



Graduation Project



B-fit platform

A Graduation Project submitted to:
Computer Science & Information System Department
Faculty of Computers and Information - Minia
University
in Partial Fulfillment of the Requirements for the
Degree of
Bachelor of computer Science
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Chapter 1:

1.1 Project Background

The basic idea of the project is to have anything and everything needed about health and body fitness. The website/application contains multiple programs for both diet and exercises, sells any needed products that are related to health and body fitness, routes and points out any nearby GYM for the user, reminds the user of drinking water continuously, provides any needed information that is related to (calories, health tips, ideal weight, etc..), and has online coaches and professionals ready for any questions.

1.2 Project Target

Is to make it easier for people to have everything about fitness in only one application/website without being bothered with many applications and workout at home. It also has added features that help user to drink water and contact with online experts for any consultation.

1.3 Importance

The importance in this is to help motivate people to take care of their health by facilitating and providing fitness materials in between the user's hand.

1.4 As A system

Before the existence of this system people would get distracted by having many websites to reach and being confused by choosing which one of them and having difficulties to find professionals and contact with them.

There're even more problems like:

-People can face problems like going through websites that contain wrong, unhealthy or even dangerous information about fitness, but instead, the website/application has authorized information supported by experts and professionals.

1.5 To Be A system

After we build this system the user can find ease in the following:-

- Finding correct diet and exercises programs.
- Ordering all products that are related to health and body fitness.
- Consulting experts in health nutrition and professional captains.
- Receiving notifications for health tips and drinking water reminder.

1.6 System Request:

Project sponsor:

Team members, people

Business need:

1. Place the nearest gym
2. Order delivery to people
3. Coach help people
4. Knowing the closest healthy diet to him
5. A constant reminder to drink water

Business requirements:

Using a mobile app or website, users can search ...

- Diet
- Sportswear
- Exercises

- Strengthening the folds
- The nearest Jim
- Notes on fitness

Tangible values:

- Diet exercise
- The closest Jim and its price
- Communicate with a coach

Intangible values:

The ease to find the best instructors in their location Jim.

1.6 Feasibility Study

Technical Study

- Familiarity with the application:

The familiarity with application is high because our application will be implemented as website and android application, which will be covenant to smart phones that most of users have, also our application will be implemented as web application, which will be available to any user, and the risk is low because the interface of the application will be simple for all users.

- Familiarity with technology:

We have a good experience in website and android programming (mobile application), also we experience to develop application as a web application.

- Project size:

Our website/application has a lot of features so the size is large.

- Team members:

Seven members.

- Time:

The time enough to some extent because we have nine months to almost finish the website/application, and we are seven members in the team; there are a lot of features, so the time is fairly enough but to some extent.

- Features:

The required features to make a complete application need much more time than available so may be features doesn't exist in the first version, but sure there will be in the second version when we update the application.

- Compatibility:

Our application will be both website and android application that is implemented on smart phone and also web application to be available to all users.

Economical study

	2020	2021	2022	2023	2024	Total
Benefits :						
Increased seals:		75.000	110.000	160.000	200.000	545.000
Total benefits:		75.000	110.000	160.000	200.000	545.000
Development costs :						
Software license :	40.000	000.000	000.000	000.000	000.000	40.000
Server software :	30.000	000.000	000.000	000.000	000.000	30.000
Development labor :	50.000	000.000	000.000	000.000	000.000	50.000
Total development costs:	120.000	000.000	000.000	000.000	000.000	120.000

Operational costs :						
Hardware:		50.000	50.000	50.000	50.000	200.000
Software:		30.000	30.000	30.000	30.000	120.000
Operational labor :		3000	4000	6000	7000	20.000
Total operational costs:		83.000	84.000	86.000	87.000	340.000
Total costs:	120.000	83.000	84.000	86.000	87.000	460.000
Total benefits-Total costs:	[120.000]	[8000]	26000	74.000	113.000	85.000
Return On Investment (ROI):	18.47%					
Break-even point	3.3 years					

Organizational Study:

-From an organizational perspective ,this project has low risk.

The objective of the system ,which is to get onto a healthy nutrition plan ,improve our immune system and make your fitness goals specific,measurable,attainable and time bound.

*Project Chamoion:

The project has a champion is the government (Ministry Of Sports) that supports the project.

*Users:

Any person can use this app because it is easier for them to quickly ask the coachs for healthy system .

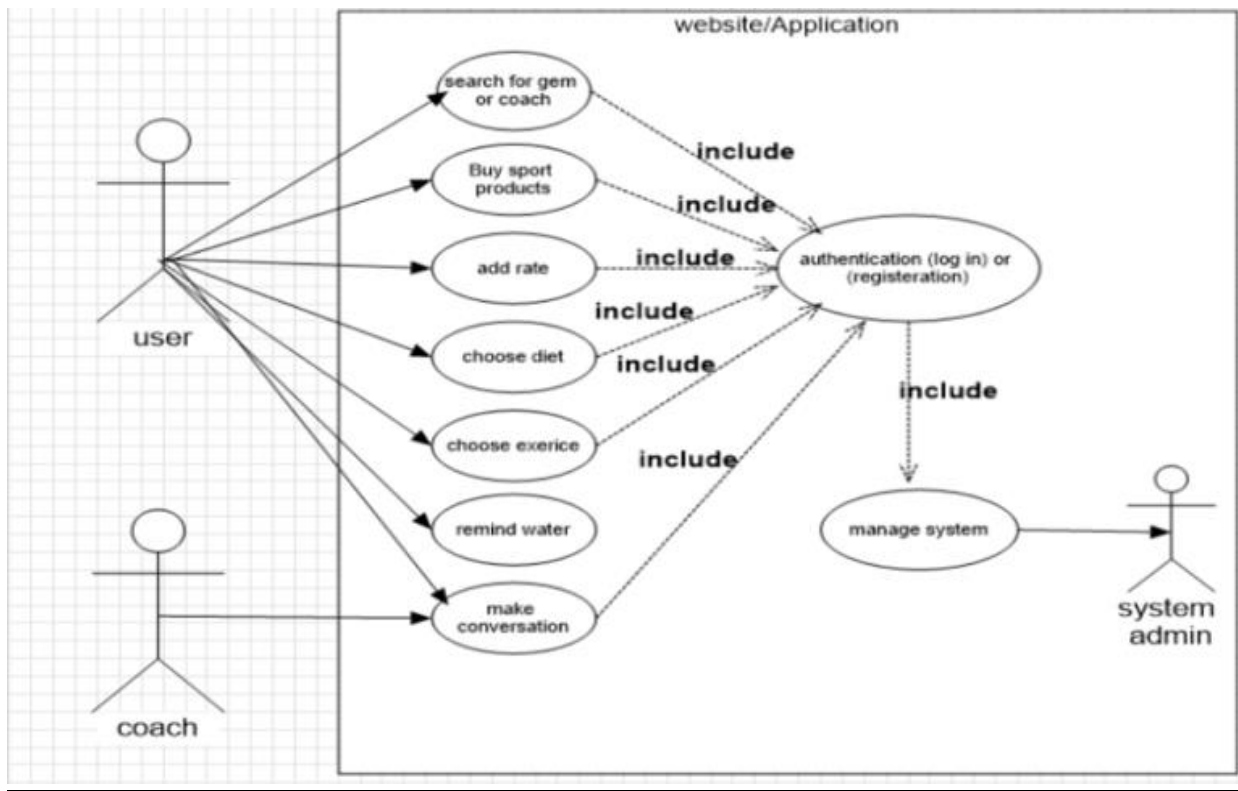
-The users of the system are expected to estimate the benefits of the application and it should accept through adminstration because it saves time for all users .

