**Document History**

Table Content

# Chapter One | 5.1 Introduction

A Software Test Plan is a document describing the testing scope and activities. It is the basis for formally testing any software or product in a project. For this Test Plan Document is provide for testing the software product cover the features in phase of implementation the progress report II.

## 5.1.1 Document purpose

Test plan document is a document used to determine and explain testing process of Diabetes care web application. The process of testing is purpose to find the software error that may occur during development process to make sure that the error has been reduce. Therefore, this can guarantee the quality of the software before delivery that result in the application will be the most efficiency. The test case will design base on Software Requirement Specification document and Software Design Document.

## 5.1.2 Scope

The Test Plan document covers recording and result of testing for each function in Diabetes web application to find the error or failure of the system. Also the test plan is made to measure the user requirements and system requirement. For the content of this document is consist of part of testing schedule, testing process, and data of testing to estimate an expect result of test before can get the actual result in the test record.

## 5.1.3 Definitions, Acronyms, and Abbreviation

### 5.1.3.1 Key Definitions

**Diabetes**  “Name of project”

**System** “Computer programs, procedure and associated documentation and data pertain to the operation of computer system” [IEEE90]

**Requirement** “The period of time in the software life cycle during which the requirement for a software product defines and document” [IEEE90]

**Test** An activity in which a system or component is executed under specified conditions, the results are observed or recorded, and an evaluation is made of some aspect of the system or component. [IEEE90]

**Unit testing** Testing of an individual hardware or software units or groups of related units. [IEEE90]

### 5.1.3.2 Key Acronyms and Abbreviation

**TC** Test case

**ID** Identify number

**UT** Unit test

**ST** System test

# Chapter Two | 5.2 Test Procedure

## 5.2.1 Test Strategy

Tester test Integration and Developer test unit level Step of Integration Test following:

1. Design test case   
2. Prepare testing data   
3. Determine expected result   
4. Perform testing   
5. Result of testing is to be record   
6. Result and test files will be place in the project library

## 5.2.2 Pass/Fail Criteria

Test record of this Software Testing Document will device to two parts

**1. Actual output** Actual output is a real output of the application from testing.

**2. Result of Testing** Result of Testing is a result of the testing process there are two kinds is:

**Pass**  Pass is a result that actual output has data as same as expect output. When the result of testing is pass tester will record data.

**Fail**  Fail is a result that data of actual output difference from expect output. When the result of testing is fail tester will comment error and send record to developer for edit or repair that error then send new application to tester for retested.

### 5.2.3 Test Environment

**Hardware**

**Dell inspiron 5459**

* Intel core i5
* RAM 4GB
* 64-bit Operating System
* HDD 1 TB

# Chapter Three | 5.3 Software Testing

## 5.3.1 Objective of Testing

This testing has objective for make all functions are consistency and reliability with a highest quality by check correctness of Diabetes web application. To make sure that the result of testing has record are correctly, every test have to follow test from this part of Test Plan document.

## 

## 5.3.2 Scope of Testing

Black Box technique (ST01-ST23)

|  |  |
| --- | --- |
| **Use Case ID** | **Use case name** |
| **ST01** | Login to the system. |
| **ST02** | Logout to the system. |
| **ST03** | Nurse can registration patient to Web Application. |
| **ST04** | Patient can view information of his on profile page. |
| **ST05** | Patient can update info on his profile page. |
| **ST06** | Patient can change password. |
| **ST07** | Admin can add user to system. |
| **ST08** | Admin can edit information of user. |
| **ST09** | Admin can delete user from system |
| **ST10** | Nutritionists can add food to the database. |
| **ST11** | Nutritionists can edit food on the database. |
| **ST12** | Nutritionists can delete food from the database |
| **ST13** | Nurse/Doctor can add food to the database. |
| **ST14** | Nurse/Doctor can edit food on the database. |
| **ST15** | Nurse/Doctor can delete food from the database |
| **ST16** | Patient can select the foods from database. |
| **ST17** | Patient can select the activity from database. |
| **ST18** | Patient can view body mass value that calculated. |
| **ST19** | Patient can record blood sugar. |
| **ST20** | Patient can view statistic graph of blood sugar. |
| **ST21** | Patient can get recommend about blood sugar from system. |
| **ST22** | Patient can select food. |
| **ST23** | Patient can submit and view about analyze result. |

