Test Record

Diabetes Care

By

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\*PS: Dr. Prompong Sugunnasil

\*JC: Mr. Jirayu Chinpongsuwan

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# Chapter One | Introduction

# 1.1 Purpose

# The purpose of Test Record document is for recording the actual result of each test case that reference from Test Plan. The detail in Test Record is related of the result that claims on Test Plan compare with the actual result when the test finish. The result is has Pass and Fail that are record on this document. This Test Record includes the test result for Progress I only.

# 1.2 Responsibility

|  |  |
| --- | --- |
| Item | Responsibility |
| Record unit test of “DiabetesCare” web application | Jirayu chinpongsuwan |
| Record System test of “DiabetesCare” web application | Jirayu chinpongsuwan |

# Chapter Two | Software Test Record

White Box technique (UT01-UT23)

|  |  |
| --- | --- |
| **Unit test ID** | **Method name** |
| **UT01** | AccountController: AddTodayFood() |
| **UT02** | AccountController: addTodayfood() |
| **UT03** | AccountController: RemoveTodayFood() |
| **UT04** | AccountController: HealthPlan() |
| **UT05** | AccountController: AddGlycemic() |
| **UT06** | AccountController: addUserGlycemic() |
| **UT07** | AccountController: AddFood() |
| **UT08** | AccountController: addUSerFood() |
| **UT09** | AccountController: DeleteFood() |
| **UT10** | AccountController: AddMedicine() |
| **UT11** | AccountController: addMedicineData() |
| **UT12** | AccountController: DeleteMedicine() |
| **UT13** | AccountController: EditUserProfile() |
| **UT14** | AccountController: Register() |
| **UT15** | AccountController: Login() |
| **UT16** | AccountController:LogOff() |
| **UT17** | FoodController:Create() |
| **UT18** | FoodController:Edit() |
| **UT19** | FoodController:Delete() |
| **UT20** | ExercisesController:Create() |
| **UT21** | ExercisesController: Edit() |
| **UT22** | ExercisesController:Delete() |
| **UT23** | ManageController ChangePassword() |

**Table 1:** White Box testing technique (UT01-UT23)

Black Box technique (ST01-ST26)

|  |  |
| --- | --- |
| **System test 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 and the system display suggestion. |
| **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 interpretation about blood sugar from system. |
| **ST22** | Patient can delete food from health plan. |
| **ST23** | Patient can view the average of glycemic index and calorie of food. |
| **ST24** | Patient can select food. |
| **ST25** | Patient can check list of medicine. |
| **ST26** | Patient can submit and view about analyze result. |

**Table 2:** Black Box testing technique (ST01-ST26)

## 2.1 Unit Test Record

White Box technique (UT01-UT23)

|  |  |
| --- | --- |
| **Unit test ID** | **Method name** |
| **UT01** | AccountController: AddTodayFood() |
| **UT02** | AccountController: addTodayfood() |
| **UT03** | AccountController: RemoveTodayFood() |
| **UT04** | AccountController: HealthPlan() |
| **UT05** | AccountController: AddGlycemic() |
| **UT06** | AccountController: addUserGlycemic() |
| **UT07** | AccountController: AddFood() |
| **UT08** | AccountController: addUSerFood() |
| **UT09** | AccountController: DeleteFood() |
| **UT10** | AccountController: AddMedicine() |
| **UT11** | AccountController: addMedicineData() |
| **UT12** | AccountController: DeleteMedicine() |
| **UT13** | AccountController: EditUserProfile() |
| **UT14** | AccountController: Register() |
| **UT15** | AccountController: Login() |
| **UT16** | AccountController:LogOff() |
| **UT17** | FoodController:Create() |
| **UT18** | FoodController:Edit() |
| **UT19** | FoodController:Delete() |
| **UT20** | ExercisesController:Create() |
| **UT21** | ExercisesController: Edit() |
| **UT22** | ExercisesController:Delete() |
| **UT23** | ManageController ChangePassword() |

**Table 3:** White Box testing technique (UT01-UT23)

**2.1.1Class: AccountController**

#### **UT01:** AddTodayFood()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** AddTodayFood()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to Account | Redirect to Account | Pass |