CHAPTER 2

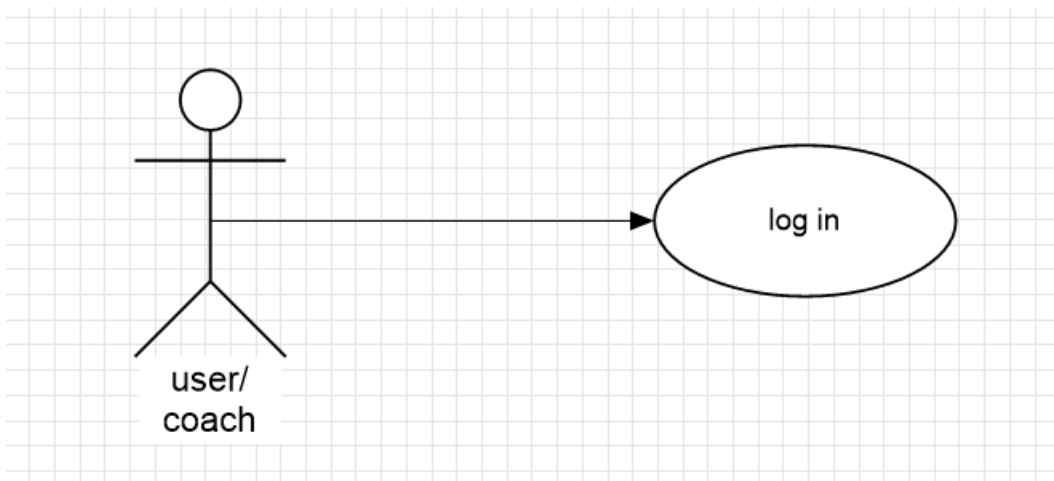
2.1 Actor and Goals:

Actor	Goals
User(people/coach/ deliver man)	Order request
	Search for the nearest gym
	Communicate with coach
	Searching for exercises
	Searching for types of diet
	Knowing diet exercises
	Notes to maintain weight
	Delivery of the order
System Admin	Manage System(see requests, Order delivery to people ,add/delete user)
	Reminder to drink water
	Show sports products
	Check the store

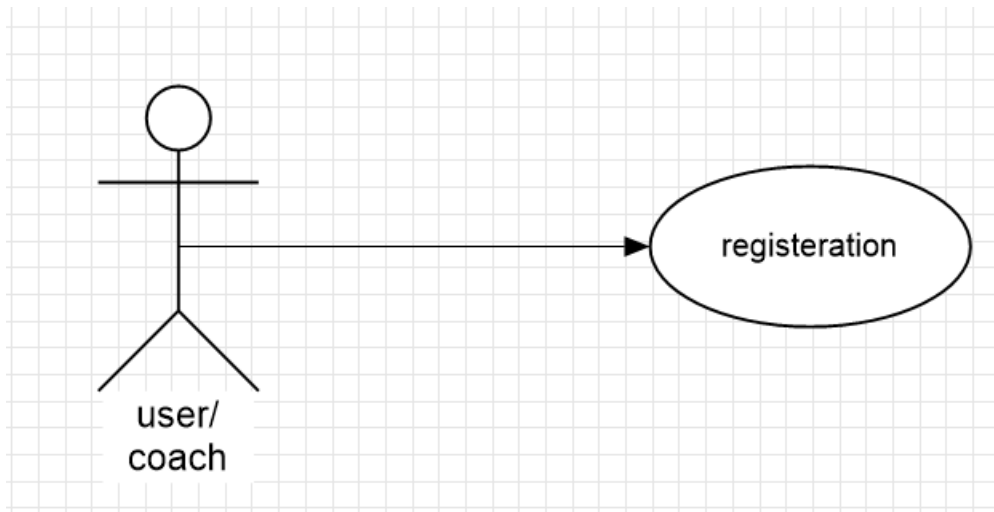
2.2 Use Case Diagram :



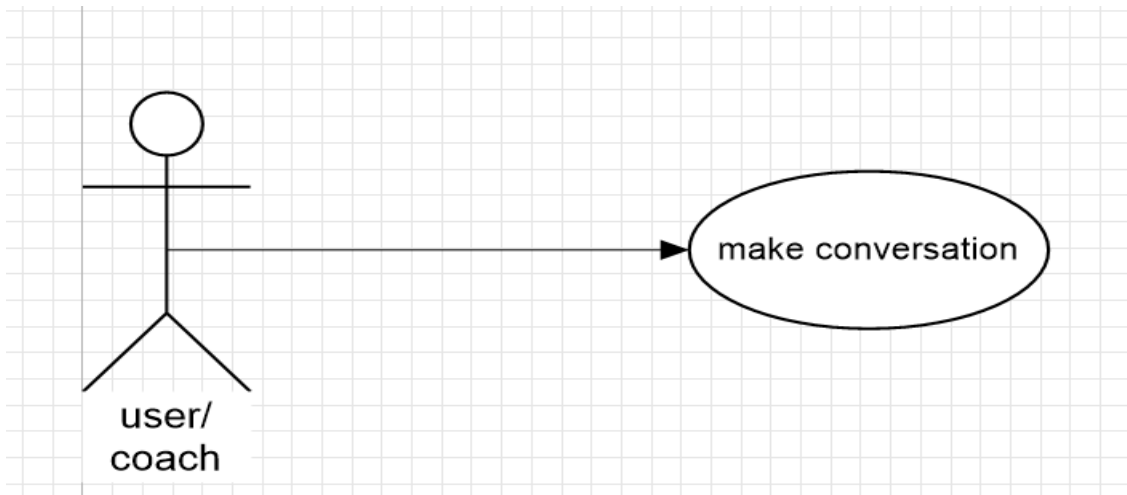
2.3 Use Cases :



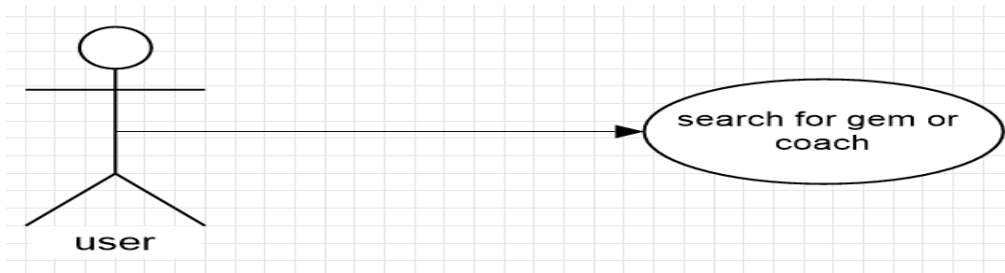
Element	Details
ID	UC-2
Title	Login
Description	Both of user or admin can login the mobile application or the web application by username and password.
Primary actor	The user/coach /System Admin
preconditions	The User have previous successfully registration in in System.
Post conditions	The User have account in our system.