**Table 1:** Black Box testing technique (ST01-ST23)

## 5.3.4 System Test

Black Box technique (ST01-ST23)

|  |  |
| --- | --- |
| **Use Case ID** | **Use case name** |
| **ST01** | Login to the system. |
| **ST02** | Logout to the system. |
| **ST03** | Nurse can registration patient to Web Application. |
| **ST04** | Patient can view information of his on profile page. |
| **ST05** | Patient can update info on his profile page. |
| **ST06** | Patient can change password. |
| **ST07** | Admin can add user to system. |
| **ST08** | Admin can edit information of user. |
| **ST09** | Admin can delete user from system |
| **ST10** | Nutritionists can add food to the database. |
| **ST11** | Nutritionists can edit food on the database. |
| **ST12** | Nutritionists can delete food from the database |
| **ST13** | Nurse/Doctor can add food to the database. |
| **ST14** | Nurse/Doctor can edit food on the database. |
| **ST15** | Nurse/Doctor can delete food from the database |
| **ST16** | Patient can select the activity from database. |
| **ST17** | Patient can select the foods from database. |
| **ST18** | Patient can view body mass value that calculated. |
| **ST19** | Patient can record blood sugar. |
| **ST20** | Patient can view statistic graph of blood sugar. |
| **ST21** | Patient can get recommend about blood sugar from system. |
| **ST22** | Patient can select food. |
| **ST23** | Patient can submit and view about analyze result. |

**Table 2:** Black Box testing technique (ST01-ST23)

### Feature#1 Authentication system.

**ST01:** Login to the system.

|  |  |
| --- | --- |
| **Description** | Test for **UC01**: Login to the system. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are Username and password |
| **Test Script** | 1. User go to login page. 2. User inputs information on login form. 3. User clicks “Login” button. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test login with all correct information. | Username = “atom”  Password = 123456” | The system redirect to index page. |
| 2 | Test login when input invalid email or password. | Username=”atom12” Password = “1234567” | The system display error message " Invalid login attempt.." |
| 3 | Test login with blank information. | Username = “”  Password = “” | The system display error message “The UserName field is required.”, “The Password field is required.” |

**Table 3**: Test Case of **ST02:** Login to the system.

**ST02:** Logout the system.

|  |  |
| --- | --- |
| **Description** | Test for **UC02**: Logout the system. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | - |
| **Test Script** | 1. User clicks “Logout” button. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for logout the system. | Click “Logout” button on navigation. | The system redirect to login page. |

**Table 4**: Test Case of **ST03:** Logout the system.

### 

### Feature#2: Account management.

### ST03: Register to the system.

|  |  |
| --- | --- |
| **Description** | Test for **UC03**: Nurse can registration patient to Web Application. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are username, email, password, re-password, first name, last name, height, weight, age, gender, address, diabetes type. |
| **Test Script** | 1. User go to register page.   1. User inputs information on register form. 2. User clicks “Submit” button. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test register with all correct information. | Username = “atom”  Email = “se552115011@vr.camt.info”  Password = “123456”  Re-password = “123456”  First Name= “Jirayu”  Last Name= “Chinpong”  Height = “176”  Weight= “59”  Age = “20”  Address = “139 m. 7 District. tom”  City= “Phayao”  Zip Code = “56000” | The system save the user information into database and redirect to progress page.  **Result:** C:\Users\DELL\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Capture.png  C:\Users\DELL\Desktop\1.PNG |
| 2 | Test register when input existed email. | Email = “[aaaaaa](mailto:a@a.com)” | The system display error message “The Email field is not a valid e-mail address.” |
| 3 | Test register when password and re-password is not match. | Password = “123456”  Re-password = “1234567” | The system display error message “The password and confirmation password do not match” |
| 4 | Test register with blank information. | Username = “”  Email = “”  Password = “”  Re-password = “”  First Name= “”  Last Name= “”  Height = “”  Weight= “”  Age = “”  Address = “” | The system display error message “field is required.” |

**Table 5**: Test Case of **ST01:** Register to the system.

**ST04:** Patient can view information of his on profile page.

|  |  |
| --- | --- |
| **Description** | Test for **UC04**: Patient can view information of his on profile page. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test view patient data. |
| **Test Script** | 1. Patient go to a profile page |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test click profile page link. | Click “username” button on layout page. | The system redirect to profile page and display pertinent information. |