**Table 4:** Method AddTodayFood()

#### **UT02:** addTodayfood ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** addValueTodayfood()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | TodayFood {User Id = 1,  Food id = 1} | TodayFood {User Id = 1,  Food id = 1} | Pass |

**Table 5:** Method addTodayfood ()

**Test Case:** addNullValueTodayfood()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |

**Table 6:** Method addTodayfood ()

#### **UT03:** RemoveTodayFood()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** RemoveTodayFoodTest()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to Account | Redirect to Account | Pass |

**Table 7:** Method RemoveTodayFood()

#### **UT04:** HealthPlan()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** HealthPlanTest()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | 10000 | 10000 | Pass |
| 2 | 77.9 | 77.9 | Pass |
| 3 | 671.7 | 671.7 | Pass |
| 4 | 400 | 400 | Pass |
| 5 | 400 | 400 | Pass |

**Table 8:** Method HealthPlan()

#### **UT05:** AddGlycemic ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** AddGlycemic**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to HealthPlan | Redirect to HealthPlan | Pass |

**Table 9:** Method AddGlycemic ()

#### **UT06:** addUserGlycemic ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** addValueAddGlycemic**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | UserGlycemic{User id =1,  Value =100} | UserGlycemic{User id =1,  Value =100} | Pass |

**Table 10:** Method addUserGlycemic ()

**Test Case:** addNullValueAddGlycemic**()**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** | |
| 1 | null | null | | Pass |

**Table 11:** Method addUserGlycemic ()

#### **UT07:** AddFood ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** AddFood()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to HealthPlan | Redirect to HealthPlan | Pass |

**Table 12:** Method AddFood ()

#### **UT08:** addUSerFood ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** addValueAddFood()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | UserFood{User id = 1,  Food Id =1} | UserFood{User id = 1,  Food Id =1} | Pass |

**Table 13:** Method addUSerFood ()

**Test Case:** addNullValueAddFood()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |

**Table 14:** Method addUSerFood ()

**UT09:** DeleteFood ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** DeleteFoodTest()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to HealthPlan | Redirect to HealthPlan | Pass |

**Table 15:** Method DeleteFood ()

#### **UT10:** AddMedicine ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** AddMedicine()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to DisplayProfile | Redirect to DisplayProfile | Pass |

**Table 16:** Method AddMedicine ()

#### **UT11:** addMedicineData ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** addValueAddMedicine()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Medicine {User id =1,  MedicineName = “para”} | Medicine {User id =1,  MedicineName = “para”} | Pass |

**Table 17:** Method addMedicineData ()

**Test Case:** addNullValueAddMedicine()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |
| 2 | null | null | Pass |

**Table 18:** Method addMedicineData ()

**UT12:** DeleteMedicine ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** DeleteMedicineTest()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to DisplayProfile | Redirect to DisplayProfile | Pass |

**Table 19:** Method DeleteMedicin ()

#### **UT13:** EditUserProfile ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** EditUserProfile Test()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to Index | Redirect to Index | Pass |

**Table 20:** Method EditUserProfile ()

#### **UT14:** Register ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** RegisterTestValid()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Register {Username = “atom”  Email = “at@om.com”  FirstName = “Jira”  LastName = “yu”  Gender= ”male”  Age = 20  Height = 170  Weight = 60  Address = “139 m.7 ”  City = “Phayao”  Zipcode = 56000} | Register {Username = “atom”  Email = “at@om.com”  FirstName = “Jira”  LastName = “yu”  Gender= ”male”  Age = 20  Height = 170  Weight = 60  Address = “139 m.7 ”  City = “Phayao”  Zipcode = 56000} | Pass |

**Table 21:** Method Register ()

**Test Case:** RegisterTestInValid()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |
| 2 | null | null | Pass |

**Table 22:** Method Register ()

#### **UT15:** Login ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** LoginValid()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Login {Username = “Admin@Admin.com”  Password = “Password#1”} | Login {Username = “Admin@Admin.com”  Password = “Password#1”} | Pass |

**Table 23:** Method Login ()

**Test Case:** LoginInValid()

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |

**Table 24:** Method Login ()

#### **UT16:** LogOff ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** LogOffTest**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Redirect to Home/Index | Redirect to Home/Index | Pass |

