**MINISTRY OF EDUCATION**

**AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

Distribution Management System in Pharmaceutical

Report #5 – Software Testing

|  |  |
| --- | --- |
| Distribution Mangement System in Pharmaceutical | |
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| Capstone Project code | DMS |

- Ha Noi, 09/2014 –

Contents

[5.1. Introduction 3](#_Toc406722293)

[5.1.1. System Overview 3](#_Toc406722294)

[5.1.2. Test Approach 3](#_Toc406722295)

[5.2. Test plan 3](#_Toc406722296)

[5.2.1. Scope of testing 3](#_Toc406722297)

[5.2.2. Requirement for testing 4](#_Toc406722298)

[5.2.3. Test strategy 7](#_Toc406722299)

[5.3. Test Cases 12](#_Toc406722300)

[5.3.1. Login 12](#_Toc406722301)

[5.3.2. Logout 16](#_Toc406722302)

[5.3.3. Change Password 16](#_Toc406722303)

[5.3.4. View Home 21](#_Toc406722304)

[5.3.5. Manage Calendar Event 22](#_Toc406722305)

[5.3.6. Manage Case 28](#_Toc406722306)

[5.3.7. Manage Customer 214](#_Toc406722307)

[5.3.8. Manage Staff 231](#_Toc406722308)

[5.3.9. Manage Service 250](#_Toc406722309)

[5.3.10. Statistics 262](#_Toc406722310)

[5.3.11. Manage Office 267](#_Toc406722311)

[5.4. Checklists 282](#_Toc406722312)

[5.4.1. Checklist of Validation 282](#_Toc406722313)

[5.4.2. Submission Checklist 282](#_Toc406722314)

[5.5. Test Logs 282](#_Toc406722315)

[5.5.1. Defect Logs 282](#_Toc406722316)

[5.5.2. Test Report 283](#_Toc406722317)

## Introduction

### System Overview

* This document describes plan and methods used in testing stage, an important step for grading the quality of product before packaging it.
* Testing group would plan, manage and execute the process of testing. Testers must execute and pass all test cases and technical details of system features.
* The testing group is also the coding group of Distribution Management System of pharmaceutial.

### Test Approach

The testing of project include unit test system test and acceptance test levels. It is hoped that there will be as less problem as possible in project.

* Unit testing will be done by team member and will be approved by team leader.
* System testing will be performed by all member of team. It will check all main-flow of the system to discover error or bugs that can’t be found on unit testing level.
* Acceptance testing will be performed by all members of team.

## Test plan

### Scope of testing

The scope of testing in the project include:

* **Stages of testing**: the team has responsibility to conduct Unite testing, Integration testing and System testing
* **Types of testing**: The test team use functional test, white-box test and user interface testing
* **Range of testing**: Team performs testing all functions defined in the SRS based on the approved version. Test cases of each function are defined in the Test cases document that will be tested to determine if they meet the requirements and intermediate result will also be checked according to the SRS

### Requirement for testing

#### Test items

|  |  |  |
| --- | --- | --- |
| ID | Group of function | Function |
| UC0001 | Account Control | Register |
| UC0002 | Login |
| UC0003 | Logout |
| UC0004 | Change Password |
| UC0005 | Manage Order | Create Order |
| UC0006 | Cancel Order |
| UC0007 | View Order Detail |
| UC0008 | View Order History |
| UC0009 | Approve Order |
| UC0010 | Change status Order |
| UC0011 | Manage Drug Store | Approve Drug Store |
| UC0012 | Verify kind of Drug Store |
| UC0013 | Manage Drug | Add Drug |
| UC0014 | Edit Drug |
| UC0015 | Delete Drug |
| UC0016 | View all Drug |
| UC0017 | Search Drug |
| UC0018 | View Drug detail |
| UC0019 | Manage Category | Create Category |
| UC0020 | Edit Category |
| UC0021 | Delete Category |
| UC0022 | Manage Schedule | Create Schedule |
| UC0023 | Update Schedule Status |
| UC0024 | Manage Salesman | Assign Sales man to Group |
| UC0025 | Manage Account | Create Account |
| UC0026 | Deactivate Account |
| UC0027 | Activate Account |

Table 5-1: Requirement for testing

#### Acceptance Test Criteria

* Test coverage on system test: >= 97%
* Test successful coverage: >= 97%

Number of test cases failed: less than 3% of total test cases

#### Constraints

* Duration of system testing is from 17 November to 9 December
* Testing team require 2 members

#### Risk list

The project could face with some risks:

* Lack of human resource
* Not enough test case cover for business project

### Test strategy

#### Test policy

* “Test without good faith”
* “Find bugs as soon as possible and always make sure they have been fixed”
* “No outstanding high severity faults”
* “Ensuring the product covers key features and attributes requirements”
* “Each primary function has at least one test case”
* “Focus on main function”
* “If any test fails we need to test again”
* “Using valid and invalid data”

