**Feature#1: Authentication system.**

**URS-01: Public user can register on a Web Application.**

**Requirement**

SRS-01: The system provides the register UI which includes (Username, Password, Confirm Password, E-mail, First Name, Last Name, Gender, Age, Address , Diabetes Type, Height, Weight, Start Treatment )

SRS-02: The system shall provide button “Submit”.

SRS-03: The system shall provide error message the Email is already taken.

SRS-04: The system shall provide error message the Username is already taken.

SRS-05: The system shall provide error message the “Username field” is required. When user does not input Username.

SRS-06: The system shall provide UI to user input again.

SRS-07: The system shall provide error message the “Password field” is required. When user does not input Password.

SRS-06: The system shall provide UI to user input again.

SRS-08: The system shall provide error message the “First Name field” is required. When user does not input First Name.

SRS-06: The system shall provide UI to user input again.

SRS-09: The system shall provide error message the “Last Name field” is required. When user does not input Last Name.

SRS-06: The system shall provide UI to user input again.

SRS-10: The system shall provide error message the “Gender field” is required. When user does not input Gender.

SRS-06: The system shall provide UI to user input again.

SRS-11: The system shall provide error message the “Age field” is required. When user does not input Age.

SRS-06: The system shall provide UI to user input again.

SRS-12: The system shall provide error message the “Address field” is required. When user does not input Address.

SRS-06: The system shall provide UI to user input again.

SRS-13: The system shall provide error message the “Diabetes Type field” is required. When user does not input Diabetes Type.

SRS-06: The system shall provide UI to user input again.

SRS-14: The system shall provide error message the “Height field” is required. When user does not input Height.

SRS-06: The system shall provide UI to user input again.

SRS-15: The system shall provide error message the “Weight field” is required. When user does not input Weight.

SRS-06: The system shall provide UI to user input again.

SRS-16: The system shall provide error message the “Start Treatment field” is required. When user does not input Start Treatment.

SRS-06: The system shall provide UI to user input again.

SRS-17: The system shall save user information to database. When user input data success.

SRS-18: The system shall redirect to Index.

**URS-02: Member can log in on a Web Application.**

**Requirement**

SRS-19: The system shall provide the login UI to receive username and password.

SRS-20: The system shall provide check box “remember me”. When user need to system remember username.

SRS-21: The system shall validate username and password from database.

SRS-22: The system shall provide error message “Invalid login attempt”. When user input wrong Username and Password

SRS-05: The system shall provide error message the “Please input Username”. When user does not input Username.

SRS-06: The system shall provide error message the “Please input Password”. When user does not input Password.

SRS-02: The system shall provide button “Submit”.

SRS-18: The system shall redirect to Index.

**URS-03: Member can log out from system.**

**Requirement**

SRS-23: The system shall provide button “Log out” for log out from system

SRS-24: The system shall request user click “Log out”.

SRS-18: The system shall redirect to Index.

**Feature#2: Account management.**

**URS-04: Member can view information of his on profile page.**

**Requirement**

SRS-25: The system shall provide link that redirect to profile page. After user login.

SRS-26: The system shall redirect to profile page.

SRS-27: The system shall display the information of user.

**URS-05: Member can edit information on profile page.**

**Requirement**

SRS-28: The system shall provide button link “Edit” to edit info.

SRS-29: The system shall redirect to edit info page.

SRS-30: The system shall provide UI form to edit.

SRS-31: The system shall provide submit button to save change in database.

**URS-06: Member can change password for login.**

**Requirement**

SRS-32: The system shall provide link to change password.

SRS-33: The system shall provide UI to user input current password, new password, confirm password.

SRS-34: The system shall provide error massage “current password is field”. When the current password not correct.

SRS-35: The system shall provide error massage “new password is field”. When new password not same confirm password.

SRS-02: The system shall provide button “Submit”.

**Feature#3: Nutritionists management (Back end system).**

**URS-7: Nutritionists can log in to the Nutritionists system.**

**Requirement**

SRS-19: The system shall provide the login UI to receive username and password.