**Table 25:** Method LogOff ()2.1.2 Class: FoodController

**2.1.2Class: FoodController**

#### **UT17:** Create ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** CreateValid**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Create {id\_food =1,  food\_name = “banana”,  food \_calories = 100,  food \_Glucemic =100} | Create {id\_food =1,  food\_name = “banana”,  food \_calories = 100,  food \_Glucemic =100} | Pass |

**Table 26:** Method Create ()

**Test Case:** CreateInValid**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |
| 2 | null | null | Pass |

**Table 27:** Method Create ()

#### **UT18:** Edit ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** EditfoodValid (**)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Edit{id\_food =1,  food\_name = “banana2”,  food \_calories = 101,  food \_Glucemic =101} | Edit{id\_food =1,  food\_name = “banana2”,  food \_calories = 101,  food \_Glucemic =101} | Pass |

**Table 28:** Method Edit ()

**Test Case:** EditfoodInValid (**)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |

**Table 29:** Method Edit ()

#### **UT19:** DeleteConfirmed ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** DeleteTest**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Object of class ActionResult | Object of class ActionResult | Pass |
| 2 | Redirect to Index | Redirect to Index | Pass |

**Table 30:** Method DeleteConfirmed ()2.1.3 Class: ExerciseController

**2.1.3 Class: ExerciseController**

#### **UT20:** Create ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** CreateExercisesValid**()**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** | |
| 1 | Create {id =1  Symptom = “knee pain” suggestion= “should not take him”  ProperExercise, = “exercise”  ExerciseInappropriate = “high impact events”  StepExercise = “1. Warm 2. Exercise”} | Create {id =1  Symptom = “knee pain” suggestion= “should not take him”  ProperExercise, = “exercise”  ExerciseInappropriate = “high impact events”  StepExercise = “1. Warm 2. Exercise”} | | Pass |

**Table 31:** Method Create ()

**Test Case:** CreateExercisesInValid**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |
| 2 | null | null | Pass |

**Table 32:** Method Create ()

#### **UT21:** Edit ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** EditExercisesValid**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Edit {id = 1, symptom = “knee pain”  suggestion= “should not take him”  ProperExercise, = “exercise”  ExerciseInappropriate = “high impact events”  StepExercise = “1. Warm 2. Exercise”} | Edit {id = 1, symptom = “knee pain”  suggestion= “should not take him”  ProperExercise, = “exercise”  ExerciseInappropriate = “high impact events”  StepExercise = “1. Warm 2. Exercise”} | Pass |

**Table 33:** Method Edit ()

**Test Case:** EditExercisesInValid**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |

**Table 34:** Method Edit ()

#### **UT22:** DeleteConfirmed ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** DeleteExercisesTest**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Redirect to Index | Redirect to Index | Pass |

**Table 35:** Method DeleteConfirmed ()2.1.4 Class: ManageController

**2.1.3Class: ManageController**

#### **UT23:** ChangePassword ()

**Test date:** 28 Feb, 2016

**Test by:** Jirayu chinpongsuwan

**Test Case:** ChangePasswordTest**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | Redirect to Index | Redirect to Index | Pass |
| 2 | Object of class ActionResult | Object of class ActionResult | Pass |

**Table 36:** Method Edit ()

**Test Case:** ChangePasswordValid**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | New password = “testpassword”  Old password = “testpass”  Confirm password = “testpassword” | New password = “testpassword”  Old password = “testpass”  Confirm password = “testpassword” | Pass |

**Table 37:** Method Edit ()

**Test Case:** ChangePasswordInvalid**()**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Expected Output** | **Actual Output** | **Status** |
| 1 | null | null | Pass |

**Table 38:** Method Edit ()

**2.2 System Test Record**

Black Box technique (ST01-ST26)

|  |  |
| --- | --- |
| **System test 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 and the system display suggestion. |
| **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 interpretation about blood sugar from system. |
| **ST22** | Patient can delete food from health plan. |
| **ST23** | Patient can view the average of glycemic index and calorie of food. |
| **ST24** | Patient can select food. |
| **ST25** | Patient can check list of medicine. |
| **ST26** | Patient can submit and view about analyze result. |

**Table 39:** Black Box testing technique (ST01-ST26)

### 2.2.1 Feature#1 Authentication system.

**ST01:** Login to the system.

|  |  |
| --- | --- |
| **Description** | Test for **UC01**: Login to the system. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system redirect to index page. | The system redirect to index page. | Pass |
| 2 | The system display error message “Invalid login attempt." | The system display error message “Invalid login attempt."  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 3 | The system display error message “The UserName field is required.”, “The Password field is required.” | The system display error message “The UserName field is required.”, “The Password field is required.”  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 40**: Test Case of **ST01:** Login to the system.