**Table 6**: Test Case of **ST05:** Custom notification.

#### 

#### **ST05:** Patient can update info on his profile page.

|  |  |
| --- | --- |
| **Description** | Test for **UC05**: Patient can update info on his profile page. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are username, email, password, re-password, first name, last name, height, weight, age, gender, address, diabetes type. |
| **Test Script** | 1. Patient click username that show on layout page. 2. Patient click update info. 3. Patient input new info. 4. Patient click “submit”. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully edit personal information. | Email = “se552115011@vr.camt.info”  First Name= “Jirayuu”  Last Name= “Chinpongsuwan”  Height = “177”  Weight= “60”  Age = “20” | The system save the user information into database.  **Result:** C:\Users\DELL\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Capture.png |
| 2 | Test register with blank information. | Username = “”  Email = “”  Password = “”  Re-password = “” | The system display error message “field is required.” |
| 3 | Test register when input existed username. | Email = “a” | The system display error message “The Email field is not a valid e-mail address.” |

**Table 7**: Test Case of **ST05:** Patient can update info on his profile page.

#### 

#### **ST06:** Patient can change password.

|  |  |
| --- | --- |
| **Description** | Test for **UC06:** Patient can change password. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are current password, password |
| **Test Script** | 1. Patient go profile page 2. Patient click “change password” 3. Patient input new password. 4. Patient clicks “submit” button. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully create plan information. | Current password = “123456”  New password = “1234567”  Confirm password= “1234567” | The system get new password and save change in the database |
| 2 | Test change password when input invalid current password. | Current password = “12345” | The system display error message " current password invalid." |
| 3 | Test change password when input New password and Confirm password not the same. | New password = “1234567”  Confirm password= “2234567” | The system display error message “confirm password not match” |
| 4 | Test create plan with blank information. | Current password = “ ”  New password = “ ” | The system display error message “field is required.” |

**Table 8**: Test Case of **ST06:** Patient can change password.

#### **ST07:** Admin can add user to system.

|  |  |
| --- | --- |
| **Description** | Test for **UC07:** Admin can add nutritionists to system. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are username, password, first name, last name. |
| **Test Script** | 1. Admin go to manage page 2. Admin click nutritionists. 3. Admin click “create new”. 4. Admin input username, password, name 5. Admin click “submit” |

**Test Case: Edit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully edit plan information. | Username= “Nutritionists”  Password = “1234”  Firat Name=” wila“  Last Name = ”jikom“ | The system shall record the data on the database.  **Result:** |
| 2 | Test create plan with blank information. | Username “ ”  Password “ ”  Nmae “” | The system display error message “field is required.” |

**Table 9**: Test Case of **ST07:** Admin can add nutritionists to system.

**ST08:** Admin can edit information of nutritionists.

|  |  |
| --- | --- |
| **Description** | Test for **UC07:** Admin can edit information of nutritionists. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are username, password, first name, last name. |
| **Test Script** | 1. Admin go to manage page 2. Admin click nutritionists. 3. Admin click “edit”. 4. Admin input new username, password, name 5. Admin click “submit” |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully edit plan information. | Username= “Nutritionists2”  Password = “12345”  Firat Name=” wila“  Last Name = ”jikom2“ | The system shall record the data on the database.  **Result:** |
| 2 | Test create plan with blank information. | Username “ ”  Password “ ”  Nmae “” | The system display error message “field is required.” |

**Table 10**: Test Case of **ST08:** Admin can edit information of nutritionists.

**ST09:** Admin can delete nutritionists from system

|  |  |
| --- | --- |
| **Description** | Test for **UC07:** Admin can delete nutritionists from system |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are username, password, first name, last name. |
| **Test Script** | 1. Admin go to manage page 2. Admin click nutritionists. 3. Admin select nutritionists. 4. Admin click “Delete”. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully delete plan information. | Click “Delete” button. | The system shall delete the nutritionists from the database. |