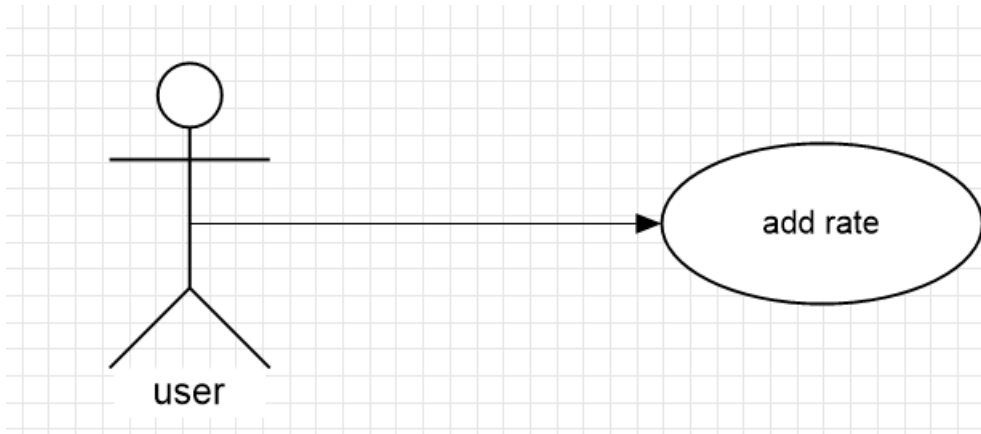
Element	Details
ID	UC-1
Title	Make Registration
Description	The User have previous successfully registration in in System.
Primary Actor	The User have previous successfully registration in in System.
Precondition	The User have previous successfully registration in in System.
Post conditions	The User have account in our system.



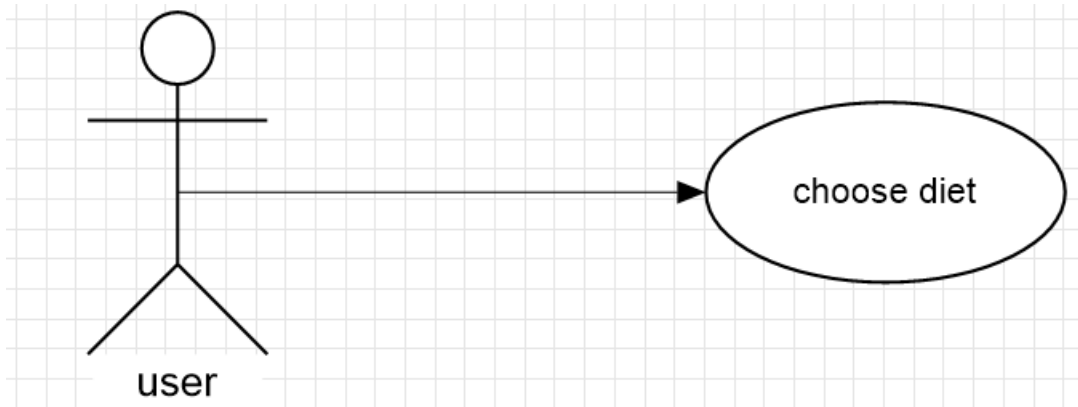
Element	Details
ID	UC-3
Title	Make conversation (Chat).
Description	Users Can Perform Conversation with any user in System by open chat room with another user and begin send and receive messages.
Primary Actor	Any User /coach.
Precondition	1-The User /coach Must be Logged in System. 2-and know the link of chat room or profile of another user.
Post condition	The User has a room that give him ability to send and receive Messages with specific another user.
Main success scenario	1-user open Home Page of System. 2- Open chat room with a person that need to chat with him. 3-then user can begin conversation.



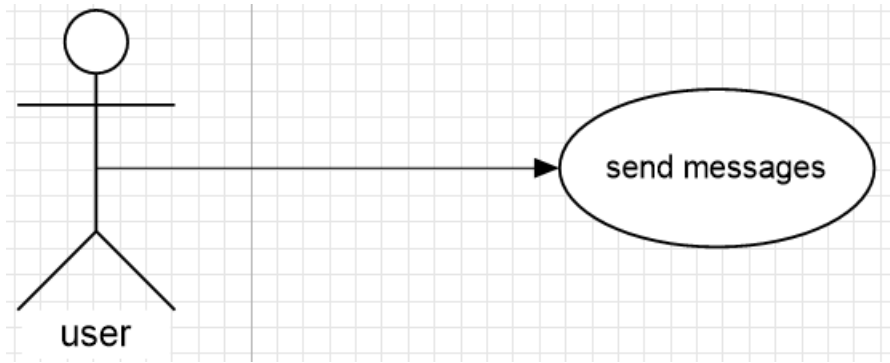
Element	Details
ID	UC-4
Title	Search for gems or coaches
Description	User access the System to search for gem or coach to know location or need help from coach.
Primary Actor	Users .
Preconditions	The User must be logged in System
Post conditions	System Show List of coaches or gems with their average rate to user.
Main success scenario	1. User Open Home Page of the System. 2. Then write needed gems or coach in search bar. 3. System display List of gems or coaches whose have needed skills with their rate. 4. The user choose needed gem or coach.
Extensions	3a: no gem or coach available in system for this need. 3a.1: system show error message saying no gems or coach found for this skills. 3a.2: then user either back out of this use case or trying update writing syntax of entered need.



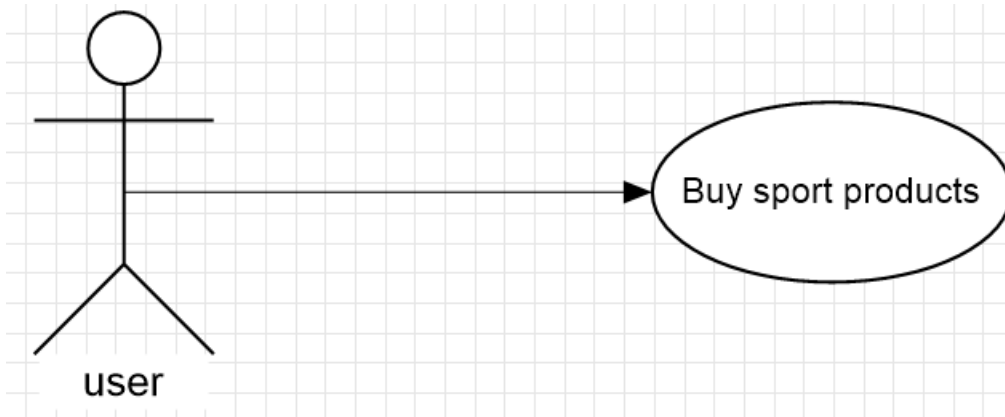
Element	Details
ID	UC-5
Title	Add Rate.
Description	User after using website what he/she need in any way. can add rate to gem or coach
Primary Actor	User
Preconditions	1-User must be logged in system. 2-there is previous conversation or work between two users
Post conditions	Updating The Rate of Instructor User.
Main success scenario	1-User must be logged in system. 2-there is previous conversation or work between two users



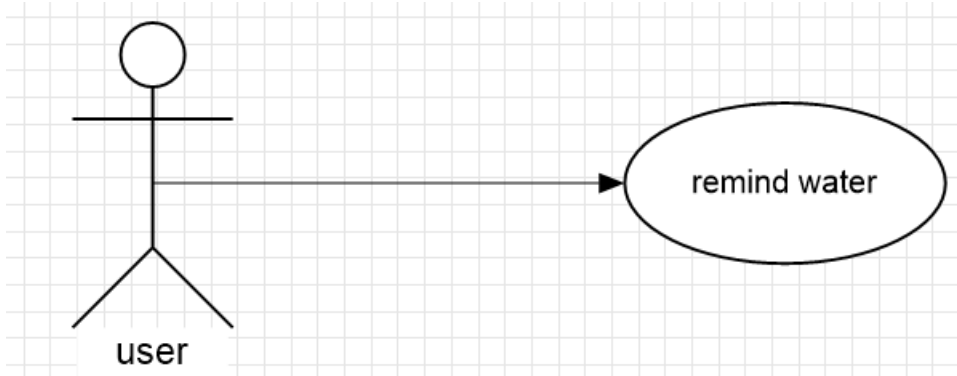
Element	Details
ID	UC-6
Title	Choose the best diet
Description	When user enter all information ,website show all diets or health food should follow it then user choose the best diet
Primary Actor	User .
Preconditions	The User must be logged in System
Post conditions	System Show List of diets with their average rate to user.
Main success scenario	1. User Open Home Page of the System. 2. Then write all information 3. System display List of diets . 4. The user choose the best diets .



