

DATABASE APPLICATION DEVELOPMENT SSK3408-8

MINI PROJECT TITLE:

WEIGHT LOSS PROJECT (KATODIET)

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1.0 Introduction

1.1 Objectives

Obesity is one of the main factors that contributes to health problems. Individuals tend to be distracted with a ton of workload and choose fast-food as the meal. Without any guide and constriction in food daily intake, health issues related to obesity will increase and lead to the top world health complication. Hence, our group has created the solution to prevent the widespread issues.

"KatoDiet" is the web application that will provide the user information about calories intake and calories burn during exercise. The user will be asked to enter their daily food intake and "KatoDiet" will show the total calorie intake per day for a user.

1.2 Purpose

The proposal is to present the weight loss tracker that will track the user in weight control. It also will help the user to achieve the weight target. The website also includes a BMI Calculator which calculates the BMI and ideal weight. The tracker will allow the user to track daily weight and calculate the BMI.

1.3 Website Functionality

- i) User can sign up and log in the system
- ii) User need to insert their current weight and height to calculate BMI
- iii) User can track their calories intake daily
- iv) User can track their calorie burn while doing exercises.
- v) User can choose to edit if there are some error while input the information
- vi) User can choose to delete their data
- vii) User can logout from the system

2.0 Entity Relationship Diagram (ERD)

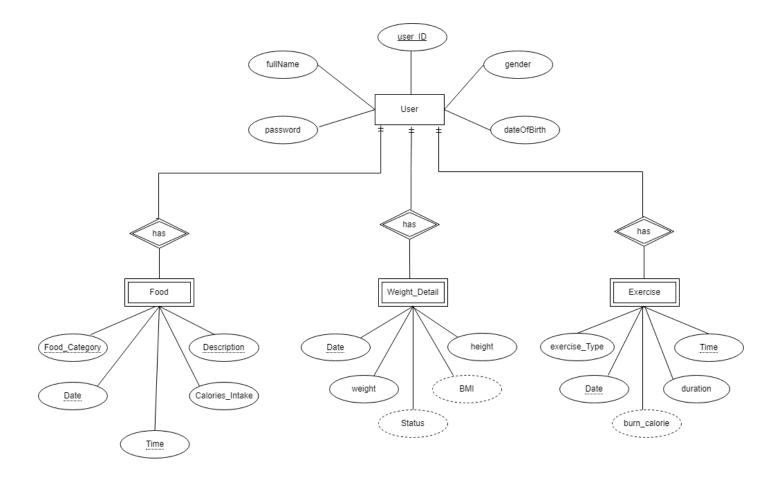


Figure 2.1 shows the Entity Relation Diagram for "KatoDiet" web application. There are four entities which are 'user', 'food', 'weight_detail' and 'exercise'.

3.0 Mapping

3.1 User Table

<u>USERID</u> FULLNAME PASSWORD DATEOFBIRTH GENDE	R
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Table 3.1 shows that user table consist of userid, fullname, password, dateofbirth, and gender

3.2 Food Table

<u>USERID</u>	<u>DATE</u>	FOOD_CATEGORY	DESCRIPTION	TIME	CALORIES_INTAKE
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Table 3.2 shows that food table consist of userid, date, category of food, description, time and calories intake

3.3 WeightDetail Table

<u>USERID</u> <u>DATE</u> WEIGHT HEIGHT

Table 3.3 shows that weight detail table consist of userid, date, weight, and height

3.4 Exercise Table

<u>USERID</u> <u>DATE</u> <u>TIME</u> EXERCISETYPE DURATION

Table 3.4 shows that exercise table consist of userid, date, time, type of exercise, and exercise duration

4.0 Metadata

4.1 Table Name: User

Field Name	Field Type	Constraint	Description
USERID	VARCHAR2(20)	Primary Key	- Primary key of the table user and for user validation
FULLNAME	VARCHAR2(100)		User name
PASSWORD	VARCHAR2(20)		For user validation
DATEOFBIRTH	VARCHAR2(20)		User's date of birth - to get the user's age
GENDER	VARCHAR2(6)		M - male F - female

Table 4.1 shows the metadata of user consist of field name, field type, constraint and description