#### Test Model

Using V-Model to implement testing process

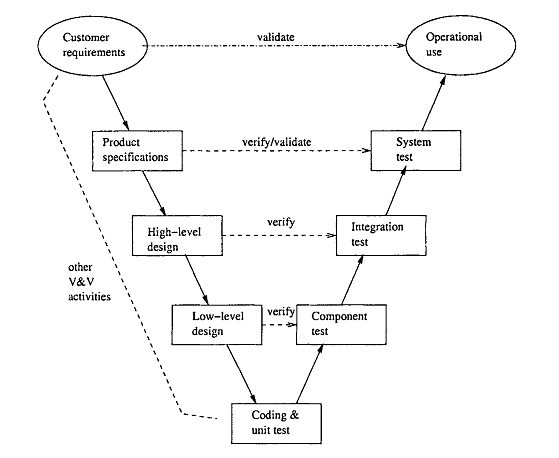


Figure 5-1: V-Model to implement testing process

Due to scope of DMS project and project must always fulfill user requirements. With V-Model, software development is separated into two appropriate phases’ groups: development and testing. Testing phase is carried out simultaneously from the early of project, the requirement specification phase. Therefore, tester could study and understand the entire requirement as well as business of project

Moreover, there are many variations among planning, design and implementation during the whole project. To catch up with all changes and ensure logic as well as business, V-model is chose as a solution to help testers control and follow the actual workflows.

This testing is executed to ensure that all requirements mentioned in SRS, included both functional requirements and non-functional requirements which are implemented correctly.

* **Technique:**
* **Integration test**: Base on requirement in SRS and validation in database, test team will test as black box testing method to check if the input and output display as expected and does that flow work fluently
* **System** **testing**: Based on requirements in SRS, test team will create scenarios for system testing (ST) to ensure project’s business. In ST, tester will create test cases based on these scenarios and run to verify functional and non-functional requirements.
* **Completion criteria:**
* All planned test cases have been executed compared with expected result in test cases.
* System test cases must be green (passed) at least 97%
* All defects must be logged into test documents and re-tested after it is fixed.
* All defects, which are accepted by customer or project technical leader and project manager, will be marked as accepted and not be retested.
* All defects must be resolved or accepted.
* These criteria will be applied for all test types.
* **Special considerations:**
* Test databases will be required
* Testing may be stopped when
* Time runs out
* A certain number of defects found
* Test coverage > 97%
* Stop when testing becomes unproductive.

#### Type of testing

##### Functional Testing

Function testing of the target-of-test should focus on any requirements for test that can be traced directly to use cases or business functions and business rules.  The goals of these tests are to verify proper data acceptance, processing, and retrieval, and the appropriate implementation of the business rules.  Identified below is an outline of the testing recommended for each application?

|  |  |
| --- | --- |
| Test Objective: | The type of this test is to ensure proper target-of-test functionality, including user interaction, all function defined in specification document implemented correctly. |
| Technique: | The test team will use use-case testing or checklist-base testing to verify the following:  Checking performance of software interface function.  The appropriate error or warning messages are displayed when invalid data is used.  Each business rule is properly applied. |
| Completion Criteria: | All test case and checklist have been executed and successful coverage > =97%. |
| Special Considerations: | Testing may be stopped when   * Time runs out * A certain number of defects found * Test coverage > 97% * Stop when testing becomes unproductive |

Table 5-2: Functional testing

##### User Interface Testing

User Interface (UI) testing verifies a user’s interaction with the software. The goal of UI testing is to ensure that the User Interface provides the user with the appropriate access and navigation through the functions of the target-of-test.  In addition, UI testing ensures that the objects within the UI function as expected and conform to corporate or industry standards.

|  |  |
| --- | --- |
| Test Objective: | Verify the following: Navigation through the target-of-test properly reflects business functions and requirements, including window-to-window, field-to-field, and use of access methods (tab keys, mouse movements, accelerator keys |
| Technique: | Use checklist and finite-state machine to create test case. |
| Completion Criteria: | All test case and checklist have been executed and successful coverage > =97%. |

Table 5-3: User Interface testing

#### Test stage

Clearly state the stage in which the test will be executed. Identified below are the stages in which common test are executed

|  |  |  |  |
| --- | --- | --- | --- |
| Type of Tests | Stage of Test | | |
| Unit | Integration | System |
| Function Test |  | x | x |
| User Interface test | x |  | x |
| White-box test | x |  |  |

Table 5-4: Test stages

#### Tools

|  |  |  |  |
| --- | --- | --- | --- |
| Purpose | Tool | Vendor/In-house | Version |
| Access to website | Firefox |  |  |
| Keep tracking defects | MS Word |  | Office 2010 & 2013 |
| Test Plan | MS Word |  | Office 2010 & 2013 |
| Test Case, Test Report | MS Excel |  | Office 2010 & 2013 |

Table 5-5: Tools

#### Resources

This table shows the staffing assumptions for the project.

|  |  |
| --- | --- |
| Worker/Doer | Specific Responsibilities/Comments |
| Tạ Đức Tùng  Nguyễn Trọng Việt | Manage Test resource and assign test tasks  Create Test Plan  Review Test Cases  Execute Test  Create Test Report  Execute Test |

**Table 5-6: Human resource**

#### Schedule

Duration of all testing is from 27 October to 9 December

Duration of create test plan, test case and checklist are from 20 October to 3 November