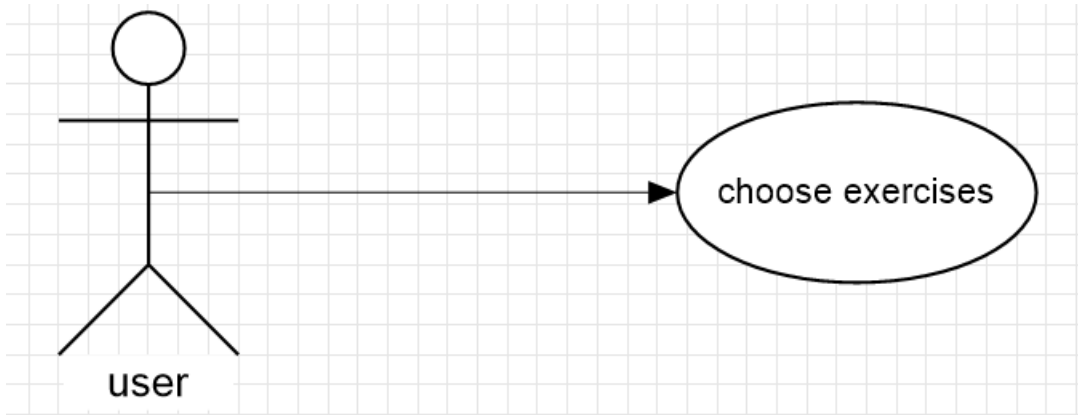
Element	Details
ID	UC-7
Title	Send message
Description	Users Can send message to website to can contact with us
Primary Actor	Any User.
preconditions	1-The User Must be Logged in System. 2-and know the link of chat room to send message
Post conditions	The User has a room that give him ability to send and receive Messages with specific another user.
Main success	1-user open Home Page of System. 2- Open chat room with a person that need to chat with him. 3-then user can begin conversation.



Element	Details
ID	UC-8
Title	Buy sport products
Description	User access the System to buy sport products.
Primary Actor	User .
Preconditions	The User must be logged in System
Post conditions	System Show List of categories
Main success scenario	1. User Open Home Page of the System then go to buy page. 2. Then write needed category and product 3. System display List products the user need . 4. The user choose needed product.
Extension	3a: no category or products user need. 3a.1: system show error message saying no this products . 3a.2: then user either back out of this use case or trying update writing syntax of entered need.



Element	Details
ID	UC-9
Title	Remind water
Description	When user enter amount of water per hour .
Primary Actor	User .
Preconditions	The User must be logged in System
Post conditions	System reminder them to drink water .
Main success scenario	1. User Open Home Page of the System. 2. Then go to reminder water then write amount . 3. System reminder them.



Element	Details
ID	UC-10
Title	Choose exercises
Description	When user enter all information ,website show all diets or health food should follow it then user choose the best diet
Primary Actor	User .
Preconditions	The User must be logged in System
Post conditions	System Show List of exercises with their average rate to user.
Main success scenario	<ol style="list-style-type: none"> 1. User Open Home Page of the System. 2. Then write all information 3. System display List of exerices . 4. The user choose the best exerices .

1.8 Work plan

<i>Task Id</i>	<i>Task Name</i>	<i>Assigned to</i>	<i>Start Date</i>	<i>End Date</i>
1	Planning phase and introduction	Sara	14/11/2020	16/11/2020
1.1	System request and Domain model and Class Diagram	Alshimaa	15/11/2020	16/11/2020
1.2	Feasibility study and Create work plan	Aya	14/11/2020	17/11/2020
1.3	Use Case Diagram and Use Case	Nehal	15/11/2020	17/11/2020
1.4	Risk management	Radwa	15/11/2020	17/11/2020
1.5	Sequence Diagram And ERD	Esraa	15/11/2020	16/11/2020
1.6	Contract Operation And Conceptual Classes	Nermeen	16/11/2020	17/11/2020

Risk management



Risk 1 :

The required diet course or gem location or coaches isn't in the site.

✓ **Ways to solve this risk:**

The system will send message for the user that the site hasn't this community and Set a date for getting this track.

● **Risk 2 :**

The user found any problems during the use of the site or can't know how to use this site .

✓ **Ways to solve this risk :**

There is an additional icon which has more about how to deal with system.

Risk 3 :

The user can't find his identity or forget his password .

✓ **Ways to solve this risk:**

After login for first time ask from user to Enter phone number and if user miss id can contact with system by phone number or email to reset password .

● **Risk 4 :**

If any health problem in diet course

✓ **Ways to solve this risk**

We make contacting to coach

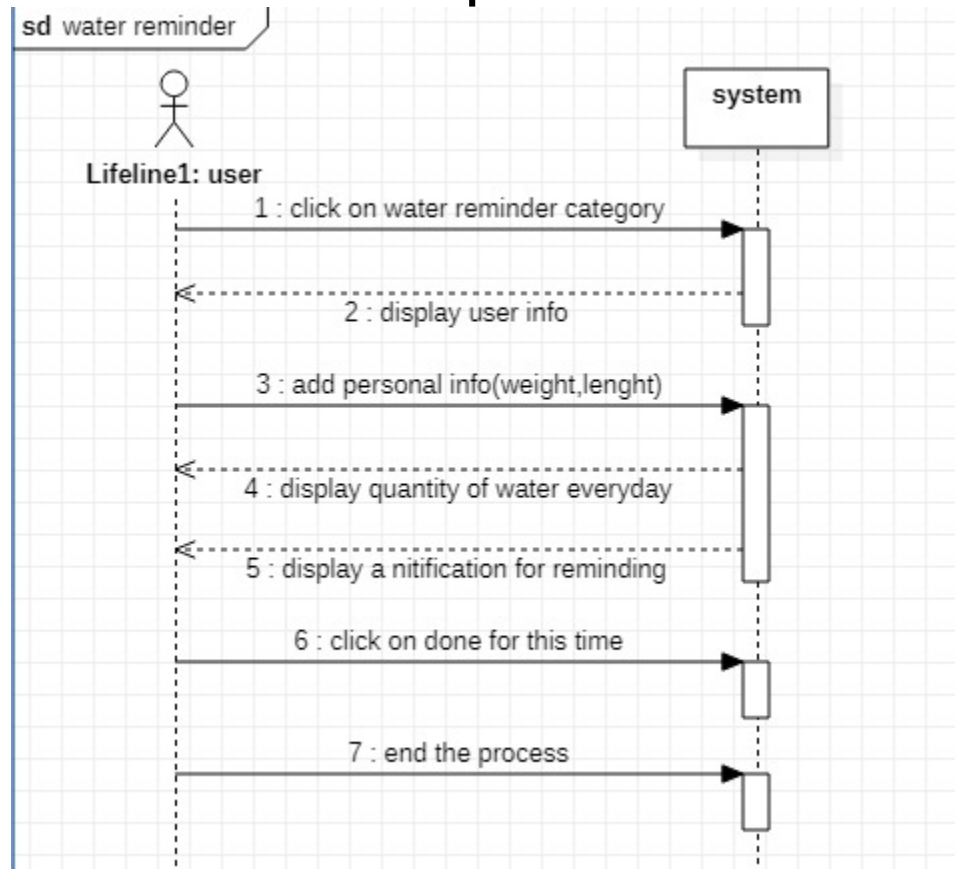
Risk 5 :