4.2 Table Name : Food

Field Name	Field Type	Constraint	Description
FOODUSERID	VARCHAR2(20)	Foreign Key refer user (UserID)	Foreign key referencing user table
FOODDATE	VARCHAR2(20)	Partial key	Date of food intake
FOODCAT	VARCHAR2(50)	Partial key	Category of food (e.g. carbohydrate)
FOODTIME	VARCHAR2(20)	Partial Key	Time of Food
FOODDESC	VARCHAR2(50)	Partial key	Description from the food category (e.g. rice)
FOODCALORIES	NUMBER		Calories for each food

Table 4.2 shows the metadata of food consist of field name, field type, constraint and description

4.3 Table Name : WeightDetail

Field Name	Field Type	Constraint	Description
WEIGDETUSERID	VARCHAR2(20)	Primary key and foreign Key refer user (UserID)	Foreign key referencing table user
WEIGDETDATE	VARCHAR2(20)	Partial Key	Primary Key for table Food
WEIGDETWEIGHT	NUMBER		Weight of user
WEIGDETHEIGHT	NUMBER		Height of user

Table 4.3 shows the metadata of weight details consist of field name, field type, constraint and description

4.4 Table Name: Exercise

Field Name	Field Type	Constraint	Description
EXERCISEUSERID	VARCHAR2(20)	Primary key and foreign Key refer user (UserID)	Foreign key referencing table user
EXERCISETIME	VARCHAR2(20)	Partial Key	Time of exercising
EXERCISEDATE	VARCHAR2(20)	Partial Key	Date of exercising
EXERCISETYPE	VARCHAR2(50)		Type of exercising
EXDURATION	VARCHAR2(50)		Duration to count calories burnt

Table 4.4 shows the metadata of exercise consist of field name, field type, constraint and description

5.0 Project Interfaces

5.1 Sign Up Interface

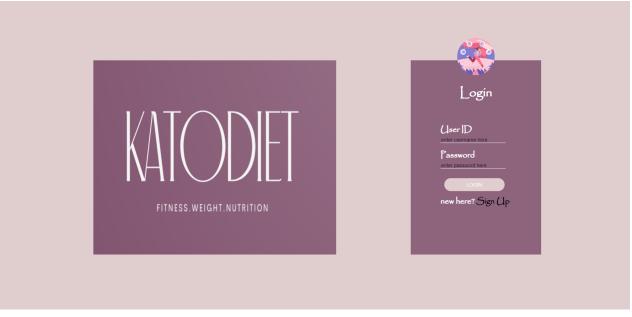


Figure 5.1.1 shows the sign up interface for new users to create an account.



Figure 5.1.2 shows the sign up interface after a user successfully registered an account.

5.2 Login Interface



5.2.1 shows the login interface for the existing users.

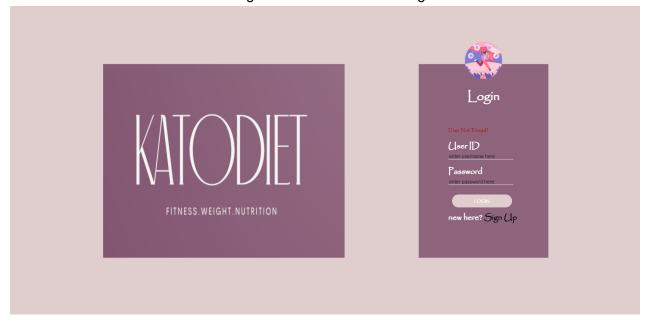


Figure 5.2.2 shows the login interface is the user inserted the wrong or invalid password.

5.3 Home Interface

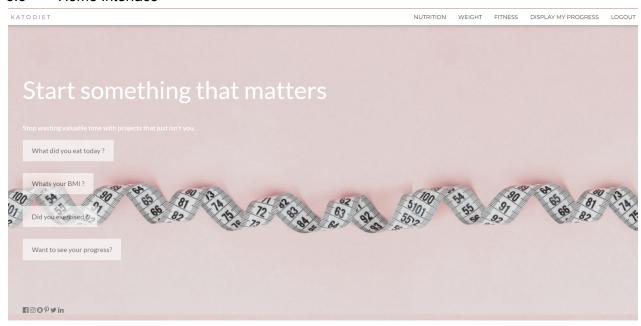


Figure 5.3 shows the home page of KatoDiet's interface

5.4 Food Interface

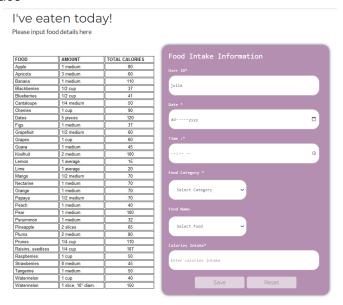


Figure 5.4.1 shows the food interface if the user clicks 'nutrition' at the home page. Food interface displays user id, date, time, food category, food name, and calories intake.

