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| **UNIVERSITY OF INFORMATION TECHNOLOGY**  SOFTWARE TECHNOLOGY |
| TEST PLAN FOR  **“JEWELRY MANAGEMENT SYSTEM”**  -Software Testing- |
| Group 13: |
| Tester :  **Nguyễn Thị Thúy Hằng 21520822 Nguyễn Khánh Huy 22520560 Trần Đình Phương Linh 22520778**  **Đặng Thị Ngọc Minh 22520857** |

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# OVERVIEW

* 1. **PRODUCT NAME**

Jewelry Management System

* 1. **PRODUCT REVISION**

Last vision.

## TEST PROJECT STAFF

* + 1. Nguyễn Thị Thúy Hằng - 21520822
    2. Nguyễn Khánh Huy - 22520560
    3. Trần Đình Phương Linh - 22520778
    4. Đặng Thị Ngọc Minh - 22520857

## PRODUCT OVERVIEW

Program’s functions :

* + 1. Log In.
    2. Sign Up.
    3. Product Management.
    4. Product Type Management.
    5. Provider Management.
    6. Purchase Order Management.
    7. Sell Order Management.

# TEST PLAN OBJECTIVE

This Test Plan for the tool for “Jewelry Management System” supports the following objectives:

* Identify the strategies that will be used to verify and ensure the product meets its desired specifications and other requirements.
* Define the objectives and scope for the testing effort.
* Identify the methodology that test team will use to conduct tests.
* Identify the hardware, software and tools required for testing.
* Define functions and features that will be tested.
* Determined risk factor that jeopardize testing.
* Schedule for testing with the specific assignment for each member.

# TESTING STRATEGY

The test strategy consists of a series of different tests that will fully exercise the visualizing application. The primary purpose of these tests is to uncover the system’s limitations and measure its full capabilities. A list of the various planned tests and a brief explanation follows below.

### System Test

The System tests will focus on the behavior of the visualizing system. User scenarios will be executed against the system as well as screen interacting and error message testing. Overall, the system tests will test the integrated system and verify that it meets the requirements defined in the requirements document.

### Performance Test

Performance tests will be conducted to ensure that the visualizing system’s response time meet the user expectations and does not exceed the specified performance criteria. During these tests, response times will be measured under heavy stress.

### Stress Test

### We will subject our purchase and sales billing systems to high input and high data volumes during peak periods.

### Documentation Test

Tests will be conducted to check the accuracy of the output Microsoft word documentation. These tests will ensure that no features are missing, and the contents can be easily understood.

### General Testing Process Approach

* + 1. Review project document.
    2. Design test strategy and Determine test requirements.
    3. Create a test plan.
    4. Design test case template.
    5. Design and build test cases.
    6. Execute test plan.
    7. Create test report.

### Items to be tested

* + 1. *“Log In” function.*
    2. *“Sign Up” function.*
    3. *“Product Management” function.*
    4. *“Product Type Management" function.*
    5. *“Provider Management" function.*
    6. *“Purchase Order Management" function.*
    7. *“Sell Order Management" function.*

### Items *not* to be Tested

* + 1. *“Customer Management” function.*
    2. *“Service Management" function.*
    3. *“Employee Management" function.*
    4. *“Calculation Unit Management” function.*
    5. *Service Order Management" function.*
    6. *Prepayment Rate.*

1. HARDWARE / SOFTWARE RESOURCES

### Hardware Requirements

* + 1. CPU >= 1.0 GHz
    2. RAM >= 300 MB
    3. Hard Disk Space available >= 100 MB
    4. Graphic Card with Memory size >= 100MB

### Software Requirements

* + 1. The current Windows version can update.
    2. Microsoft SQL Server 2019
    3. Microsoft Visual Studio 2022
    4. .NET Frameworks 4.8 or later.