**Table 11**: Test Case of **ST09:** Admin can delete nutritionists from system

**Feature#3: Nutrition management.**

#### **ST10:** Nutritionists can add food to the database.

|  |  |
| --- | --- |
| **Description** | Test for **UC08:** Nutritionists can add food to the database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are food name, glycemic index, calorie. |
| **Test Script** | 1 Nutritionists go to food management page  2 Nutritionists click “create new”.  3 Nutritionists input food\_name, glycemic index, calorie  4 Nutritionists click “submit” |

**Test Case: Edit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully edit plan information. | Food\_name= “banana”  Glycemic index = “100”  Calorie = “20” | The system shall record the data on the database.  **Result:** |
| 2 | Test create plan with blank information. | Food\_name= “”  Glycemic index = “”  Calorie = “” | The system display error message “field is required.” |

**Table 12**: Test Case of **ST10:** Nutritionists can add food to the database.

#### **ST11:** Nutritionists can edit food on the database.

|  |  |
| --- | --- |
| **Description** | Test for **UC08:** Nutritionists can edit food on the database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are food name, glycemic index, calorie. |
| **Test Script** | 1 Nutritionists go to food management page  3 Nutritionists click “edit”.  4 Nutritionists input new food\_name, glycemic index, calorie  5 Nutritionists click “submit” |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully edit plan information. | Food\_name= “banana2”  Glycemic index = “101”  Calorie = “22” | The system shall record the data on the database.  **Result:** |
| 2 | Test create plan with blank information. | Food\_name= “”  Glycemic index = “”  Calorie = “” | The system display error message “field is required.” |

**Table 13**: Test Case of **ST11:** Nutritionists can edit food on the database.

**ST12:** Nutritionists can delete food from the database.

|  |  |
| --- | --- |
| **Description** | Test for **UC08:** Nutritionists can delete food from the database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are food name, glycemic index, calorie. |
| **Test Script** | 1. Nutritionists go to food management page 2. Nutritionists select food. 3. Nutritionists click “Delete”. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully delete plan information. | Click “Delete” button. | The system shall delete the food from the database. |

**Table 14**: Test Case of **ST12:** Nutritionists can delete food from the database.

**Feature#4: Activity management.**

#### **ST13:** Nurse/Doctor can add activity to the database.

|  |  |
| --- | --- |
| **Description** | Test for **UC09:** Nurse/Doctor can add activity to the database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are symptom, recommend. |
| **Test Script** | 1 Nurse/Doctor go to activity management page  2 Nurse/Doctor click “create new”.  3 Nurse/Doctor input symptom, recommend.  4 Nurse/Doctor click “submit” |

**Test Case: Edit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully edit plan information. | Symptom = ”ปวดเข่า”  Recommend. =” ….” | The system shall record the data on the database.  **Result:** |
| 2 | Test create plan with blank information. | Symptom = ””  Recommend. =”” | The system display error message “field is required.” |

**Table 15**: Test Case of **ST13:** Nurse/Doctor can add activity to the database.

#### **ST14:** Nurse/Doctor can edit activity on the database.

|  |  |
| --- | --- |
| **Description** | Test for **UC09:** Nurse/Doctor can edit activity on the database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are symptom, recommend. |
| **Test Script** | 1 Nurse/Doctor go to activity management page  2 Nurse/Doctor click “edit”.  3 Nurse/Doctor input symptom, recommend.  4 Nurse/Doctor click “submit” |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully edit plan information. | Symptom = ”ปวดเข่า2”  Recommend. =” ….” | The system shall record the data on the database.  **Result:** |
| 2 | Test create plan with blank information. | Symptom = ””  Recommend. =”” | The system display error message “field is required.” |

**Table 16**: Test Case of **ST14:** Nurse/Doctor can edit activity on the database.

**ST15:** Nurse/Doctor can delete activity from the database.

|  |  |
| --- | --- |
| **Description** | Test for **UC09:** Nurse/Doctor can delete activity from the database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are The test data are symptom, recommend. |
| **Test Script** | 1. Nurse/Doctor go to activity management page 2. Nurse/Doctor select activity. 3. Nurse/Doctor clicks “Delete”. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully delete plan information. | Click “Delete” button. | The system shall delete the activity from the database. |

**Table 17**: Test Case of **ST15:** Nurse/Doctor can delete activity from the database.

**Feature#5: Activity plan and recommend system.**

#### **ST16:** Patient can select the activity from database.

|  |  |
| --- | --- |
| **Description** | Test for **UC10:** Patient can select the activity from database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are select food name. |
| **Test Script** | 1. Patients go to health plan page. 2. Patient select symptom. 3. Patient must click “select” 4. The system re view food name to patient. |