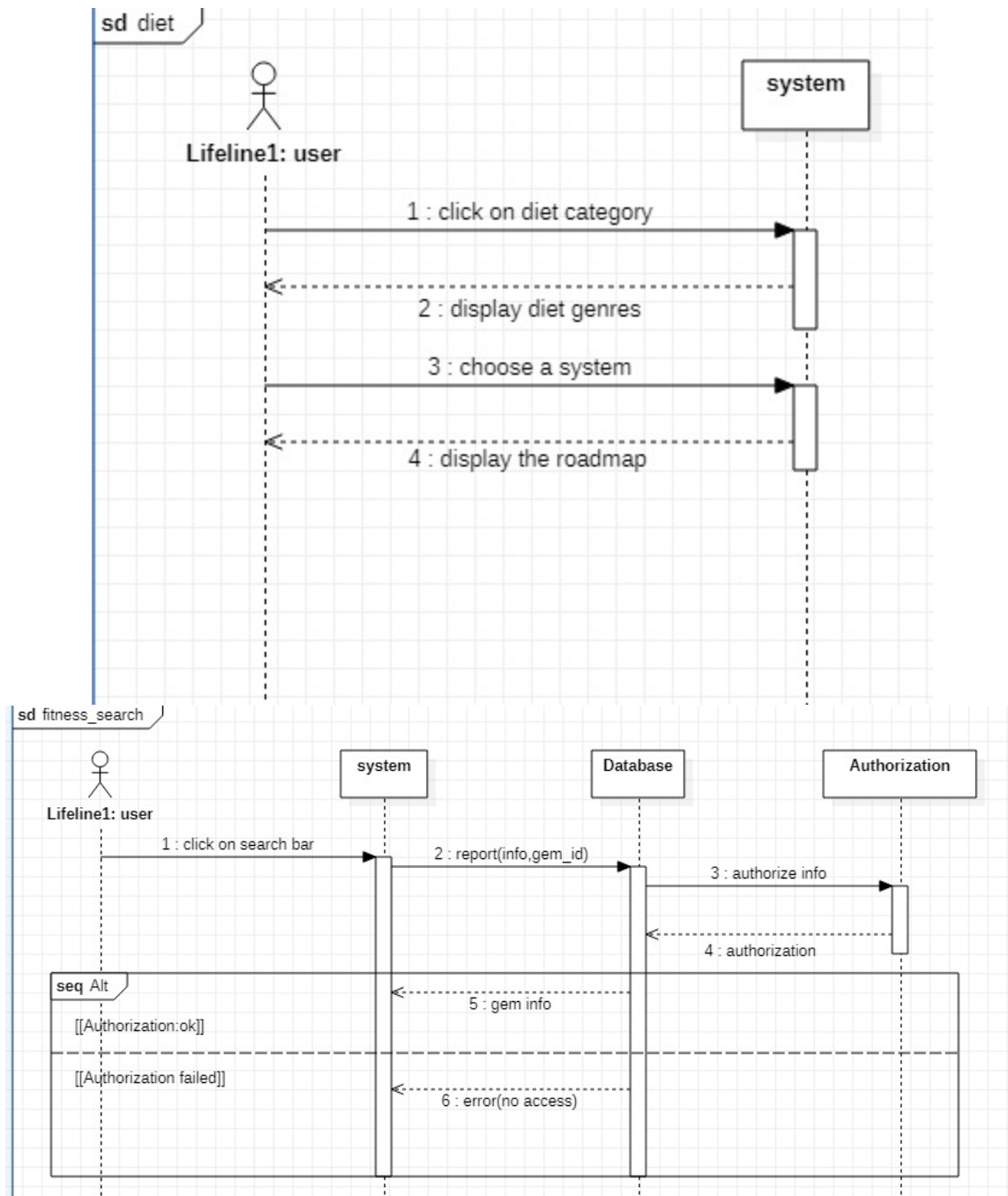
If any couch or gem try to lie or Cheat

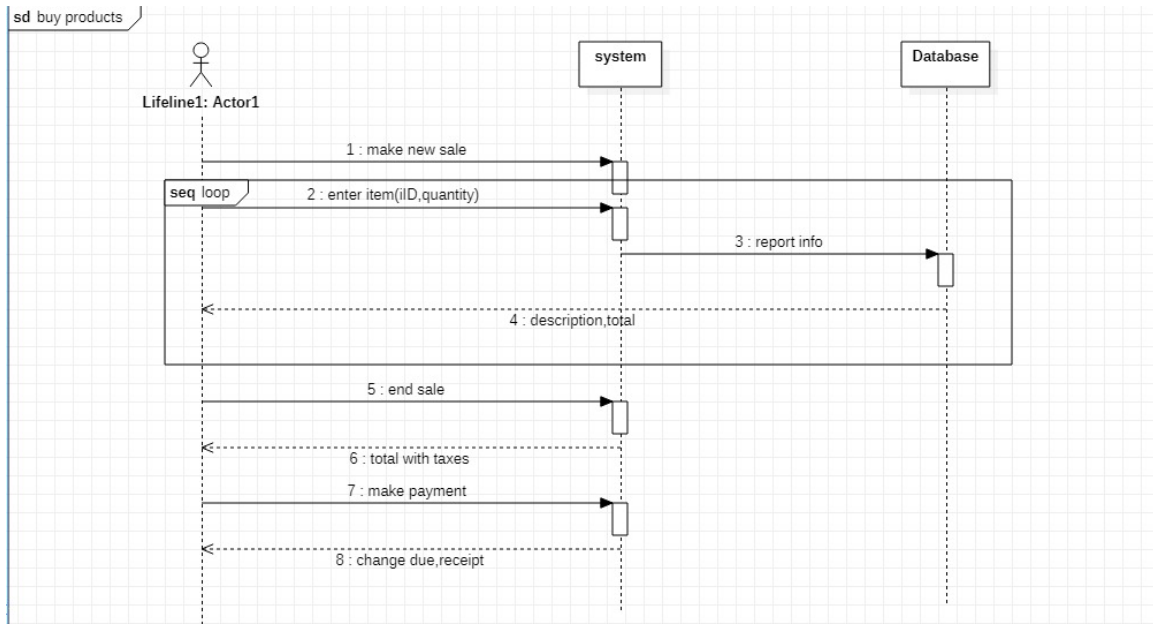
✓ **Ways to solve this risk**

We make total Rate for coach or gem to Review on his profile and we take our information and certificate .