SRS-21: The system shall validate username and password from database.

SRS-22: The system shall provide error message Invalid login attempt.

SRS-05: The system shall provide error message the “Please input Username”. When user does not input Username.

SRS-06: The system shall provide error message the “Please input Password”. When user does not input Password.

SRS-36: The system shall redirect to Nutritionists management page.

**URS-8: Nutritionists can log out from the Nutritionists system.**

**Requirement**

SRS-23: The system shall provide button “Log out” for log out from system

SRS-24: The system shall request user click “Log out”.

SRS-18: The system shall redirect to Index.

**URS-9: Nutritionists can add food list to system.**

**Requirement**

SRS-37: The system shall provide UI to add food include (name, calorie, glycemic index)

SRS-38: The system shall provide submit button to save food info

SRS-39: The system shall redirect to food index. When finish process.

**URS-10: Nutritionists can view detail of food.**

**Requirement**

SRS-40: The system shall provide button redirect to detail. After Nutritionists redirect to food management.

SRS-41: The system shall redirect to detail page.

**URS-11: Nutritionists can edit the information of food.**

**Requirement**

SRS-42: The system shall provide button redirect to edit. After Nutritionists redirect to food management.

SRS-43: The system shall provide UI to edit include (name, calorie, glycemic index).

SRS-44: The system shall provide submit button.

SRS-45: The system shall save change. When finish the process.

**URS-12: Nutritionists can delete food from list.**

**Requirement**

SRS-46: The system shall provide button to delete. After Nutritionists redirect to food management.

SRS-45: The system shall save change. When finish the process.

**URS-13: Nutritionists can add activity list to system.**

**Requirement**

SRS-47: The system shall provide UI to add activity include (name, calorie)

SRS-48: The system shall provide submit button to save activity info.

SRS-49: The system shall redirect to activity index. When finish process.

**URS-14: Nutritionists can view detail of activity.**

**Requirement**

SRS-40: The system shall provide button redirect to detail. After Nutritionists redirect to activity management.

SRS-41: The system shall redirect to detail page.

**URS-15: Nutritionists can edit the information of activity.**

**Requirement**

SRS-42: The system shall provide button redirect to edit. After Nutritionists redirect to activity management.

SRS-50: The system shall provide UI to edit include (name, calorie).

SRS-44: The system shall provide submit button.

SRS-45: The system shall save change. When finish the process.

**URS-16: Nutritionists can delete activity from list.**

**Requirement**

SRS-46: The system shall provide button to delete. After Nutritionists redirect to activity management.

SRS-45: The system shall save change. When finish the process.

**Feature#4: Admin management nutritionists**

**URS-17: Admin can add nutritionists to system.**

**Requirement**

SRS-51: The system shall provide UI to create new Nutritionists include (name, username, password)

SRS-52: The system shall provide submit button to save Nutritionists info

SRS-53: The system shall redirect to Nutritionists index.

**URS-18: Admin can view information of nutritionists.**

**Requirement**

SRS-40: The system shall provide button redirect to detail. After Admin redirect to nutritionists management.

SRS-41: The system shall redirect to detail page.

**URS-19: Admin can edit the information of nutritionists.**

**Requirement**

SRS-42: The system shall provide button redirect to edit.After Admin redirect to nutritionists management.

SRS-54: The system shall provide UI to edit include (name, username, password).

SRS-44: The system shall provide submit button.

SRS-45: The system shall save change. When finish the process.

**URS-20: Admin can delete nutritionists from list.**

**Requirement**

SRS-46: The system shall provide button to delete. After Admin redirect to nutritionists management.

SRS-45: The system shall save change. When finish the process.

**Feature#5: Health plan system.**

**URS-21: Member can add food to record in health plan.**

**Requirement**

SRS-55: The system shall provide list of foods to user.

SRS-56: The system shall request user select food.

SRS-57: The system shall provide “Add” button.

