reservation of Facility and Equipment Inventory System enhances the functionality. This makes up for the problems that were addressed and the new features that were added. The possibility exists that these changed functionalities will prevent further problems as time passes.
- F. Overall performance by the system's needs is one of the risks and challenges that the Reservation of Facility and Equipment Inventory System might encounter.
- G. The various bugs and errors discovered in the system are the most significant hazards and concerns related to unit testing. Even the simplest errors must be

rectified monitoring is a technique for eliminating both visible and unseen bugs.

- H. The students and the key client – the PUP Taguig Administrative Officer – will be responsible for user acceptance checking. They'll see if the system's criteria are met and if it's relevant to the Administrative Office.

FEATURES TO BE TESTED

Features to be tested included the following:

A. Admin Module

1. Log-in and Log-out
2. Browse Request
 - 2.1 by Title
 - 2.2 by Date
 - 2.3 by Time
 - 2.4 by Venue
3. Calendar
4. Dashboard
5. Record Reservation
 - 5.1 Facility
 - 5.2 Equipment
6. Track Users Activity

7. Assess

7.1 Delete

7.2 Approved

8. Generating of Reports

8.1 Reservation

8.2 Inventory

B. Users Module

B.1 Students

1. Login and Logout

2. Request Reservation

2.1 by Date

2.2 by Time

2.3 by Title

2.4 by Facility

2.5 by Equipment

3. Check Request Updates

3.1 Pending

3.2 Assessed

3.3 Approved

3.4 Cancelled

3.5 View

3.6 Edit

4. Calendar

4.1 View Requests

5. Generating of Document

5.1 Downloadable Template

5.2 Downloadable Voucher

FEATURES NOT TO BE TESTED

APPROACH

PUPT-Reservation of Facility and Equipment Inventory System will be examined on a regular basis during the study process. Test cases are used in this procedure. The developers are in charge of the functionalities, making sure that any problems found are fixed.

ITEMS PASS/FAIL CRITERIA

The basic functions of all systems should perform as expected and as stated in the individual test cases. There must be no serious defects, and a user must be able to accomplish a transaction period and start a return without committing any errors. All test cases should pass 95% of the time, and none of the failed instances should be crucial to the app's end-users'

ability to utilize it.

SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS

- Only if the device fails to function as expected or if the developers are updating it will the test be halted. It will begin again once the developers have uploaded the most recent version and verified that all functions are working properly.
- The test can only be suspended if the person in charge is unavailable.
- The test would only be halted if the device is being implemented during Administrative Office business hours. It will restart when it is no longer in service.
- The test will only be terminated if the device is not functioning properly or if it is unavailable due to system upgrades or modifications. It will only start up again once all of the issues, bugs, and errors have been resolved.

TEST DELIVERABLES

- Software Test Plan
- Software Test Result
- Test Cases
- Sample Data
- Problem reports and corrective actions

REMAINING TEST TASKS

Testing tasks include the following:

- Test plan prepared
- Functional specifications written and delivered to the testing team
- Creating test cases/scenarios
- Environment should be ready for testing (e.g. Test data)
- Perform the tests
- Reporting bugs

ENVIRONMENTAL NEEDS

The following elements are required to support the overall testing effort at all levels within the system.

- A. The software requirements include: a computer or laptop with minimum requirements, a printer, and a broadband, modem, dial-up, or any kind of source for internet connection.
- B. The project requires a test plan and test cases.
- C. The project runs on the browser and pdf reader.

STAFFING AND TRAINING NEEDS

To provide complete and proper testing the following areas need to be addressed in terms of training.

- A. The developers as well as the management will be in charge for testing. Both the users and person in charge of setting up the project need to be computer literate.
- B. The project requires to be tested on the graduating students of the course Diploma in Information Communication Technology, who will submit their finished research online. The system will run on either their personal computer or the desktop at the library.
- C. The team project members will be the people who will initiate the testing.
- D. The project is required to be tested on the students who will upload their research, as well as the person assigned to handle the research. The student is in-charge of printing the document and must present it to the person in charge to have his transaction validated.

RESPONSIBILITIES

The lead tester is in charge of initiating the project's testing process, organizing availability, and, if necessary, training other users. Each tester should test each module thoroughly and accurately, as defined in the test cases. Errors must be identified as soon as possible to the programmers so that prompt action can be taken. All threats should also be conveyed to the team by the lead tester.

SCHEDULE

The following research tasks have been scheduled in the project plan. The project schedule-timeline specifies the exact dates and times for each operation. The people needed for, and phase is also specified in the project schedule and plan. Coordination of the personnel required for each task test team, development team, management, and the customer will be handled by the project manager in conjunction with the development and test team leaders.