**ST02:** Logout the system.

|  |  |
| --- | --- |
| **Description** | Test for **UC02**: Logout the system. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system redirect to index page. | The system redirect to index page. | Pass |

**Table 41**: Test Case of **ST02:** Logout the system..

### 2.2.2 Feature#2: Account management.

### ST03: Register to the system.

|  |  |
| --- | --- |
| **Description** | Test for **UC03**: Nurse can registration patient to Web Application. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system saves the user information into database. | The system saves the user information into database.  C:\Users\DELL\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Capture.png  C:\Users\DELL\Desktop\1.PNG | Pass |
| 2 | The system display error message “The Email field is not a valid e-mail address.” | The system display error message “The Email field is not a valid e-mail address.”  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 3 | The system display error message “The password and confirmation password do not match” | The system display error message “The password and confirmation password do not match”  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 4 | The system display error message “The UserName field is required.”  “The Password field is required.”  “The Firstname field is required.”  “The Lastname field is required.”  “The gender field is required.”  “The age field is required.”  “The email field is required.”  “The height field is required.”  “The weight field is required.”  “The address field is required.”  “The city field is required.”  “The zipCode field is required.” | The system display error message “field is required.”  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 42**: Test Case of **ST03**: Nurse can registration patient to Web Application.

#### 

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

|  |  |
| --- | --- |
| **Description** | Test for **UC05**: Patient can view information of his on profile page. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall redirect to “Manage” page and display pertinent information. | The system shall redirect to “Manage” page and display pertinent information.  C:\Users\DELL\Desktop\UI UserProfile.PNG | Pass |

**Table 43**: Test Case of **ST04:** Patient can view information of his on profile page.

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

|  |  |
| --- | --- |
| **Description** | Test for **UC06**: Patient can update info on his profile page. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system saves the user information into database. | The system saves the user information into database.  **Result:** C:\Users\DELL\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Capture.png | Pass |
| 2 | The system display error message  “The age field is required.”  “The Height field is required.”  “The Weight field is required.” | The system display error message “field is required.”  C:\Users\DELL\Desktop\Capture.PNG | pass |

**Table 44**: Test Case of **ST05:** Patient can update info on his profile page.

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

|  |  |
| --- | --- |
| **Description** | Test for **UC07:** Patient can change password. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system get new password and save change in the database | The system get new password and save change in the database | Pass |
| 2 | The system display error message " incurrent password" | The system display error message " incurrent password"  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 3 | The system display error message “The new password and confirm password not match” | The system display error message “The new password and confirm password not match” C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 4 | The system display error message “field is required.” | The system display error message “field is required.”  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 45**: Test Case of **ST06:** Patient can change password.

**ST07:** Admin can add doctor, nurse, and nutritionists to system.

|  |  |
| --- | --- |
| **Description** | Test for **UC08:** Admin can add doctor, nurse, and nutritionists to system. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall record the data on the database. | The system shall record the data on the database.  **Result:**  C:\Users\DELL\Desktop\Capture.PNG  C:\Users\DELL\Desktop\c1.PNG | Pass |
| 2 | The system display error message “field is required.” | The system display error message “field is required.” | Pass |
| 3 | The system shall display error message “Failed to create the user.” | The system shall display error message “Failed to create the user.” | Pass |
| 4 | The system shall display error message “Email wrong format”. | The system shall display error message “Email wrong format”. | Pass |

**Table 46**: Test Case of **ST07:** Admin can add doctor, nurse, and nutritionists to system.

#### **ST08:** Admin can edit information of user.

|  |  |
| --- | --- |
| **Description** | Test for **UC08:** Admin can edit information of user. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall record the data on the database.  **Result:**  Username= “Nutritionists2”  Role= “doctor” | The system shall record the data on the database.  **Result:**  Username= “Nutritionists2”  Role= “doctor” | Pass |
| 2 | The system display error message “field is required.” | The system display error message “field is required.” | Pass |