SRS-58: The system shall remember food that selected to database of user food.

SRS-59: The system shall review food to user. When success process.

**URS-22: Member can add activity to record in health plan.**

**Requirement**

SRS-60: The system shall provide list of activity to user.

SRS-61: The system shall request user select activity.

SRS-62: The system shall provide “Add” button.

SRS-63: The system shall remember activity that selected to database of user activity.

SRS-64: The system shall review activity to user. When success process.

**URS-23: Member can delete food from health plan.**

**Requirement**

SRS-59: The system shall review food to user. When success process.

SRS-65: The system shall provide button to delete food from list.

SRS-66: The system shall request user click delete button.

SRS-67: The system shall delete food from list of health plan.

SRS-68: The system shall save change in database

**URS-24: Member can delete Activity from health plan.**

**Requirement**

SRS-64: The system shall review activity to user. When success process.

SRS-69: The system shall provide button to delete activity from list.

SRS-70: The system shall request user click delete button.

SRS-71: The system shall delete activity from list of health plan.

SRS-68: The system shall save change in database

**URS-25: Member can view body mass.**

**Requirement**

SRS-72: The system shall calculate body mass from information (weight, height) of user.

SRS-73: The system shall display body mass (BMI, BMR) on health plan.

**Feature#6: Statistics glycemic.**

**URS-26: Member can add blood sugar on Health plan page.**

**Requirement**

SRS-74: The system shall provide text box to user.

SRS-75: The system shall request user to input value of blood sugar in text box.

SRS-76: The system shall provide button add to user.

SRS-77: The system shall request user to click add button.

SRS-78: The system shall record the value in database.

SRS-79: The system shall return value to display on graph. When success process.

**URS-27: Member can view blood sugar graph.**

**Requirement**

SRS-80: The system shall provide line graph.

SRS-81: The system shall receive blood sugar value from URS-26

SRS-82: The system shall display blood sugar value to user in form graph.

**URS-28: Member can view recommend value of blood sugar.**

**Requirement**

SRS-83: The system shall provide UI from recommend to user Include(Levels of diabetes, Symptom,How take care).

SRS-84: The system shall bring the blood sugar value to analyze find the levels of diabetes.

SRS-84: The system shall display the levels of diabetes and symptom and how to take care.

**Feature#7: Analyze diabetes.**

**URS-29: Member can select food from health plan.**

**Requirement**

SRS-85: The system shall get food from database user food.

SRS-86: The system shall provide list of food from health plan to user.

SRS-87: The system shall request user to select food.

SRS-88: The system shall review food that selected to user.

**URS-30: Member can select food from database.**

**Requirement**

SRS-89: The system shall get food from database food.

SRS-90: The system shall provide list of food to user.

SRS-87: The system shall request user to select food.

SRS-88: The system shall review food that selected to user.

**URS-31: Member can select activity from health plan.**

**Requirement**

SRS-91: The system shall get activity from database user activity.

SRS-92: The system shall provide list of activity from health plan to user.

SRS-93: The system shall request user to select activity.

SRS-94: The system shall review activity that selected to user.

**URS-32: Member can select activity from database.**

**Requirement**

SRS-95: The system shall get activity from database activity.

SRS-96: The system shall provide list of activity to user.

SRS-93: The system shall request user to select activity.

SRS-94: The system shall review activity that selected to user.

**URS-33: Member can check list of medicine.**

**Requirement**

SRS-97: The system shall get(get by id) list medicine of current user.

SRS-98: The system shall provide display name list of medicine to user.

SRS-99: The system shall request user to check medicine in list.

**URS-34: Member can view graph the difference calorie that receive, calorie to use and glycemic index in each day.**

**Requirement**

SRS-100: The system shall request user to select food and activity after.

SRS-101: The system shall analyze and calculate to find the relationship between calorie that receive from food and calorie to use from activity.

SRS-102: The system shall bring the data from SRS-101 and glycemic index display in form graph.

SRS-103: The system shall display graph to user.