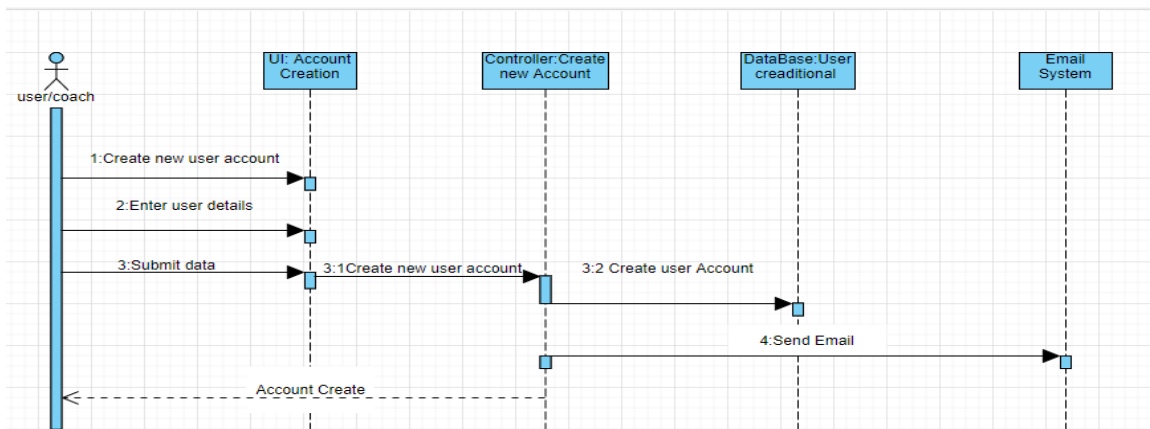
Chapter 3

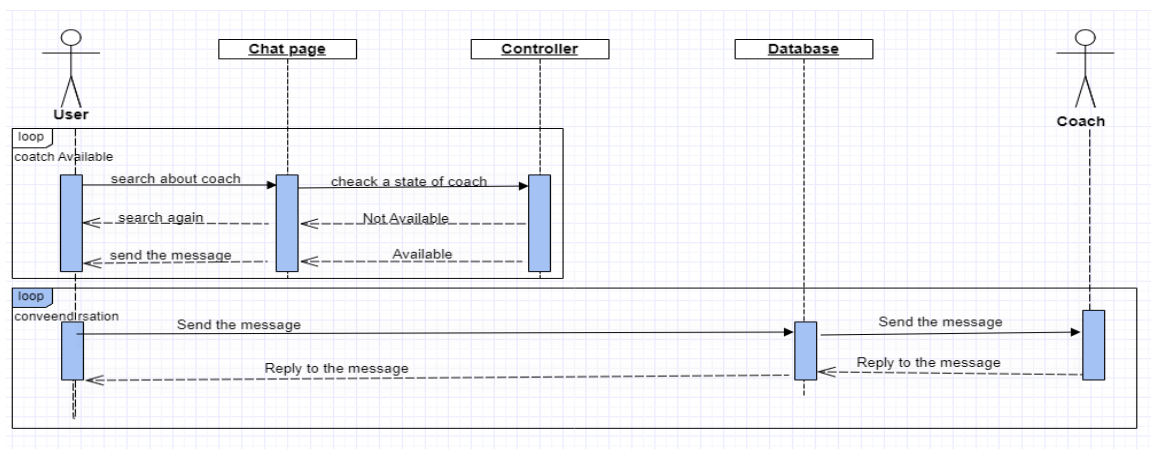
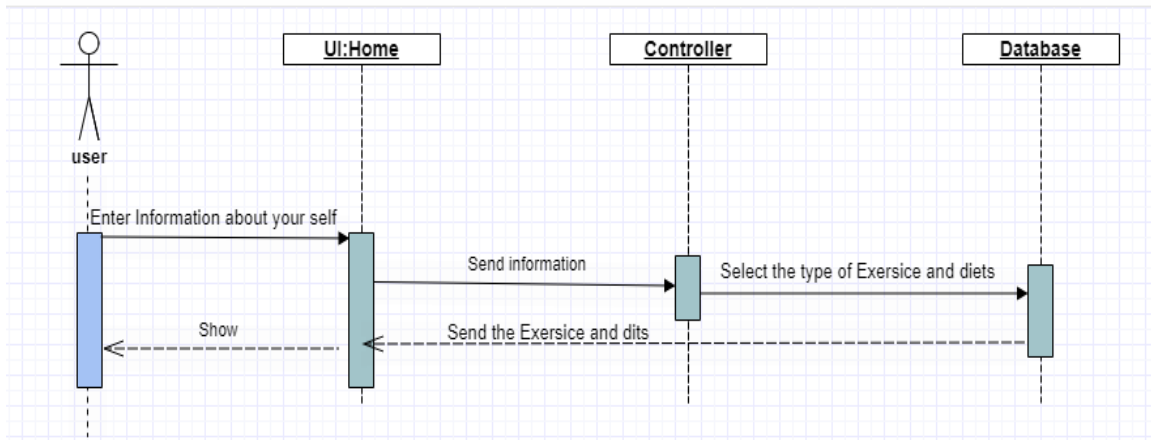






3.2 Sequence Diagram





3.3Contract Operation:

Contract name: make new sale

Operation : add sale

Cross reference: use case add

Precondition: the system displayed to the user a list of products that is selected .

Post condition: the list and bill will update

Contract name: enter item (id, quality)