**Table 47**: Test Case of **ST08:** Admin can edit information of user.

#### 

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

|  |  |
| --- | --- |
| **Description** | Test for **UC08:** Admin can delete account from system |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall delete the nutritionists from the database.  C:\Users\DELL\Desktop\Capture.PNG  **After delete**  **C:\Users\DELL\Desktop\Capture.PNG** | The system shall delete the nutritionists from the database.  C:\Users\DELL\Desktop\Capture.PNG  **After delete**  **C:\Users\DELL\Desktop\Capture.PNG** | Pass |

**Table 48**: Test Case of **ST09:** Admin can delete account from system

**2.2.3 Feature#3: Nutrition management.**

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

|  |  |
| --- | --- |
| **Description** | Test for **UC09:** Nutritionists can add food to the database. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall record the data on the database. | The system shall record the data on the database.  **Result:**  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 2 | The system display error message “The food\_Calories field is required.”, “The food\_GlycemicIndex field is required.” | The system display error message “The food\_Calories field is required.”, “The food\_GlycemicIndex field is required.”  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 3 | The system shall display error message “The field food\_Calories must be a number.” And “The field food\_GlycemicIndex must be a number.” | The system shall display error message “The field food\_Calories must be a number.” And “The field food\_GlycemicIndex must be a number.”  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 49**: Test Case of **ST10:** Nutritionists can add food to the database.

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

|  |  |
| --- | --- |
| **Description** | Test for **UC09:** Nutritionists can edit food on the database. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall record the data on the database. | The system shall record the data on the database.  **Result:** **before edit**  C:\Users\DELL\Desktop\Capture.PNG  **After**  **C:\Users\DELL\Desktop\Capture.PNG** | Pass |
| 2 | The system display error message “field is required.” | The system display error message “The food\_Calories field is required.”, “The food\_GlycemicIndex field is required.”  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 3 | The system shall display error message “The field food\_Calories must be a number.” And “The field food\_GlycemicIndex must be a number.” | The system shall display error message “The field food\_Calories must be a number.” And “The field food\_GlycemicIndex must be a number.”  C:\Users\DELL\Desktop\Capture.PNG |  |

**Table 50**: Test Case of **ST11:** Nutritionists can edit food on the database.

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

|  |  |
| --- | --- |
| **Description** | Test for **UC09:** Nutritionists can delete food from the database. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall delete the food from the database. | The system shall delete the food from the database.  C:\Users\DELL\Desktop\Capture.PNG  **When delete**  **C:\Users\DELL\Desktop\Capture.PNG** | Pass |

**Table 51**: Test Case of **ST12:** Nutritionists can delete food from the database.

**2.2.4 Feature#4: Activity management.**

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

|  |  |
| --- | --- |
| **Description** | Test for **UC10:** Nurse/Doctor can add activity to the database. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall record the data on the database. | The system shall record the data on the database.  **Result:**  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 52**: Test Case of **ST13:** Nurse/Doctor can add activity to the database.

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

|  |  |
| --- | --- |
| **Description** | Test for **UC10:** Nurse/Doctor can edit activity on the database. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall record the data on the database. | The system shall record the data on the database.  **Result:** **Before edit**  C:\Users\DELL\Desktop\Capture.PNG  **After**  **C:\Users\DELL\Desktop\Capture.PNG** | Pass |

**Table 53**: Test Case of **ST14:** Nurse/Doctor can edit activity on the database.

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

|  |  |
| --- | --- |
| **Description** | Test for **UC10:** Nurse/Doctor can delete activity from the database. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall delete the activity from the database. | The system shall delete the activity from the database.  C:\Users\DELL\Desktop\Capture.PNG  **When delete.**  **C:\Users\DELL\Desktop\Capture.PNG** | Pass |

**Table 54**: Test Case of **ST15:** Nurse/Doctor can delete activity from the database.

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

#### **ST16:** Patient can select the exercises from database and the system display suggestion.

|  |  |
| --- | --- |
| **Description** | Test for **UC11, UC12:** Patient can select the activity from database and the system display suggestion. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall provide list of symptom to patient. | The system shall provide list of symptom to patient.  C:\Users\DELL\Desktop\Capture.PNG  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 2 | The system shall provide suggestion about precautions exercise. | The system shall provide suggestion about precautions exercise.  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 55**: Test Case of **ST16:** Patient can select the activity from database and the system display suggestion.