I've eaten today!

Figure 5.4.2 shows the food interface with a success message after a record is successfully saved.

5.5 Weight Details Interface

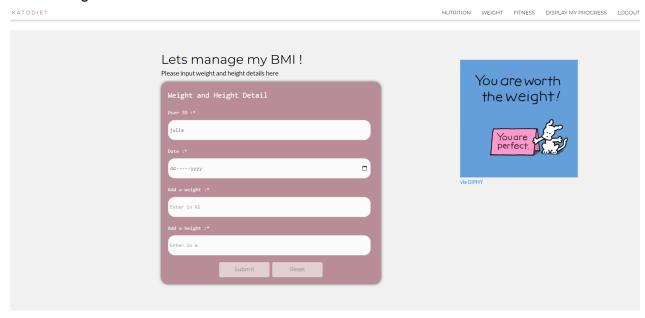


Figure 5.5.1 shows the weight details interface if the user clicks 'weight' at the home page. Weight details interface displays user id, date, weight (in kilogram) and height (in meter)

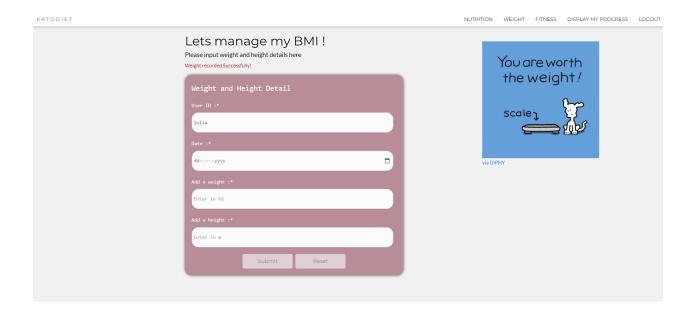


Figure 5.5.2 shows the weight interface with a success message after a record is successfully saved.

5.6 Exercise Interface

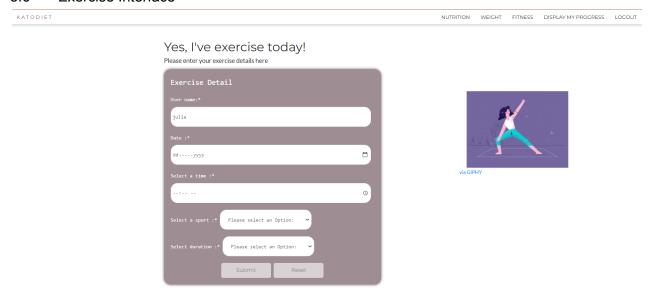


Figure 5.6.1 shows the exercise interface if the user clicks 'fitness' at the home page. Exercise interface displays user id, date, time, sport and duration.

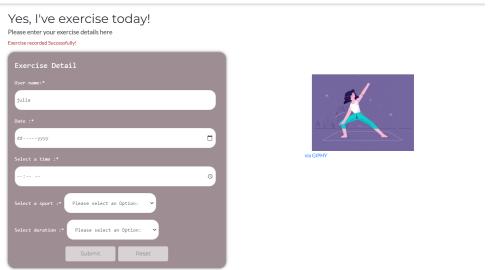


Figure 5.6.2 shows the exercise interface with a success message after a record is successfully saved.

5.7. Display Interface KATODIET NUTRITION WEIGHT FITNESS DISPLAY MY PROCRESS LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutrition | Weight | Fitness | DISPLAY MY PROCRESS | LOCOUT | Nutr

Figure 5.7.1 shows the display interface if the user clicks 'display my progress' at the home page. Display interface shows user id and users can click the 'yes' button if users want to see their progress. The user will then be brought to another display interface.

