

**Assignment 1 Cover Sheet**

**IT1060 – Software Process Modeling**

**Semester 2 Year 01 2023**

<b>PROJECT ID</b>	MLB_15.01_07
<b>CASE STUDY NAME</b>	Diet Planning & Health Check-up System
<b>CAMPUS/CENTER</b>	Malabe Campus

**Group Details:**

	<b>Student Registration Number</b>	<b>Student Name</b>
<b>1</b>	IT22575562	WIJEKOON W.M.M.G.K.P
<b>2</b>	IT22567642	THIKARATHNA P.L.B.H
<b>3</b>	IT22591098	JAYALATH J.P.R.J
<b>4</b>	IT22566034	PERERA K.C.D
<b>5</b>	IT22217622	HETTIARACHCHI A.N.M

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We hereby certify,



The attached is our own work and no further changes will be made.




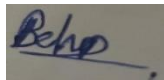
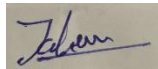
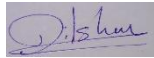
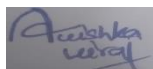
We have contributed in this assignment to the best of our ability.

And we understand,



We may be subject to student discipline processes in the event of an act of academic misconduct by us including an act of plagiarism or cheating.

**Group Details:**

	<b>Student Name</b>	<b>Student Registration Number</b>	<b>Date</b>	<b>Signature</b>
<b>1</b>	WIJEKOON W.M.M.G.K.P	IT22575562	27.04.23	
<b>2</b>	THIKARATHNA P.L.B.H	IT22567642	27.04.23	
<b>3</b>	JAYALATH J.P.R.J	IT22591098	27.04.23	
<b>4</b>	PERERA K.C.D	IT22566034	27.04.23	
<b>5</b>	HETTIARACHCHI A.N.M	IT22217622	27.04.23	

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## **Introduction**

Diet planning and health screening system is a system that contributes to maintaining our health based on our needs and wants. This is very helpful in protecting our health as well as looking for weaknesses and finding the necessary treatment for it.

Any person who has the need can connect to the system . There, the system must register first by providing the required data and information, after which it will connect to the system and provide the opportunity to enter it. (Using usernames and passwords) Here the system will be controlled and managed by the system administrator. In relation to the health information provided, the system conducts random tests in two areas such as food planning and health inspection system. According to the results, if there are symptoms or other weaknesses, it is referred to the relevant sub-systems. There, the nutritionist finds out about the food recipes and prescribes a suitable recipe to the relevant parties. The doctor contributes to the health examination system where necessary information is taken and the relevant documentary information is given under the system and he is connected to the internet and brief information is done through it. The fitness tester informs about the diet and provides the activities and practices to be done to the system. The banking system is used to make the necessary payments and financial transactions for the system, and there is an opportunity to do it by card and online. Finally, the system manager checks the reports obtained by the core system and separates them into sub-reports and prepares a complete correct report(Work Out Plan) as an overall report and outputs it through the system.