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

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

|  |  |
| --- | --- |
| **Description** | Test for **UC13:** Patient can select the foods from database. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall provide list of food name to patient. | The system shall provide list of food name to patient.  C:\Users\DELL\Desktop\Capture.PNG  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 2 | The system shall display names of food to patient. | The system shall display names of food to patient.  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 56**: Test Case of **ST17:** Patient can select the foods from database.

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

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

|  |  |
| --- | --- |
| **Description** | Test for **UC17**: Patient can view body mass value that calculated. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system redirect to health plan page and display BMI. | The system redirect to health plan page and display BMI.  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 57**: Test Case of **ST18:** Patient can view body mass value that calculated.

#### 

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

|  |  |
| --- | --- |
| **Description** | Test for **UC16:** Patient can record blood sugar. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system record value of blood sugar to the database | The system record value of blood sugar to the database  C:\Users\DELL\Desktop\Capture.PNG | Pass |
| 2 | The system display error message “value must not be minus” | The system display error message “value must be not minus” | Pass |

**Table 58**: Test Case of **ST19:** Patient can record blood sugar.

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

|  |  |
| --- | --- |
| **Description** | Test for **UC18:** Patient can view statistic graph of blood sugar. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall redirect to health plan page and dis play graph to user | The system shall redirect to health plan page and dis play graph to user  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 59**: 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 **UC19:** Patient can get interpretation about blood sugar from system. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall redirect to health plan page. And display interpretation about blood sugar to the patient. | The system shall redirect to health plan page. And display interpretation about blood sugar to the patient. | Pass |

**Table 60**: Test Case of **ST21:** Patient can get interpretation about blood sugar from system.

#### **ST22:** Patient can delete food from health plan.

|  |  |
| --- | --- |
| **Description** | Test for **UC15:** Patient can delete food from health plan. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall delete food from table UserFood on the database | The system shall delete food from table UserFood on the database | Pass |

**Table 61**: Test Case of **ST22:** Patient can delete food from health plan

#### **ST23:** Patient can view the average of glycemic index and calorie of food.

|  |  |
| --- | --- |
| **Description** | Test for **UC14:** Patient can delete food from health plan. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall display the average value of food calorie and food glycemic index. | The system shall display the average value of food calorie and food glycemic index.  C:\Users\DELL\Desktop\14.PNG | Pass |

**Table 62**: Test Case of **ST23:** Patient can view the average of glycemic index and calorie of food.

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

#### **ST24:** Patient can select food.

|  |  |
| --- | --- |
| **Description** | Test for **UC20:** Patient can select food. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall provide list of food name to patient. | The system shall provide list of food name to patient.  C:\Users\DELL\Desktop\eatto.PNG | Pass |
| 2 | The system shall display names of food to patient. | The system shall display names of food to patient.  C:\Users\DELL\Desktop\eat.PNG | Pass |

**Table 63**: Test Case of **ST24:** Patient can select food.

#### **ST25:** Patient can check list of medicine.

|  |  |
| --- | --- |
| **Description** | Test for **UC21:** Patient can check list of medicine. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall display list of medicine and check button to the patient. | The system shall display list of medicine and check button to the patient.  C:\Users\DELL\Desktop\21.PNG | Pass |

**Table 64**: Test Case of **ST25:** Patient can check list of medicine.

#### **ST26:** Patient can submit and view about analyze result.

|  |  |
| --- | --- |
| **Description** | Test for **UC21:** Patient can submit and view about analyze result. |
| **Test date** | July 08,2016 |
| **Test by** | Jirayu chinpongsuwan |

**Test Case:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Case** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| 1 | The system shall provide analyze result to patient. | The system shall provide analyze result to patient.  C:\Users\DELL\Desktop\Capture.PNG | Pass |

**Table 65**: Test Case of **ST26:** Patient can submit and view about analyze result.