Task 3

Entity Class **Account**	
Responsibilities	Collaborators
- save account username and password - save the password/ username/birthday/gender -save daily food, exercise, input calarise and output calories after exercising - save the daily weight - check in record data will be saved - save the food that user had eaten	- ManageAccount - ManageExercise - ManageFood

Use Case Class **ManageAccount**	
Responsibilities	Collaborators
- create account and sign in - change password - select gender - write review and provide feedback for this application - Check in - input the weight and change the weight if the weight is changed	- Account - Menu

Controller Class **Menu**	
Responsibilities	Collaborators
- display menu including exercise and food - display the list of the exercise and food list - receive username and password to sign in/ sign up - receive the mark done - receive password change	- ManageExercise - ManageFood - ManageAccount

Basic Command Line Interface (UI) **Command**	
Responsibilities	Collaborators

-receive the input from user -print the instruction for app message	-Menu

Entity Class **Exercise**	
Responsibilities	Collaborators
- save the each exercise calories - save the exercise that users have done. - save allr workload type either indoor types or outdoor types	- ManageExercise

Entity Class **Food**	
Responsibilities	Collaborators
-save the food calories -save the categories of food	- ManageFood

Use Case Class **Analyses**	
Responsibilities	Collaborators
- optional time period analyze (weekly, monthly, quarterly, annually) - if the user uses the app over one year, total analysis will be recorded. -weight change based on the time period that user select	- ManageExercise - ManageFood - Account

Use Case Class **ManageExercise** (Use interface Recommendation)	
Responsibilities	Collaborators
- set exercise types and it can be changed like add a new type of exercise or change to another one. - a timer will be created since the user begin the exercise, when user finished, timer will be closed by user - based on type of exercise that provided by user, calculate the calories and save the data in Account	- Exercise - Account

Use Case Class **ManageFood** (Use interface Recommendation)	
Responsibilities	Collaborators
- update food types and it can be changed like eat different type of food	- Food - Account

Interface **Recommendation**	
Responsibilities	Collaborators
- based on the calories, the app offered the exercise plans .	- ManageExercise - ManageFood