## Test Cases

### Account Control

#### Register

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Resgister | | | | | | | |
| Steps  1. User Click on “Đăng kí” link on [Home] page. | | | | | | | |
| RE\_01 | Test Register Success |  | 1. User click on “Đăng kí”.  2. Input valid all field required. | A new Drugstore account created | Pass | 17/11/2015 |  |
| RE\_02 | Test Register Fail |  | 1. User click on “Đăng kí”.  2. Input invalid email. | No Account created and display error message “Định dạng email không đúng” | Pass | 17/11/2015 |  |
| RE\_03 | Test Register Fail |  | 1. User click on “Đăng kí”.  2. Input Password over 32 characters | No Account created and display error message “Mật khẩu quá dài xin thử lại” | Pass | 17/11/2015 |  |
| RE\_04 | Test Register Fail |  | 1. User click on “Đăng kí”.  2. Input Password under 16 characters | No Account created and display error message “Mật khẩu quá ngắn xin thử lại” | Pass | 17/11/2015 |  |

#### Login

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Pre-conditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Login | | | | | | | |
| Steps  1. Go to Index page  2. Click on “Login” button | | | | | | | |
| AU\_01 | Test Login  Blank Field |  | 1. Type url “http://localhost:19442/Login/Login” into location of web browser  Go to website Login page  2. Click [Đăng nhập] button | 1. Login page will be shown  2. Login fail and error message is displayed:  “Tên đăng nhập hoặc mật khẩu không đúng! ” | Pass | 17/11/2014 |  |
| AU\_02 | Test Login Successfully |  | 1. Type url “http://localhost:19442/Login/Login” into location of web browser  Go to website Login page  2. Login account:  - Input the account into “Tên đăng nhập” example “thuannh”  - Input password into “Mật khẩu” example “123456”  - Click [Đăng nhập] button | 1. Login page will be shown  2. Login succeed and displayed:  - Login successfully.  - [User] page will be shown. | Pass | 17/11/2014 |  |
| AU\_03 | Test Login with wrong username |  | 1. Type url “http://localhost:19442/Login/Login” into location of web browser  Go to website Login page  2. Login account:  - Input the account into “Tên đăng nhập” example “thuannh123”  - Input passowrd into “Mật khẩu” example “123456”  -Click [Đăng nhập] button | 1. Login page will be shown  2. Login fail and displayed message:  “Tên đăng nhập hoặc mật khẩu không đúng! ” | Pass | 17/11/2014 |  |
| AU\_04 | Test Login with wrong password |  | 1. Type url “http://localhost:19442/Login/Login” into location of web browser  Go to website Login page  2. Login account:  - Input the account into “Tên đăng nhập” example “thuannh”  - Input password into “Mật khẩu” example “123456789”  - Click [Đăng nhập] button | 1. Login page will be shown  2. Login fail and displayed message:  “Tên đăng nhập hoặc mật khẩu không đúng! ” | Pass | 17/11/2014 |  |
| AU\_05 | Test Login with accout is Active | User  ”thuannh” have status is Active | 1. Type url “http://localhost:19442/Login/Login” into location of web browser  Go to website Login page  2. Login account:  - Input the account into “Tên đăng nhập” example “thuannh”  - Input passowrd into “Mật khẩu” example “12345678”  -Click [Đăng nhập] button | 1. Login page will be shown  2. Login fail and displayed message:  “Nhân viên đang ngừng hoạt động!” | Pass | 17/11/2014 |  |
| AU\_06 | Test Login with error server |  | 1. Type url “http://localhost:19442/Login/Login” into location of web browser  Go to website Login page  2. Login account:  - Input the account into “Tên đăng nhập” example “thuannh”  - Input passowrd into “Mật khẩu” example “123456”  -Click [Đăng nhập] button | 1. Login page will be shown  2. Login fail and displayed message:  “Lỗi kết nối đến máy chủ! | Pass | 17/11/2014 |  |

#### Logout

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Logout | | | | | | | |
| Steps  1. User have login into system.  2. Click “Đăng xuất” in Control panel. | | | | | | | |
| AU\_07 | Test Logout | User have login | 1. Login account succesful  2. Logout account:  -Click on user account in right of the top  -Click [Đăng xuất] button | 1. [User] page will be shown  2. Logout success and go back to website Login page | Pass | 17/11/2014 |  |

#### Forgot pasword

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Forgot Password | | | | | | | |
| Steps  1. User go to [Login] page.  2. Click [Quên mật khẩu] button. | | | | | | | |
| AU\_17 | Test Forgot password | User have an account | 1. Input email in [EmailTextBox]  2. Click [Xác nhận] button. | New Password send to input email | Pass | 17/11/2015 |  |