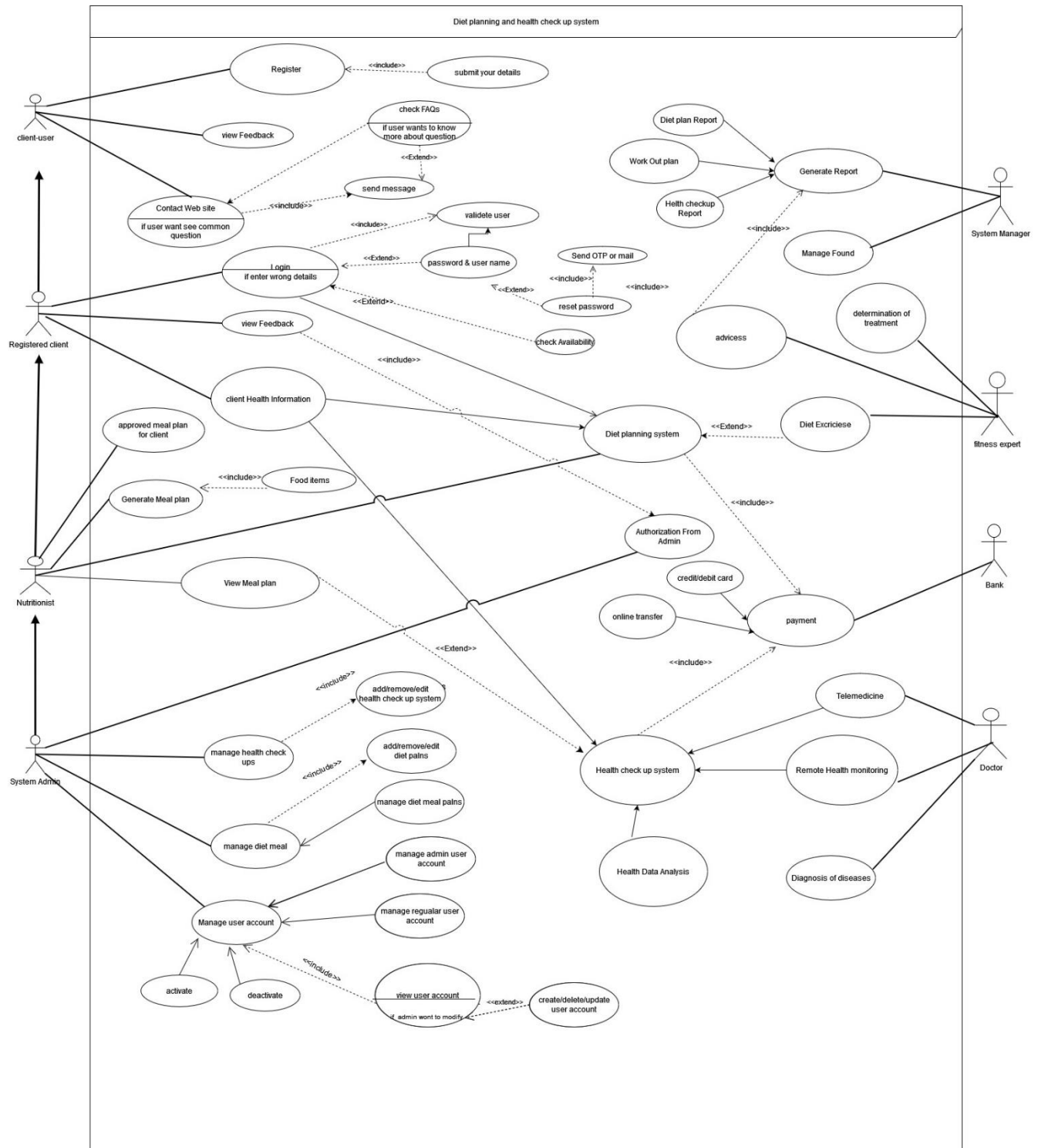
System administrators can also manage staff accounts, update the system and update information. Managers can generate reports, analyze reports and manage funds by logging into the system with his/her credentials. Both guest and registered user act as primary actors and system manager, nutritionist, fitness tester and administrators act as secondary actors. Use case diagrams and use cases illustrate the flow of events in this system.

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### Use Case Diagram and Use Case Scenarios



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<b>Number</b>	01	
<b>Name</b>	Register	
<b>Summary</b>	Register as a user	
<b>Priority</b>	01	
<b>Pre-condition</b>	Users must visit the website	
<b>Post-condition</b>	The system sends an email of gratitude to a user with a note to confirm successful registration.	
<b>Primary actor</b>	User-client	
<b>Trigger</b>	client chooses to register	
<b>Main scenario</b>	<b>Step</b>	<b>Action</b>
	1.	Visit the website you wish to register on.
	2.	Look for a Register button on the website login page and click on it
	3.	System displays the Registration form and asks you to enter the details.
	4.	Enter your personal information, such as your name,email, password, phone number,re-enter password
	5.	client clicks on the sign-up button to submit the registration form.
	6.	System stores the client details and sends an email with link and pinnumber for confirm entered email.
	7.	client enters pin number on web site or clicks on confirm link in the email.
	8.	System sends an email of gratitude to user with a note confirm aboutsuccessful registration.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	4a	The system alerts you that the email you entered is invalid.
	4b	Client is informed by the system that the entered username is already in use.
	4c	System notifies client that the entered password is weak.
	4d	System notifies client that the re-entered password is not matched withprevious password.
	5a	System notifies client that information provided is incomplete
<b>Open issues</b>	1	

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**IT22591098:Jayalath J.P.R.J****a)Section worked on**

- Designed use cases for the actor User-client
- Designed use case scenario for Register

**b) Individual Contribution**

- Created use case diagrams for Registration.
- Worked on actor - Registered user.
- Worked on creating a use case scenario for Register as a user.

**c) Challenges faced**

- I have faced signal issues and power failure issues on these days.
- Also, we have to face the MID exam on next week, so we had to manage our time.
- Difficult to identify use case generalization.

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<b>Number</b>	UC002	
<b>Name</b>	Login	
<b>Summary</b>	Registered user login to the system	
<b>Priority</b>	002	
<b>Pre-condition</b>	The user needs to be signed into their account on the stores website	
<b>Post-condition</b>	The user can see account details and order history after login into their account	
<b>Primary actor</b>	Registered client	
<b>Trigger</b>	The user inputs their login information after clicking the “login” button on the page	
<b>Main scenario</b>	<b>Step</b>	<b>Action</b>
	1.	The user accesses the store website and clicks the “Login” button
	2.	The user is prompted to input their login information in a form that the system displays
	3.	The user inputs their login information, including their email address and password
	4.	The system checks user’s login information.
	5.	If the user’s login information is accurate, the system logs them in and directs them to their account dashboard
	6.	If the user’s login credentials are entered incorrectly, the system shows an error message informing them of the problem and asks them to reenter their credentials.
	7.	The user can see their account detail and order history after logging in.
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	4.a.	By selecting the Forgot Password option, users can reset their passwords.
	4.b.	System encourages users to enter email addresses again if incorrect.
	4.c.	Account locked due to repeated failed login attempts requires customer service unlocking.
<b>Open issues</b>	1.	