Items to test	Test Description	Responsibility
Super Admin Module		
Login & Logout	Test if the system allows the admin to login and logout their account	Tester
Set reservations to preview	Test if the system allows the super admin to set users to preview	Tester
Add Date	Test if the system allows the super admin to add date	Tester
Activate & Deactivate Date	Test if the system allows the super admin to activate and deactivate the date	Tester
Add Time	Test if the system allows the super admin to add time	Tester
Activate & Deactivate Time	Test if the system allows the super admin to activate and deactivate Time	Tester
Add Facility	Test if the system allows the super admin to add facility and equipment	Tester
Activate & Deactivate Facility	Test if the system allows the super admin to activate and deactivate courses	Tester
Add Purpose	Test if the system allows the super admin to add purpose	Tester
Activate & Deactivate Purpose	Test if the system allows the super admin to activate and deactivate purpose	Tester
Add Faculty Status	Test if the system allows the super admin to add faculty status	Tester
Activate & Deactivate Faculty Status	Test if the system allows the super admin to activate and deactivate faculty status	Tester
Add Equipment Status	Test if the system allows the super admin to add equipment status	Tester
Activate & Deactivate Equipment Status	Test if the system allows the super admin to activate and deactivate equipment status	Tester
Add Assessed Request	Test if the system allows the super admin to add assessed request	Tester
Activate & Deactivate Assessed Request	Test if the system allows the super admin to activate and deactivate the assessed request	Tester
Add Approved Request	Test if the system allows the super admin to add approved request	Tester
Activate & Deactivate Approved Request	Test if the system allows the super admin to activate and deactivate approved request	Tester

Add Canceled Request	Test if the system allows the super admin to add canceled request	Tester
Activate & Deactivate Canceled Request	Test if the system allows the super admin to activate and deactivate canceled request	Tester
Add View Request	Test if the system allows the super admin to add view request	Tester
Activate & Deactivate View Request	Test if the system allows the super admin to activate and deactivate view request	Tester
Add Roles	Test if the system allows the super admin to add roles	Tester
Activate & Deactivate Roles	Test if the system allows the super admin to activate and deactivate roles	Tester
Add Modules	Test if the system allows the super admin to add modules	Tester
Activate & Deactivate Modules	Test if the system allows the super admin to activate and deactivate modules	Tester
Add Permission	Test if the system allows the super admin to add permission	Tester
Activate & Deactivate Permission	Test if the system allows the super admin to activate and deactivate permission	Tester
Add User Accounts	Test if the system allows the super admin to add a user account	Tester
Activate & Deactivate User Accounts	Test if the system allows the super admin to activate and deactivate user account	Tester
Administrator Module		
Login & Logout	Test if the system allows the admin to login and logout their account	Tester
Assess Request	Test if the system allows the admin to assess their request	Tester
Approve Request	Test if the system allows the admin to approve their request	Tester
Canceled Request	Test if the system allows the admin to cancel the request	Tester
Add Facility	Test if the system allows the admin to enable add facility.	Tester
Add Equipment	Test if the system allows the admin to add equipment	Tester
Configure Availability of Facility	Test if the system allows the admin to configure the availability of the facility	Tester
Configure Availability	Test if the system allows the admin to	Tester

of Equipment	configure the availability of equipment.	
View Reservation	Test if the system allows the admin to view reservations	Tester
User Activity Log	Test if the system allows the admin to view the activities done by the user	Tester
Add Users	Test if the system allows the admin to users	Tester
Users Module		
Login & Logout	Test if the system allows the user to login and logout their account	Tester
Browse by Title	Test if the system allows the user search research by title	Tester
Make Reservation of Facility	Test if the system allows the users to make reservations of facility	Tester
Make Reservation of Equipment	Test if the system allows the users to make reservations of equipment	Tester
Review Request	Test if the system allows the users to review request	Tester
Edit Request	Test the system if the system allows the users to edit request	Tester
Cancel Request	Test if the system allows the users to cancel the request	Tester
Download Voucher	Test if the system allows the users to download voucher	Tester

RISKS AND CONTIGENCIES

There's a potential or concern that undetected mistakes and backlogs will cause the flow to stop during device testing. If the initial testing is not completed on time, bug repairs and final testing may be delayed. This would have an impact on the system's proper implementation, potentially leading to failure.

APPROVALS FOR FIRST DRAFT TESTING

The undersigned acknowledge they have reviewed the **Online Reservation System Test Plan** document and agree with any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

Signature:		Date:	
Print Name:	Lamata, Joshua		
Title:	Student		
Role:			

Signature:		Date:	
Print Name:	Villanueva, Leciram		
Title:	Student		
Role:			

APPROVALS FOR SECOND DRAFT TESTING

The undersigned acknowledge they have reviewed the **Reservation of Facility and Equipment Inventory System** document and agree with the approach it presents. Any changes to this Requirements Definition will be coordinated with and approved by the undersigned or their designated representatives.

Signature: _____ Date: _____

Print Name: _____ Sescar, John Timothy L.

Title: _____ Student

Role: _____ Lead Programmer, Project Manager

Signature: _____ Date: _____

Print Name: _____ Limba, David L.

Title: _____ Student

Role: _____ System Analyst

Signature: _____ Date: _____

Print Name: _____ Traqueña. Irish D.

Title: _____ Student

Role: _____ Document Analyst

Signature: _____ Date: _____

Print Name: _____ Dacanay, John Russel L.

Title: _____ Student

Role: _____ Quality Assurance Analyst

GLOSSARY

The following table provides definitions for terms relevant to this document.

Term	Definition
Inventory	A complete list of items e.g. equipment.
PUP Taguig	On one of the branches of Polytechnic University of the Philippines, which is in General Santos Ave., Taguig City
Voucher	A document used for validation of transaction