#### Change Password

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Change Password | | | | | | | |
| Steps  1. User have logininto system.  2. Click “Đổi mật khẩu” in Control panel. | | | | | | | |
| AU\_08 | Test change password screen | User have login | 1. Login account succesful  2. Go to change password screen:  - Click on user account in right of the top  -Click [Đổi mật khẩu] button | 1. [User] page will be shown  2.“Thay đổi mật khẩu” Popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng] | Pass | 17/11/2014 |  |
| AU\_09 | Test change password  Blank Field | AC\_08 | 1. Login account succesful  2. Go to change password screen:  - Click on user account in right of the top  -Click [Đổi mật khẩu] button  3. Test blank field:  Click [Đổi mật khẩu] button in “Thay đổi mật khẩu” popup | 1. [User] page will be shown  2.“Thay đổi mật khẩu” popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng]  3. Error message is displayed:  “Hãy nhập lại mật khẩu cũ ”  “Hãy nhập mật khẩu mới.”  “Hãy nhập lại mật khẩu mới.” | Pass | 17/11/2014 |  |
| AU\_10 | Test change password  Input not enough 6 character in field “Mật khẩu mới” and “Lặp lại mật khẩu mới” | AC\_08 | 1. Login account succesful  2. Go to change password screen:  - Click on user account in right of the top.  -Click [Đổi mật khẩu] button  3. Change password:  -Input “123” to “Mật khẩu mới” text box  -Input “123” to “Lặp lại mật khẩu mới” text box | 1. [User] page will be shown  2.“Thay đổi mật khẩu” popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng]  3. Error message is displayed:  “Mật khẩu mới phải có ít nhất 6 kí tự.” | Pass | 17/11/2014 |  |
| AU\_11 | Test change password  Input character in field “Mật khẩu mới” and “Lặp lại mật khẩu mới” diffirent | AC\_08 | 1. Login account succesful  2. Go to change password screen:  - Click on user account in right of the top.  -Click [Đổi mật khẩu] button  3. Change password:  -Input “123456” to “Mật khẩu mới” text box  -Input “123567” to “Lặp lại mật khẩu mới” text box | 1. [User] page will be shown  2.“Thay đổi mật khẩu” popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng]  3. Error message is displayed:  “Mật khẩu 2 không trùng khớp.” | Pass | 17/11/2014 |  |
| AU\_12 | Test change password  Input error old password(example: account “thuannh”) | AC\_08  Old password of user “thuannh” is 123456 | 1. Login account succesful  2. Go to change password screen:  - Click on user account in right of the top.  -Click [Đổi mật khẩu] button  3. Change password:  -Input “1234567” to “Mật khẩu cũ” text box  -Input “12356” to “Mật khẩu mới” text box  -Input “12356” to “Lặp lại mật khẩu mới” text box  - Click [Đổi mật khẩu] button | 1. [User] page will be shown  2.“Thay đổi mật khẩu” popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng]  3. Error message is displayed:  “Mật khẩu cũ không đúng !” | Pass | 17/11/2014 |  |
| AU\_13 | Test change password  Successfully(exampl: account “thuannh”) | AC\_08  Old password of user “thuannh” is 123456 | 1. Login account succesful  2. Go to change password screen:  - Click on user account in right of the top.  -Click [Đổi mật khẩu] button  3. Change password:  -Input “123456” to “Mật khẩu cũ” text box  -Input “123567” to “Mật khẩu mới” text box  -Input “123567” to “Lặp lại mật khẩu mới” text box  - Click [Đổi mật khẩu] button | 1. [User] page will be shown  2.“Thay đổi mật khẩu” popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng]  3. Success message is displayed:  “Cập nhật mật khẩu nhân viên thành công!”  New password of user “ thuannh” is 1234567 | Pass | 17/11/2014 |  |
| AU\_14 | Test change password  Close button | AC\_08 | 1. Login account succesful  2. Go to change password screen:  - Click on user account in right of the top.  -Click [Đổi mật khẩu] button  3. Close “Thay đổi mật khẩu” popup:  Click [Đóng] button or “X” button | 1. [User] page will be shown  2.“Thay đổi mật khẩu” Popup is displayed corectly  Two button [Đổi mật khẩu], [Đóng]  3. “Thay đổi mật khẩu” Popup is closed | Pass | 17/11/2014 |  |

### Manage Order

#### Create Order

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Create Order | | | | | | | |
| Steps  1. Log in System with Drugstore role.  2. Click on [Tạo đơn hàng] link in menu bar or Cart icon.  3. Add item to cart then press [Tạo đơn hàng] button.  4. Update delivery information.  5. Click the [Hoàn thành] button. | | | | | | | |
| SR\_1 | Order an invalid quantity of product | User have login | Input invalid quantity number of product | The error message will be shown next to the field | Pass | 18/11/2015 |  |
| SR\_2 | Post a request with validated input | User have login | 1.Fill all fields with validated input  2. Click [Hoàn thành] button | The request is saved into the database. A delivery request waiting for a Staff to approve of it. The customer is redirected to the request management page. | Pass | 18/11/2015 |  |

#### Cancel Order

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Cancel Order | | | | | | | |
| Steps  1. User have login into system.  2. Click on “Danh sách đơn hàng” in Control panel.  3. Click on [Hủy đơn] button | | | | | | | |
| OP\_07 | Test Cancel | User have login with Drugstore role | 1. Login account succesful  2. Click on “Danh sách đơn hàng” link in User Account Control  3. Click on [Hủy đơn] button. | Order change status to “Đã hủy” | Pass | 17/11/2014 |  |

#### Create Schedule

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Create Schedule | | | | | | | | |
| Steps  1. Login to System with Staff role.  2. Click on [Đơn giao hàng] link then press [Tạo mới] button | | | | | | | | |
| OP \_01 | | Create schedule succesfull | User have login | 1. Choose delivery man  **2.** Choose at least one order with to be delivery.  3. Press “Tạo đơn giao hàng” | Schedule has been created | Pass | 18/11/2015 |  |
| OP\_02 | | Create schedule faail | User have login | 1. Choose delivery man  **2.** Do not choose any order  3. Press [Tạo đơn giao hàng] button | Schedule has not been created. | Pass | 18/11/2015 |  |
| OP\_03 | | Create schedule fail | User have login | 1. Do not choose delivery man  **2.** Choose at least one order which want to be delivery  3. Press [Tạo đơn giao hàng] button | Schedule has not been create | Pass | 18/11/2015 |  |