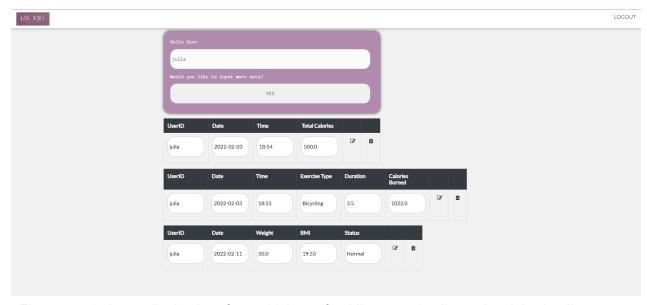


Figure 5.7.2 shows display interface which are food list, exercise list and weight details list.

5.8. Update Food Interface

I've eaten today!

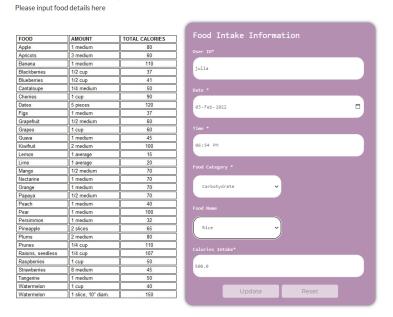


Figure 5.8.1 shows the update food interface that can be edited by the user if the user clicks the 'update' icon. Food details will be change once the user clicks 'update' button

5.9. Delete Food Interface

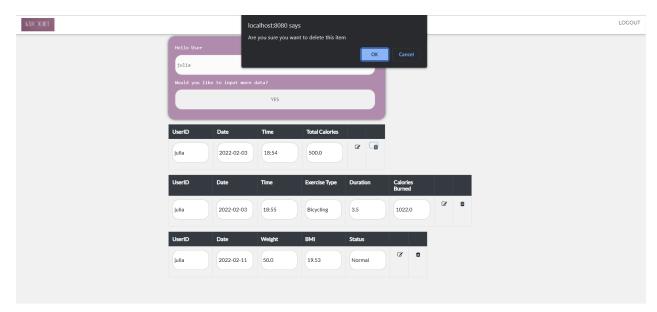


Figure 5.9.1 shows a delete confirmation message on display interface if the user clicks the 'delete' icon.



Figure 5.9.2 shows the food details already removed from the food list if the user clicks the 'OK' button at delete confirmation message.

5.10. Update Weight Details Interface

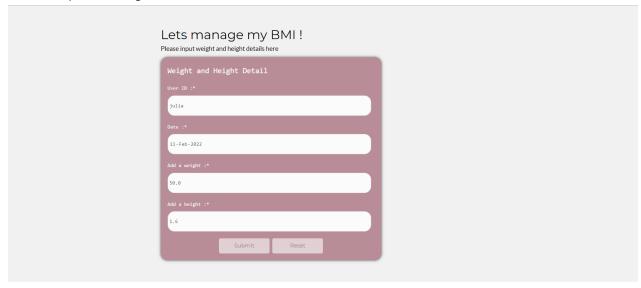


Figure 5.10.1 shows the update weight details interface that can be edited by the user if the user clicks the 'update' icon. Weight details will be change once the user clicks 'submit' button

5.11. Delete Weight Details Interface

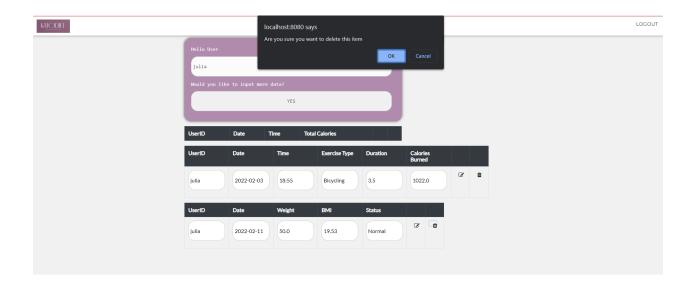


Figure 5.11.1 shows a delete confirmation message on display interface if the user clicks the 'delete' icon.