### Standards/Reference material

* + 1. [*http://www.cse.hcmut.edu.vn/~minhnnn/File/Document/ST/Assignment/Assignment.pdf*](http://www.cse.hcmut.edu.vn/~minhnnn/File/Document/ST/Assignment/Assignment.pdf)

# TYPES OF TESTING

## FEATURE TEST

### Features to be tested:

* + - 1. *“Log In” function:*
         * Log in the registered account to the system.
      2. *“Sign Up” function:*
         * Create a new account.
      3. *“Product Management” function*
         * Create new product.
         * Delete existing product.
         * Export excel file to product list.
         * Product search.
      4. *“Product Type Management” function:*
         * Create new product types.
         * Delete existing product type.
         * Export excel file to product type list.
         * Product type search.
      5. *“Provider Management” function:*
         * Create a new provider.
         * Delete existing provider.
         * Export excel file to provider list.
         * Provider search.
      6. *“Purchase Order Management" function:*
         * Create a new purchase order.
         * Delete existing purchase order.
         * Export excel file to purchase order list.
         * Export purchase order list pdf file.
         * Purchase order type search.
         * Add products in one purchase order.
      7. *“Sell Order Management" function:*
         * Create a new sell order.
         * Delete existing sell order.
         * Export excel file to sell order list.
         * Export sell order list pdf file.
         * Sell order type search.
         * Add products in one sell order.

### Features not to be tested:

* + - 1. *“Customer Management” function.*
      2. *“Service Management" function.*
      3. *“Employee Management" function.*
      4. *“Calculation Unit Management” function.*
      5. *Service Order Management" function.*
      6. *Prepayment Rate.*

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# RISKS AND CONTINGENCIES

|  |  |  |
| --- | --- | --- |
| **STT** | **Risk** | **Contingency plan** |
| 1 | Requirement changes affect to human  resources and test strategy | Re-edit test plan to meet new requirements |
| 2 | Application is not able to be built on time | Re-build in other PCs and testing team must follow the schedule strictly |
| 3 | Virus effectively | Highlight this to everyone in team, update newest version for anti virus program |
| 4 | Executed test case lost | Hand in executed testcase report / document to team leader by the end of day via e-mail |

1. **SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS**

### Suspension criteria:

* Hardware/software is not available at the times indicated in the project schedule.
* Source code contains one or more critical defects, which seriously prevents or limits testing progress.
* Assigned test resources are not available when needed by the test team.

### Resumption Requirements:

If testing is suspended, resumption will only occur when the problem(s) that caused the suspension has been resolved. When a critical defect is the cause of the suspension, the “FIX” must be verified by the test department before testing is resumed.

# TEST SCHEDULE AND RESOURCES

* 1. Test schedule:

A screenshot of a document

Description automatically generated

* 1. Resources:

The test team will consist of 4 Testers

1. **ROLES AND RESPONSIBILITIES**

|  |  |  |
| --- | --- | --- |
| **Worker** | **Minimum Resources Recommended** | **Specific Responsibilities / Comments** |
| **Tester Management**  Nguyễn Thị Thúy Hằng  Nguyễn Khánh Huy  Trần Đình Phương Linh  Đặng Thị Ngọc Minh | 25%  25%  25%  25% | Provides management oversight Responsibilities:  Provide Technical direction  Acquire appropriate resources  Management reporting  Ensure test environment and assets are managed and mantained. |
| **Test Designer**  Nguyễn Thị Thúy Hằng  Nguyễn Khánh Huy  Trần Đình Phương Linh  Đặng Thị Ngọc Minh | 50%  25%  25%  25% | Identifies, prioritizes, and implement test cases Responsibilities:   * Generate test case * Evaluate effectiveness of test effort * Prepare test data * Review and Maintain Test Cases |
| **Tester**  Nguyễn Thị Thúy Hằng  Nguyễn Khánh Huy  Trần Đình Phương Linh  Đặng Thị Ngọc Minh | 25%  50%  50%  50% | Execute the tests Responsibilities:   * Communicate Test Results to Stakeholders * Execute tests * Log results * Document defects |

1. **DELIVERABLES**

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **Responsibility** | **Completion Date** |
|  |  |  |
| Develop Test cases | Testers | 23/11/2024 |
|  |  |  |
| Test Case Review | Testers | 23/11/2024 |
|  |  |  |
| Execute manual | Testers | 23/11/2024 |
|  |  |  |
| Complete Defect Reports | Testers | 23/11/2024 |