#### View Order Detail

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| View Order Detail | | | | | | | | |
| Steps  1. Go to [Danh sách đơn hàng] page  2. Click on [Xem chi tiết] button or click on [OrderName] | | | | | | | | |
| EE \_01 | | Test View Order detail | User have login | 1. Login account succesful  **2.** Go to [Danh sách đơn hàng] page  **3.** Click on [Xem chi tiết] button | Show Order detail | Pass | 18/11/2015 |  |

#### View all Order

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| View All Order | | | | | | | | |
| Steps  1. Go to [Danh sách đơn hàng] page  2. Click on [Xem tất cả] button | | | | | | | | |
| EE \_01 | | Test View all Order Successful | User have login | 1. Login account succesful  **2.** Go to [Danh sách đơn hàng] page  3. Click on [Xem tất cả] button | Show list all Order | Pass | 18/11/2015 |  |

#### Approve Order

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Approve Order | | | | | | | | |
| Steps  1. Go to [Danh sách đơn hàng] page  2. Click on [Xác nhận] button | | | | | | | | |
| SE \_01 | | Test Approve Order Successful | User have login | 1. Login account succesful  **2.** Go to [Danh sách đơn hàng] page  3. Click on [Xác nhận] button | Change status to “Đã xác nhận” | Pass | 18/11/2015 |  |

#### View Order history

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Search Calendar Event | | | | | | | | |
| Steps  1. Go to [Lịch sử đơn hàng] page | | | | | | | | |
| SE \_01 | | Test View Order History | User have login | 1. Login account succesful  **2.** Go to [Lịch sử đơn hàng] page | Show all Order History | Pass | 18/11/2015 |  |

### Manage Drug Store

#### Manage Drug Store

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Approve Drug Store | | | | | | | |
| Steps  1. Login the system with “Salesman” role  2. Go to [Quản lý nhà thuốc] Page | | | | | | | |
| LC\_1 | Test Approve Drugstore Successful | User have login | 1. Login account with “Sales” role succesful  2. Go to [Quản lý nhà thuốc] Page]  3. Click on [Chấp nhận] button | Change status to “Đã xác nhận” | Pass | 19/11/2015 |  |

#### Verify kind of Drug Store

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Pre-conditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Verify Drug Store | | | | | | | |
| Steps  1. Login the system with “Salesman” role  2. Click on “Quản lí nhà thuốc” link in User Control Panel.  3. Click on [DrugStoreName] or [Chỉnh sửa] button. | | | | | | | |
| CA\_01 | Test Verify kind of Drug Store | Login with “Salesman” role. | 1. Login account with “Salesman” role successful.  2. Go to [Quản lí nhà thuốc] page.  3. Click on [DrugStoreName]  4. Click on [DropDownList] and choose [KindOfDrugStore] | Kind of DrugStore changed | Pass | 19/11/2015 |  |

### Manage Drug

#### Add new Drug

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Add new Drug | | | | | | | | |
| Steps  1. User logged in system  2. Go to [Quản lí thuốc] page  3. Click on [Thêm mới] button | | | | | | | | |
| LC\_01 | | Test Add new Drug Successful | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Thêm mới] button.  4. Input all valid field.  5. Click on [Xác nhận] button | New Drug has been Added | Pass | 29/11/2015 |  |
| LC\_02 | | Test Add new Drug Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Thêm mới] button.  4. Input invalid DrugName.  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |
| LC\_03 | | Test Add new Drug Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Thêm mới] button.  4. Do not choose [Loại thuốc].  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |
| LC\_04 | | Test Add new Drug Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Thêm mới] button.  4. Input invalid currency format.  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |

#### Delete Drug

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | | Expected Output | Result | Test Date | Note |
| View Customer Detail | | | | | | | | | |
| Steps  1. User logged in system  2. Go to [Quản lý thuốc] page  3. Click on icon [Xóa] button | | | | | | | | | |
| VC\_01 | | Test Delete Drug successful | Staff logged in | | 1. Login account as authorized user successful  2. Go to [Quản lý thuốc] page  3. Click on [Xóa] button | A Drug choosen has been deleted | Pass | 29/11/2015 |  |

#### Edit Drug

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Edit Drug | | | | | | | | |
| Steps  1. User logged in system  2. Go to [Quản lí thuốc] page  3. Click on [Chỉnh sửa] button | | | | | | | | |
| LC\_01 | | Test Edit Drug Successful | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Chỉnh sửa] button.  4. Input all valid field.  5. Click on [Xác nhận] button | New Drug has been Added | Pass | 29/11/2015 |  |
| LC\_02 | | Test Edit Drug Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Chỉnh sửa] button.  4. Input invalid DrugName.  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |
| LC\_03 | | Test Edit Drug Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Chỉnh sửa] button.  4. Do not choose [Loại thuốc].  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |
| LC\_04 | | Test Add new Drug Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý thuốc] page  3. Click on [Chỉnh sửa] button.  4. Input invalid currency format.  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |

### Manage Category

#### Create Category

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Add Category | | | | | | | | |
| Steps  1. User logged in system  2. Go to [Quản lí nhóm thuốc] page  3. Click on [Thêm mới] button | | | | | | | | |
| LC\_01 | | Test Create new Category Successful | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý nhóm thuốc] page  3. Click on [Thêm mới] button.  4. Input all valid field.  5. Click on [Xác nhận] button | New Drug has been Added | Pass | 29/11/2015 |  |
| LC\_02 | | Test Create new Category Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý nhóm thuốc] page  3. Click on [Thêm mới] button.  4. Input invalid [CategoryName].  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |

#### Edit Category

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Edit Category | | | | | | | | |
| Steps  1. User logged in system  2. Go to [Quản lí nhóm thuốc] page  3. Click on [Chỉnh sửa] button | | | | | | | | |
| LC\_01 | | Test Edit Drug Successful | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý nhóm thuốc] page  3. Click on [Chỉnh sửa] button.  4. Input all valid field.  5. Click on [Xác nhận] button | New Drug has been Added | Pass | 29/11/2015 |  |
| LC\_02 | | Test Edit Drug Fail | Logged in with Staff role | 1. Login account as Staff user successful  2. Go to [Quản lý nhóm thuốc] page  3. Click on [Chỉnh sửa] button.  4. Input invalid DrugName.  5. Click on [Xác nhận] button |  | Pass | 29/11/2015 |  |

#### Delete Category

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | | Expected Output | Result | Test Date | Note |
| Delete Category | | | | | | | | | |
| Steps  1. User logged in system  2. Go to [Quản lý nhóm thuốc] page  3. Click on icon [Xóa] button | | | | | | | | | |
| VC\_01 | | Test Delete Category successful | Staff logged in | | 1. Login account as authorized user successful  2. Go to [Quản lý nhóm thuốc thuốc] page  3. Click on [Xóa] button | A Category choosen has been deleted | Pass | 29/11/2015 |  |

### Manage Schedule

#### Create Schedule

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Create Schedule | | | | | | | | |
| Steps  1. User logged in system with role Staff  2. Go to ManageSchedule page | | | | | | | | |
| OP\_01 | | Create Schedule | Login with “admin” role | 1. Login account as “Admin” role successful  2. Go to [Tạo đơn giao hàng] page  3. Choose at least one order want to be delivery.  4. Choose Deliveryman  5.Click [Tạo đơn] button. | Schedule has been Created | Pass | 26/11/2015 |  |
| OP\_02 | | Create Schedule | Login with “admin” role | 1. Login account as “Admin” role successful  2. Go to [Tạo đơn giao hàng] page  3. Donot choose order want to be delivery.  4. Choose Deliveryman  5.Click [Tạo đơn] button. | Schedule has not been Created and Show error Message | Pass | 26/11/2015 |  |
| OP\_03 | | Create Schedule | Login with “admin” role | 1. Login account as “Admin” role successful  2. Go to [Tạo đơn giao hàng] page  3. Choose at least one order want to be delivery.  4. Donot choose Deliveryman  5.Click [Tạo đơn] button. | Schedule has not been Created and Show error Message | Pass | 26/11/2015 |  |

#### Update Schedule

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Create Schedule | | | | | | | | |
| Steps  1. User logged in system with role Staff  2. Go to [Danh sách đơn đã tạo] page | | | | | | | | |
| OP\_01 | | Create Schedule | Login with “Staff” role | 1. Login account as “Staff” role successful  2. Go to [Danh sách đơn đã tạo] page  3. Click on [Hoàn thành] button. | Status has been changed to “Hoàn tất” | Pass | 26/11/2015 |  |

### Manage Salemans

#### Assign Salesman to Group

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | | Pre-conditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| View Statistics of revenue office in 12 months | | | | | | | | |
| Steps  1. User logged in system  2. Go to [Quản lý nhân viên kinh doanh] page  3. Click on [Chỉnh sửa] button | | | | | | | | |
| VS\_01 | | Test assign salesman to group they manage Success | User have login with role Staff | 1. Login account as Staff role successful  2. Go to [Quản lý nhân viên kinh doanh] page.  3. Click on [Chỉnh sửa] button  4. Choose “Group”.  5. Click on [Hoàn thành] button | Salesman has been assign to Group they manage. | Pass | 27/11/2015 |  |
| VS\_02 | | Test assign salesman to group they manage Fail | User have login with role Staff | 1. Login account as Staff role successful  2. Go to [Quản lý nhân viên kinh doanh] page.  3. Click on [Chỉnh sửa] button  4. Do not choose any “Group”.  5. Click on [Hoàn thành] button  office in 12 months | Salesman has not assigned to any Group and Display error message/ | Pass | 27/11/2015 |  |

### Manage Account

#### Create New

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Resgister | | | | | | | |
| Steps  1. User Click on “Quản lý tài khoản” User Control Panel.  2. User Click on [Tạo tài khoản] button. | | | | | | | |
| RE\_01 | Test Create Account Success |  | 1. User click on “Tạo tài khoản” button.  2. Input valid all field required. | A new Drugstore account created | Pass | 17/11/2015 |  |
| RE\_02 | Test Create Account Fail |  | 1. User click on “Tạo tài khoản” button.  2. Input invalid email. | No Account created and display error message “Định dạng email không đúng” | Pass | 17/11/2015 |  |
| RE\_03 | Test Create Account Fail |  | 1. User click on “Tạo tài khoản” button.  2. Input Password over 32 characters | No Account created and display error message “Mật khẩu quá dài xin thử lại” | Pass | 17/11/2015 |  |
| RE\_04 | Test Create Account Fail |  | 1. User click on “Tạo tài khoản” button.  2. Input Password under 16 characters | No Account created and display error message “Mật khẩu quá ngắn xin thử lại” | Pass | 17/11/2015 |  |