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**IT22567642:Thilakarathna P.L.B.H****a.)Section worked on**

- Designed use cases for the actor “Registered client”
- Designed use case scenario for “Login”

**b.) Special contribution**

- Detected some errors and corrected them
- Helped to other members for complete their case scenarios

**c.)Challenges faced**

- Communication was a problem as we haven't met
- We can't understand some different parts in recorded lectures



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<b>Number</b>		
<b>Name</b>	Manage user account	
<b>Summary</b>	Administered by System admin	
<b>Priority</b>	High	
<b>Preconditions</b>	The system admin needs to get the client's data	
<b>Postconditions</b>	System admin control by the system	
<b>Primary Actor(s)</b>	System Admin	
<b>Trigger</b>	The system manager decides to generate reports	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	Obtaining user account information
	2	Validity check at system login
	3	Referral to relevant systems as required
	4	Identifying needs and providing advice to user accounts
	5	Control the system according to the appropriate instructions
	6	Checking and summarizing whether the method of administration is correct
	7	
	8	
	9	
	10	
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	1.a	Admin user account & regular user account visited manage user account System Audit and Administration
	1.b	Representation of administration through relevant detail view user account system
	4.a	Manages user accounts through activation and deactivation
<b>Open Issues</b>	1	Each section has to be individually inspected and controlled

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**IT22575562 WIJEKOON W.M.M.G.K.P****Individual Contribution**

- Created use case diagrams for Management this System
- Worked on actor – System Admin
- Obtaining data required for administration and providing administration and advice as per appropriate specifications
- Introduction to the Assignment.

**Challenges faced**

- Difficulty to meet team members on the campus for the completion of assignment Due to this pandemic and Transportation difficulties of the country.
- We had to manage the time, as we had to work on another assignment of IWT module

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<b>Number</b>		
<b>Name</b>	Generate Meal Plan	
<b>Summary</b>	This use case describes the process of generating a personalized meal plan for a user based on their dietary preferences and restrictions	
<b>Priority</b>	High	
<b>Pre-condition</b>	The Nutritionist must be authenticated and have access to the client's account	
<b>Post-condition</b>	The Nutritionist generates a customized meal plan for the client	
<b>Primary actor</b>	Nutritionist	
<b>Trigger</b>	The Nutritionist selects the option to generate a meal plan for a client	
<b>Main scenario</b>	<b>Step</b>	<b>Action</b>
	1.	The Nutritionist selects the client for whom they want to generate a meal plan.
	2.	The nutritionist is prompted by the system to enter the client's Health information, limits, and needs.
	3.	The system generates a customized meal plan for the client based on the provided information.
	4.	The system saves the approved meal plan to the client's account.
	5.	
	6.	
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	3.a	Information needed to prepare nutritious meals is obtained from the food system
<b>Open issues</b>		

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Student Id - IT22217622  
Name - Hettiarachchi A.N.M

### **Worked Section**

- Designed the use case for the actor “Nutritionist”
- Designed the use case scenario for “Generate meal plan”

### **Special Contribution**

- Search information about diet planning and health checkup system use case diagrams and use case scenarios.
- Gathered everyone’s ideas and draw a use case diagram in a rough sheet

### **Challenges faced**

- We had to manage our time to gather and do parts of the assignment.
- It was very hard to make a clear understanding about diet planning and health checkup system at very first time when the topic was given.

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<b>Number</b>	08	
<b>Name</b>	Generate Reports	
<b>Summary</b>	System Manager generates the report	
<b>Priority</b>	04	
<b>Preconditions</b>	The system manager needs to get the client's data	
<b>Postconditions</b>	System Manager manages data	
<b>Primary Actor(s)</b>	System manager	
<b>Trigger</b>	The system manager decides to generate reports	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1	System manager received health information
	2	System manager received fitness data from fitness expert
	3	Analyzes data and creates a summary
	4	Check if the data is correct
	5	Generate the final report
	6	
	7	
	8	
	9	
	10	
<b>Extensions</b>	<b>Step</b>	<b>Branching Action</b>
	1.a	System manager visits diet planning system
	1.b	System manager visits health checkup systems
	4.a	System Manager asks the user for correction data
<b>Open Issues</b>	1	Data should be checked for accuracy

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- ❖ Student Id - IT22566034
- ❖ Name - K.C.D. PERERA

**Worked Section**

- Use Case -
  1. Generate reports.
  2. Manage Client data.
  3. Fitness test
  4. Diet plan
- Use Case Scenario -
  1. Generate reports.

**Individual Contribution**

- Create use case diagrams for generating reports.
- Worked on actor – System manager.

**Special Contribution**

- I got advice from my group members and the support of the internet.
- Research relevant use case.

**Challenges faced**

- I had to manage my time because I had to study for the exam.
- I'm having signal issues so some group calls are dropping.