Operation : add item

Cross reference: use case add

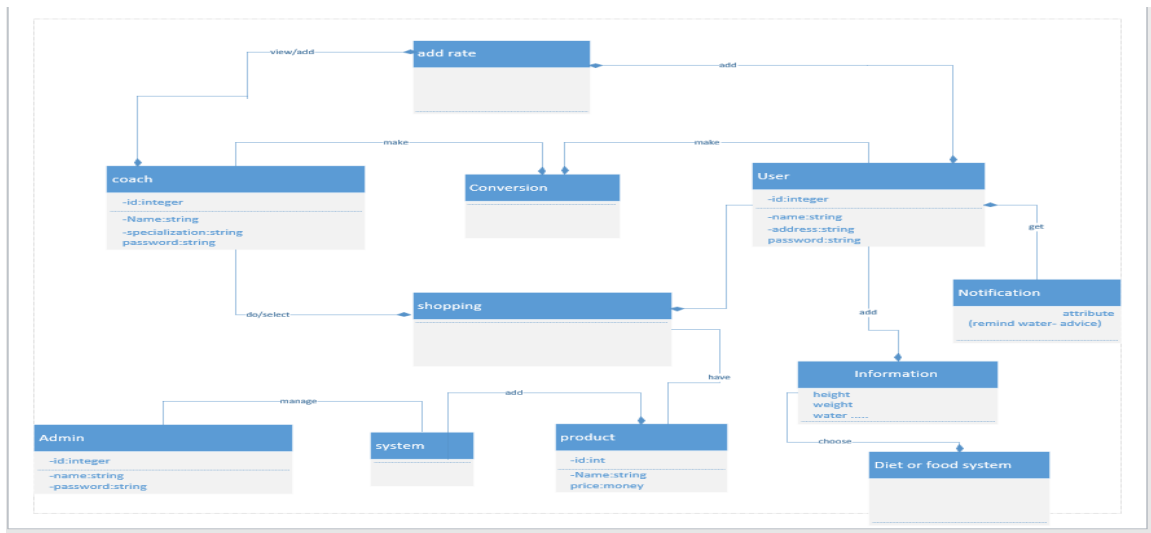
Precondition: there is sale underway

Post condition: the new attribute will update

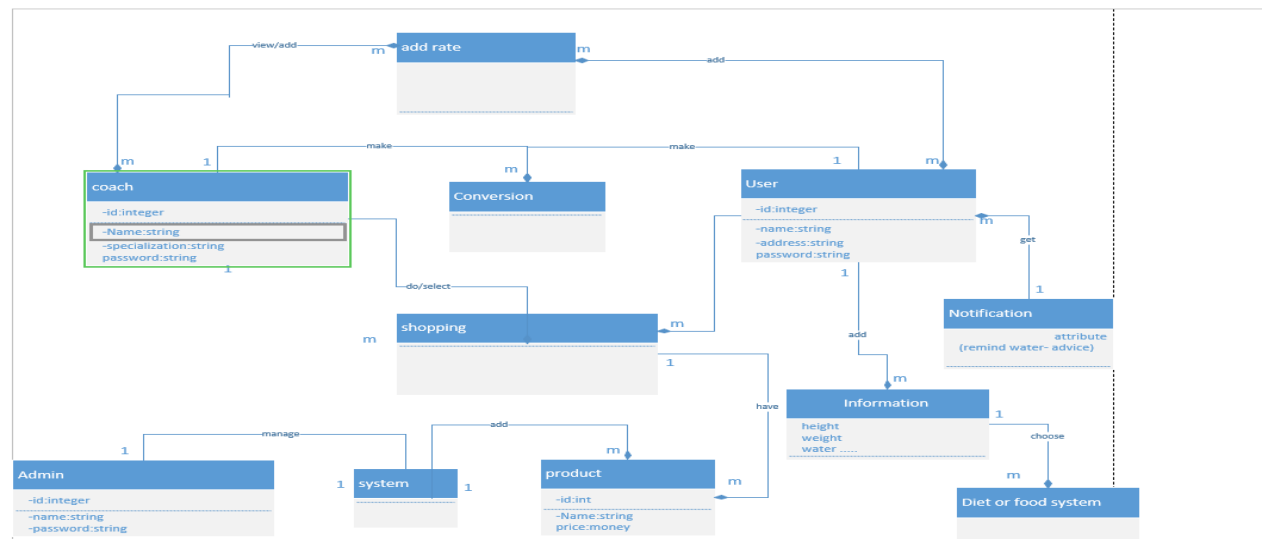
3.4 Conceptual Classes :

- ✓ Admin
- ✓ Notification
- ✓ Product
- X Chat
- ✓ System
- ✓ Shopping
- ✓ Rate
- X Type
- ✓ User
- ✓ Diet
- X Interests
- ✓ Conversion
- ✓ Information
- ✓ Coach