**Test Case: Edit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for select food name | Select form drop down list. | The system shall provide list of symptom to patient. |
| 2 | Test for click add | Select | The system shall provide suggestion about precautions exercise. |

**Table 18**: Test Case of **ST16:** Patient can select the activity from database.

**Feature#6: Nutrition plan system.**

#### **ST17:** Patient can select the foods from database.

|  |  |
| --- | --- |
| **Description** | Test for **UC12:** Patient can select the foods from database. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are select food name. |
| **Test Script** | 1. Patients go to health plan page. 2. Patient select foods name. 3. Patient must click “add” 4. The system re view food name to patient. |

**Test Case: Edit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for select food name | Select form drop down list. | The system shall provide list of food name to patient. |
| 2 | Test for click add | Add | The system shall review name of food to patient. |

**Table 19**: Test Case of **ST17:** Patient can select the foods from database.

**Feature#7: Health monitors system.**

**ST18:** Patient can view body mass value that calculated.

|  |  |
| --- | --- |
| **Description** | Test for **UC16**: Patient can view body mass value that calculated. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test view BMI. |
| **Test Script** | 1. Patient go to a health plan page |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test click health plan page link. | Click “health plan” link button. | The system redirect to health plan page and display BMI. |

**Table 20**: Test Case of **ST18:** Patient can view body mass value that calculated.

#### **ST19:** Patient can record blood sugar.

|  |  |
| --- | --- |
| **Description** | Test for **UC15:** Patient can record blood sugar. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are blood sugar |
| **Test Script** | 1. Patient go health page 2. Patient input “blood sugar” 3. Patient clicks “add” button. |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for successfully create plan information. | Blood sugar = “100” | The system record value of blood sugar to the database and dis play on graph. |
| 3 | Test blood sugar when input minus value. | Blood sugar= “-100” | The system display error message “value are minus” |

**Table 21**: Test Case of **ST19:** Patient can record blood sugar.

#### **ST20:** Patient can view statistic graph of blood sugar.

|  |  |
| --- | --- |
| **Description** | Test for **UC17:** Patient can view statistic graph of blood sugar. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are blood sugar |
| **Test Script** | 1. Patient go health page |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for click “health plan” link button | Click “health plan” link button. | The system shall redirect to health plan page and dis play graph to user |

**Table 23**: Test Case of **ST20:** Patient can view statistic graph of blood sugar.

#### **ST21:** Patient can get interpretation about blood sugar from system.

|  |  |
| --- | --- |
| **Description** | Test for **UC18:** Patient can get interpretation about blood sugar from system. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are blood sugar |
| **Test Script** | 1. Patient go health page |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for click “health plan” link button | Click “health plan” link button. | The system shall redirect to health plan page and dis play recommend about blood sugar to user. |

**Table 24**: Test Case of **ST21:** Patient can get interpretation about blood sugar from system.

**Feature#8: Behavior monitors system**.

#### **ST22:** Patient can select food.

|  |  |
| --- | --- |
| **Description** | Test for **UC19:** Patient can select food. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test data are select food name. |
| **Test Script** | 1. Patients go to behavior page. 2. Patient select foods name. 3. Patient must click “select” 4. The system review food name to patient. |

**Test Case: Edit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for select food name | Select form drop down list. | The system shall provide list of food name to patient. |
| 2 | Test for click add | Select | The system shall review name of food to patient. |

**Table 25**: Test Case of **ST22:** Patient can select food.

#### **ST23:** Patient can submit and view about analyze result.

|  |  |
| --- | --- |
| **Description** | Test for **UC21:** Patient can submit and view about analyze result. |
| **Precondition** | Test data must be prepared. |
| **Prerequisites or Test input** | The test submit data |
| **Test Script** | 1. Patients go to behavior page. 2. Patient select data. 3. Patient must click submit. |

**Test Case: Edit**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Description** | **Input** | **Expect Output** |
| 1 | Test for click “submit” | Click “submit” | The system shall provide analyze result to patient. |

**Table 26**: Test Case of **ST23:** Patient can submit and view about analyze result.