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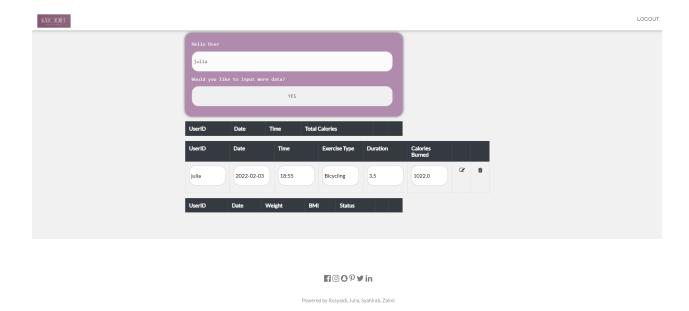


Figure 5.11.2 shows the weight details already removed from the weight details list if the user clicks the 'OK' button at delete confirmation message.

5.12. Update Exercise Interface



Figure 5.12.1 shows the update exercise interface that can be edited by the user if the user clicks the 'update' icon. Exercise details will be change once the user clicks 'update' button

5.13. Delete Exercise Interface

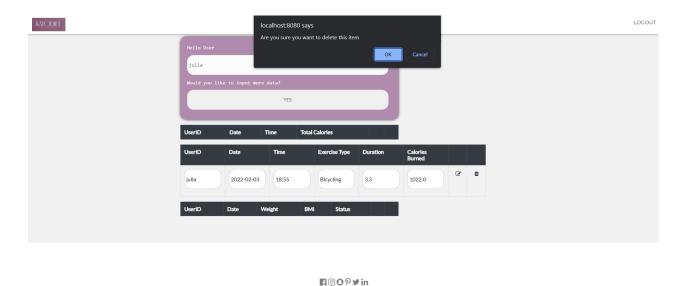


Figure 5.13.1 shows a delete confirmation message on display interface if the user clicks the 'delete' icon.

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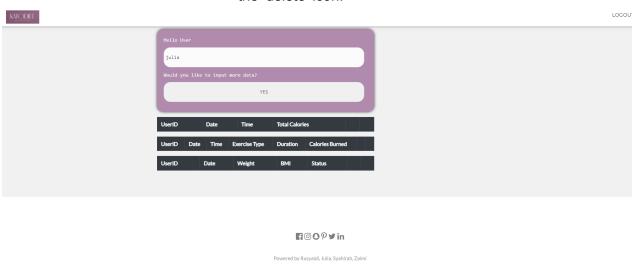


Figure 5.11.2 shows the exercise details already removed from the exercise list if the user clicks the 'OK' button at delete confirmation message.

5.14. Logout Interface

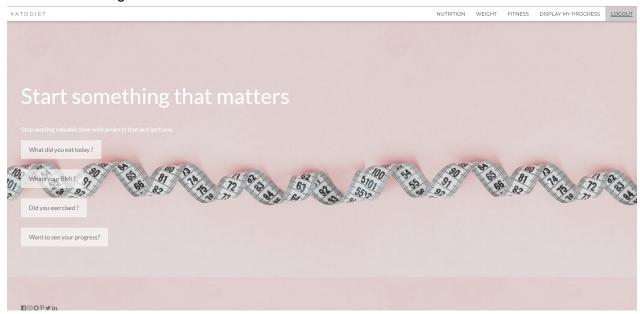


Figure 5.13.1 shows logout button at the homepage of KatoDiet

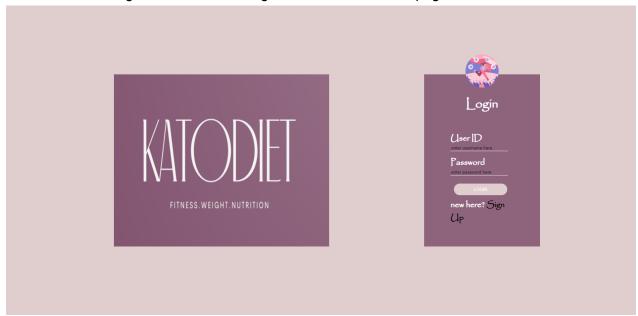


Figure 5.13.2 shows the login interface if the user clicks the 'logout' button.

6.0 Conclusion

'KatoDiet' is a website that helps to stay on track for weight loss progress. It can track calories intake, calories burned and calculate BMI. Therefore, it motivates the user to keep a healthy lifestyle by exercising, eating healty and and maintain a healthy weight. This website is useful for the users who dreams to have a healthy lifestyle to become reality.

7.0 Reference

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