#### Deactive Account

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Deactivate Account | | | | | | | |
| Steps  1. User have login into system.  2. Click “Quản lý tài khoàn” in Control panel. | | | | | | | |
| AU\_07 | Test Deactivate Account | User have login | Click on [Khóa tài khoản] | Account has been Deactivated and change status to “Đang khóa” | Pass | 17/11/2014 |  |

#### Activate Account

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Test Case Description | Preconditions | Test Case Procedure | Expected Output | Result | Test Date | Note |
| Deactivate Account | | | | | | | |
| Steps  1. User have login into system.  2. Click “Quản lý tài khoàn” in Control panel. | | | | | | | |
| AU\_07 | Test Activate Account | User have login with Admin role | Click on [Mở tài khoản] | Account has been Activated and change status to “Đang hoạt động” | Pass | 17/11/2014 |  |

## Checklists

### Checklist of Validation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Question | Yes | No | N/A |
| 1 | Does a failure of validation on every field cause a sensible user error symbol? |  |  | x |
| 2 | Is the user required to fix entries which have failed validation tests? |  |  |  |
| 3 | Have any fields got multiple validation rules and if so are all rules being applied? |  |  |  |
| 4 | If the user enters an invalid value and clicks on the insert button is the invalid entry identified and highlighted correctly with an error symbol? |  |  | x |
| 5 | Is validation consistently applied at screen level unless specifically required at field level? |  |  | x |
| 6 | For all numeric fields check whether negative numbers can and should be able to be entered. |  |  | x |
| 7 | For all numeric fields check the minimum and maximum values and also some mid-range values allowable? |  |  | x |
| 8 | For all character/alphanumeric fields check the field to ensure that there is a character limit specified and that this limit is exactly correct for the specified database size? |  |  | x |
| 9 | Do all mandatory fields require user input? |  |  |  |
| 10 | If any of the database columns do not allow null values then the corresponding screen fields must be mandatory. (If any field which initially was mandatory has become optional then check whether null values are allowed in this field.) |  |  | x |

### Checklist for user interface

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Question | Yes | No | N/A |
| USABILITY | | | | |
| 1 | Are the entire field prompts spelt correctly? |  |  | x |
| 2 | Are fonts too large or too small to read? |  | x |  |
| 3 | Are names in command button & option box names are not abbreviations. |  | x |  |
| 4 | Assure that option boxes, option buttons, and command buttons are logically grouped together in clearly demarcated areas "Group Box" |  |  | x |
| 5 | Can the typical user run the system without frustration? |  |  | x |
| 6 | Does the site have a consistent, clearly recognizable "look-&-feel"? |  |  | x |
| 7 | Is all terminology understandable for all of the site’s intended users? |  |  | x |
| USER INTERFACE TESTING-COLOR | | | | |
| 1 | Are hyperlink colors standard? | x |  |  |
| 2 | Are the field prompts the correct color? | x |  |  |
| 3 | Are the field backgrounds the correct color? | x |  |  |
| 4 | Are the screen and field colors adjusted correctly for non-editable mode? | x |  |  |
| 5 | Does the site use (approximately) standard link colors? | x |  |  |
| 6 | Are all the buttons are in standard format and size? | x |  |  |
| 7 | Is the general screen background the correct color? | x |  |  |
| 8 | Is the page background (color) distraction free? |  |  | x |
| USER INTERFACE TESTING-CONTENT | | | | |
| 1 | All fonts to be the same | x |  |  |
| 2 | Are all the screen prompts specified in the correct screen font? | x |  |  |
| 3 | Is all text properly aligned? | x |  |  |
| 4 | Is the text in all fields specified in the correct screen font? | x |  |  |
| 5 | Is all the headings left aligned? | x |  |  |
| 6 | Does the first letter of the second word appear in lowercase? | x |  |  |

### Checklist for document

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| # | Question | Yes | No | N/A |
| TABLES AND FIGURES | | | | |
| 1 | Does every table column, including the stub column, have a heading? |  |  |  |
| 2 | Are references cited both in text and in the reference list? |  |  |  |
| 3 | Is lettering in a figure no smaller than 12 points and no larger than 14 points? |  |  |  |
| 4 | Are all figures and tables mentioned in the text and numbered in the order in which they are mentioned? |  |  |  |
| REFERENCES | | | | |
| 1 | Are references cited both in text and in the reference list? |  |  |  |
| 2 | Do the text citations and reference list entries agree both in spelling and in date? |  |  |  |
| 3 | Are journal titles in the reference list spelled out fully? |  |  |  |
| 4 | Are the references (both in the parenthetical text citations and in the reference list) ordered alphabetically by the authors’ surnames? |  |  |  |
| 5 | Are inclusive page numbers for all articles or chapters in books provided in the reference list? |  |  |  |
| 6 | Are references to studies included in your meta-analysis preceded by an asterisk? |  |  |  |
| FORMAT | | | | |
| 1 | Have you checked the journal’s website for instructions to authors regarding specific formatting requirements for submission? |  |  |  |
| 2 | Is the entire manuscript—including quotations, references, author note, content footnotes, and figure captions—double-spaced? Is the manuscript neatly prepared? |  |  |  |
| 3 | Are the margins at least 1 in. (2.54 cm)? |  |  |  |
| 4 | Are the title pages, abstracts, references, appendices, content footnotes, tables, and figures on separate pages (with only one table or figure per page)? Are the figure captions on the same page as the figures? Are manuscript elements ordered in sequence, with the text pages between the abstract and the references? |  |  |  |
| PARAGRAPHS AND HEADINGS | | | | |
| 1 | Is each paragraph longer than a single sentence but not longer than one manuscript page? |  |  |  |
| 2 | Do the levels of headings accurately reflect the organization of the paper? |  |  |  |
| 3 | Do all headings of the same level appear in the same format? |  |  |  |