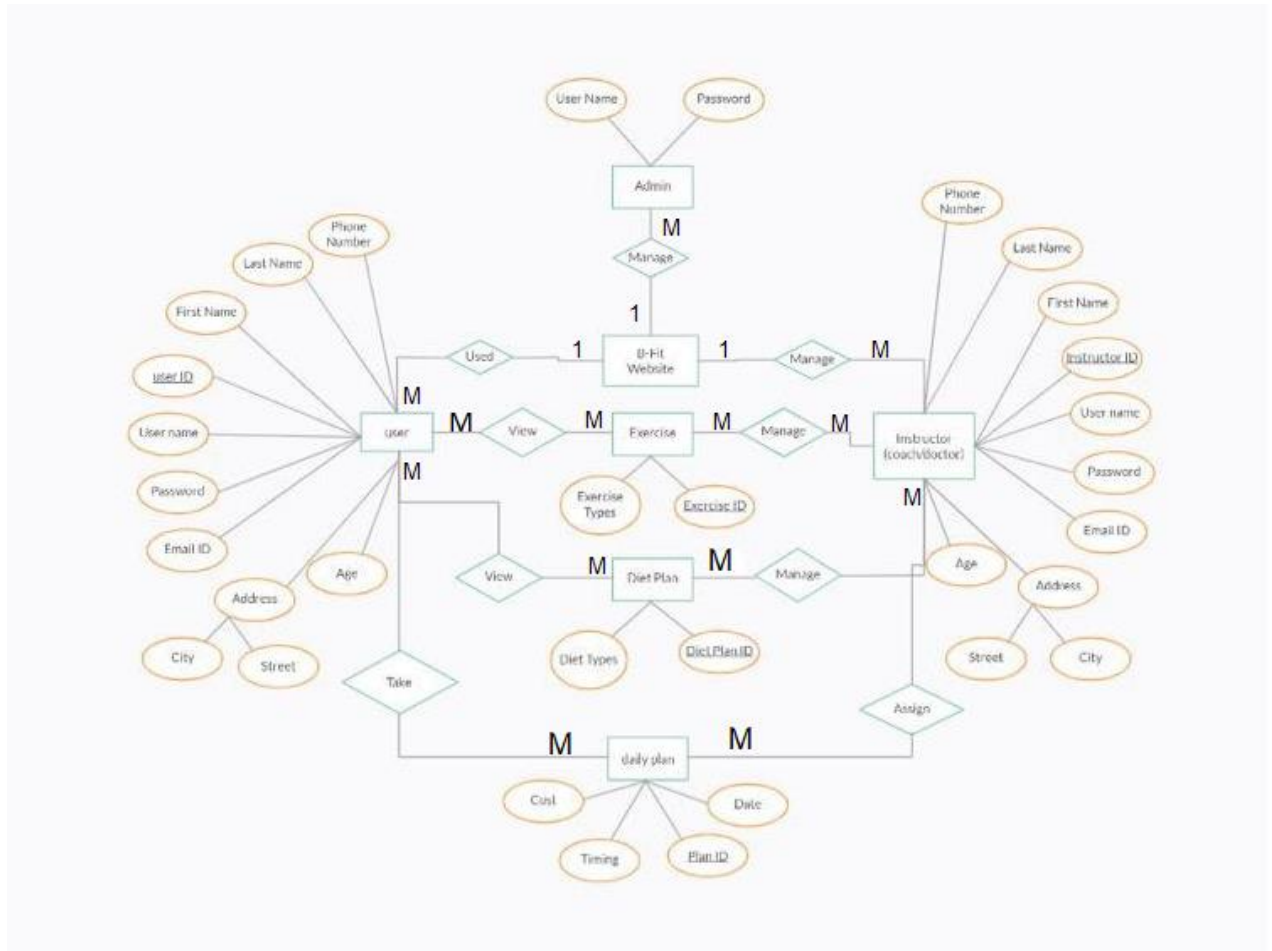
3.5 Domain Model



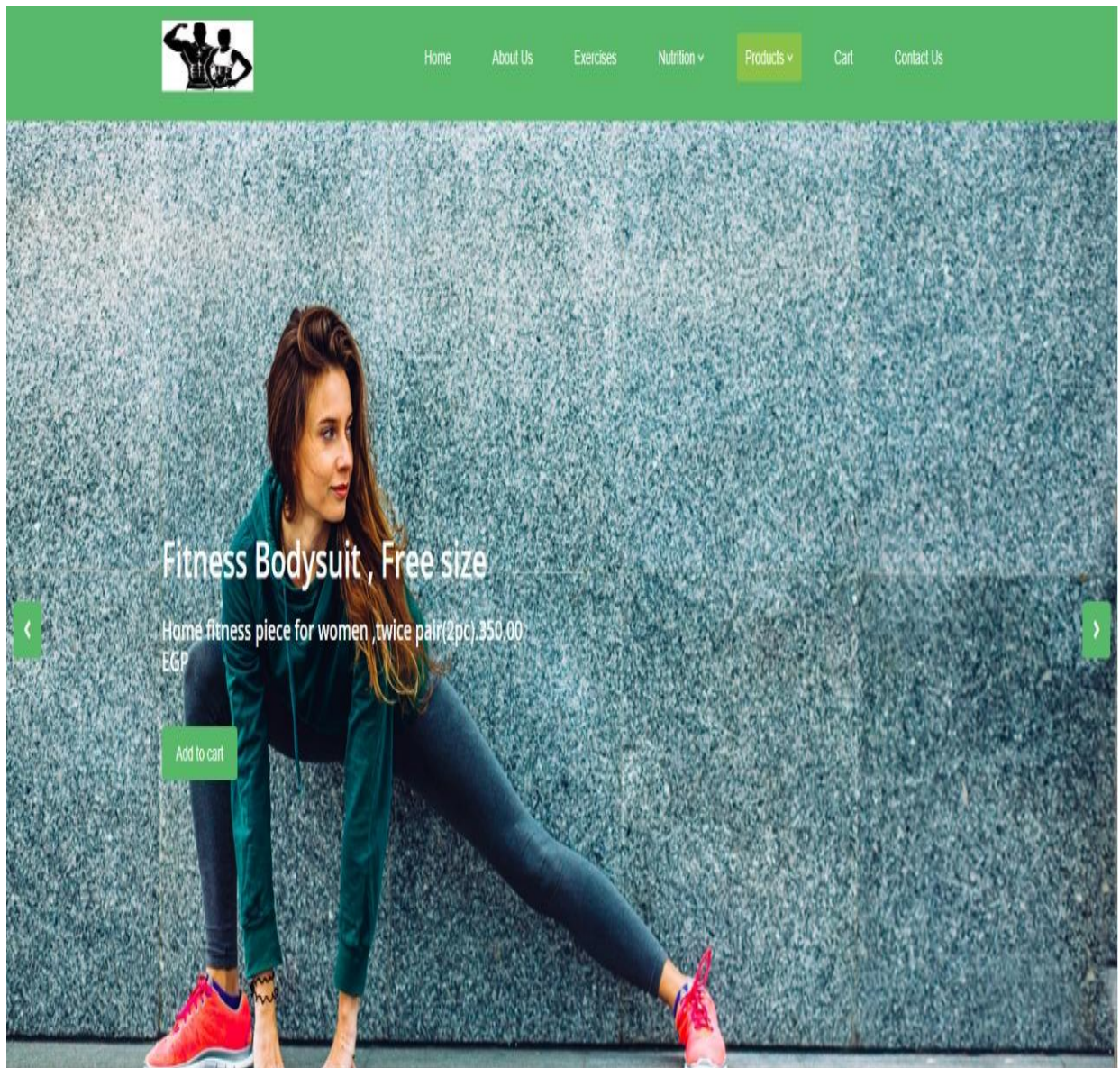
3.6 Design Class Diagram

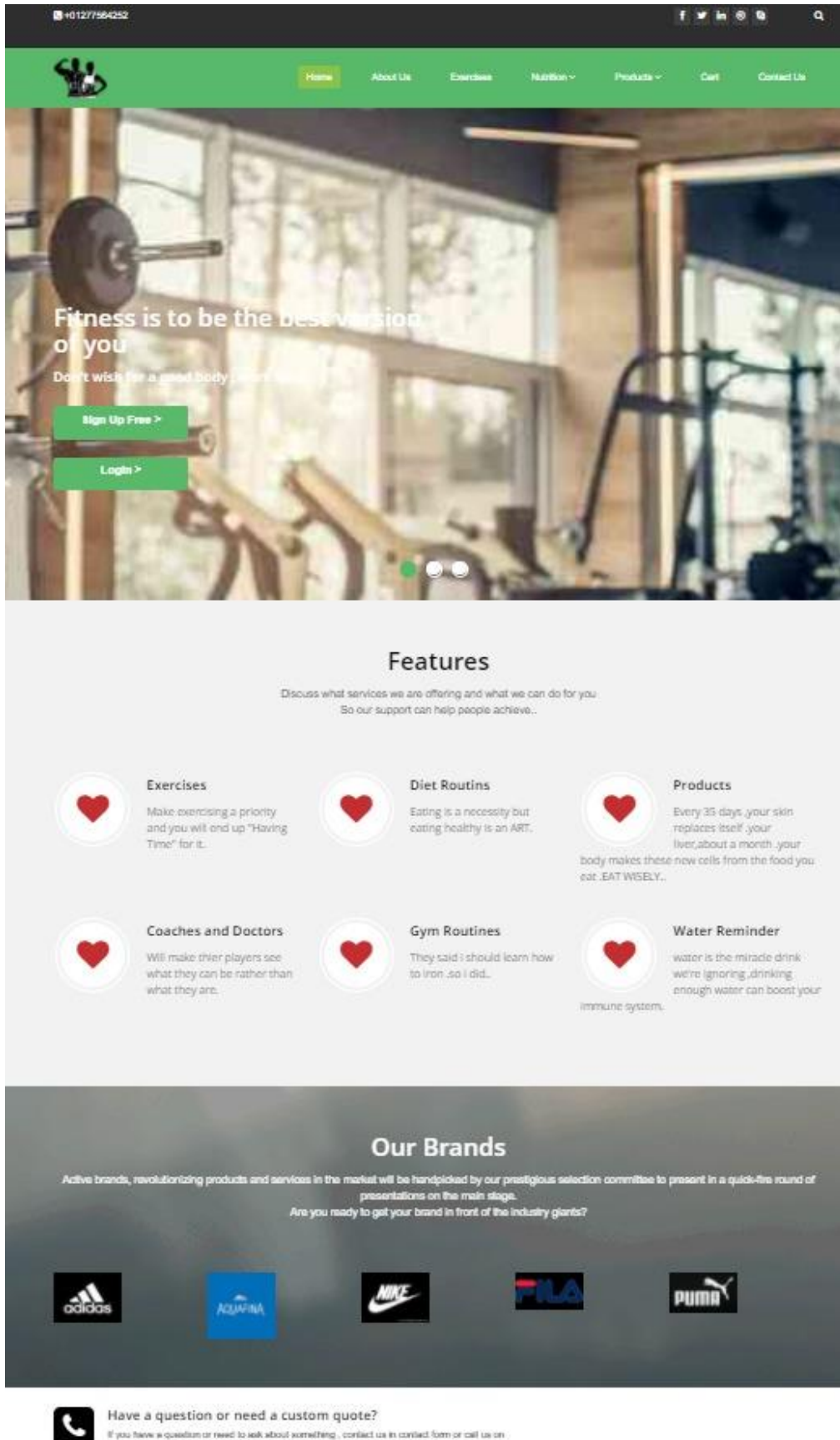


3.7 Entity Relationship Diagram



Chapter4 interface





Registrare !

firstly sign up to interest in more services with us.

Name *	Subject *
<input type="text"/>	<input type="text"/>
Email *	Message *
<input type="text"/>	<input type="text"/>
Password *	
<input type="text"/>	
Phone *	
<input type="text"/>	

SIGN UP

Welcome



enter username

enter password

Login

Forgot [Username / Password?](#)

Don't have an account? [Sign up](#)

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f

tw

in

ts

Q



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Insert your data below to calculate your recommended calories intake!

Gender

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Female

Age

Weight

Kg

Height

Cm

Exercise level /Activity

Basal Metabolic Rate

Calculate

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About B-Fit

Physical fitness is generally achieved through proper nutrition and moderate-vigorous physical exercise. B-Fit helps you reach the state of being fit and healthy by providing multiple diet plans and professional exercises, reminds you to drink water properly, provides all the products that you may need for your body health, and also routs any nearby GYM around you.



Our Skill

Our skills have been rated by well-known nutritionists and professional coaches.



Our Team