## Test Logs

### Defect Logs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Module name** | **Defect** | **Priority** | **Status** | **Assign to** | **Fix on** | **Retest on** |
| 1 | Register | Cannot Show District after choose City | High | Complete | TungTD | 19/11/2015 | 20/11/2015 |
| 2 | Search Drug | When input wrong name, the result still be shown. | High | Complete | TungTD | 19/11/2015 | 20/11/2015 |
| 3 | Create Order | Not Validation minus values | High | Complete | TungTD | 20/11/2015 | 22/11/2015 |
| 4 | Edit Drug | Edit with blank field, Error message aren‘t be shown. | High | Complete | TungTD | 21/11/2015 | 23/11/2015 |
| 5 | Create Order | No limit quantity maximum. | High | Complete | TungTD | 27/11/2015 | 29/11/2015 |

### Test Report

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Name** | Distribution Managemanet System in Pharmaceutial. | **Creator** | TuanTD |
| **Project Code** | DMS | **Reviewer/Approver** | SangNV |
| **Document Code** | DMS\_TestReport | **Issue Date** | December  5th 2015 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Function** | | **Test Case** | | | | | | | **Checklist** | | |  |
| **No** | **Pass** | **Fail** | | **Untested** | | | **N/A** | **Pass** | **Fail** | **N/A** | **Total** |
|  | **Web Module** | | | | | | | | | | | | |
|  | Login | | 6 | 0 | | 0 | | | 0 | 27 | 0 | 4 | 37 |
|  | Logout | | 1 | 0 | | 0 | | | 0 | 22 | 0 | 9 | 32 |
|  | Change password | | 7 | 0 | | 0 | | | 0 | 29 | 0 | 2 | 38 |
|  | Forgot Password | | 1 | 0 | | 0 | | | 0 | 25 | 1 | 24 | 50 |
|  | Create Order | | 4 | 0 | | 0 | | | 0 | 31 | 0 | 0 | 35 |
|  | Cancel Order | | 2 | 0 | | 0 | | | 0 | 31 | 0 | 0 | 35 |
|  | View Order Detail | | 2 | 0 | | 0 | | | 0 | 24 | 0 | 7 | 33 |
|  | View All Order | | 2 | 0 | | 0 | | | 0 | 27 | 0 | 4 | 33 |
|  | Search Drug | | 8 | 0 | | 0 | | | 0 | 25 | 1 | 6 | 32 |
|  | View Order history | | 7 | 0 | | 0 | | | 0 | 31 | 0 | 18 | 56 |
|  | View Payment history | | 1 | 0 | | 0 | | | 0 | 27 | 0 | 4 | 32 |
|  | Set Discount rate | | 1 | 0 | | 0 | | | 0 | 25 | 1 | 6 | 32 |
|  | Approve Order | | 4 | 0 | | 0 | | | 0 | 31 | 0 | 0 | 35 |
|  | Add Drug | | 5 | 0 | | 0 | | | 0 | 25 | 0 | 6 | 32 |
|  | Edit Drug | | 5 | 0 | | 0 | | | 0 | 25 | 0 | 6 | 32 |
|  | Delete Drug | | 7 | 0 | | 0 | | | 0 | 31 | 0 | 0 | 38 |
|  | Search Drug | | 5 | 1 | | 0 | | | 0 | 31 | 1 | 0 | 38 |
|  | Create Category | | 5 | 0 | | 0 | | | 0 | 24 | 0 | 7 | 33 |
|  | Edit Category | | 5 | 0 | | 0 | | | 0 | 25 | 0 | 24 | 32 |
|  | Delete Category | | 1 | 0 | | 0 | | | 0 | 25 | 0 | 6 | 32 |
|  | Assign Salesman | | 5 | 0 | | 0 | | | 0 | 31 | 1 | 0 | 36 |
|  | Create Schedule | | 2 | 0 | | 0 | | | 0 | 24 | 0 | 7 | 33 |
|  | Update Schedule Status | | 2 | 1 | | 0 | | | 0 | 25 | 1 | 6 | 33 |
|  | Create Account | | 5 | 0 | | 0 | | | 0 | 25 | 0 | 6 | 32 |
|  | Activate Account | | 1 | 0 | | 0 | | | 0 | 25 | 0 | 6 | 32 |
|  | Deactivate Account | | 5 | 0 | | 0 | | | 0 | 31 | 0 | 0 | 36 |
|  | Verify Drugstore | | 5 | 0 | | 0 | | | 0 | 24 | 0 | 7 | 33 |
|  | Total | | 218 | 5 | | 0 | | | 0 | 2024 | 8 | 406 | 2661 |
|  | | **Test coverage** |  | |  | |  | 100% | | | | | |
|  | | **Test successful coverage** |  | |  | |  | 99,5% | | | | | |