Software Requirements Specification

For

Amhealthy project

Version 1.0 approved

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2021

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Tasks table

Mawaddah adm	Coordination, purpose, use case diagram. Context diagram, requirements, information gathering
Raghad kalbi	Requirement, activity diagram, information gathering
Rneem al-zhrani	Requirement, activity diagram, information gathering
Mriam bijali	Requirement, activity diagram, information gathering
Musleha al-nadawi	Requirement, Sequence Diagram, Class Diagram, information gathering

1.introduction

1.1 Document Purpose:

Many people suffer from laziness, obesity and chronic diseases

A lot of people want to follow a healthy, flexible and appropriate regimen and perform exercises to lose weight

And reaching the ideal body or to maintain health

However, due to the lack of trust in the sources, they suffer from the absence of anyone to guide them to the right path

Our idea is to find an app that provides what a person needs in terms of nutritional schedules - tips - and coaches

Participants can share their daily goals, dishes, etc. and become a healthy miniature community

1.2 sub systems

1.2.1 coaches sub-system

Sign up / Log in

Receiving subscribers -

Create schedules for subscribers Follow up

the progress of the participants Include

challenges among the participants -

1.2.2 user sub-system

Sign up / Log in

Choose a coach

paying off -

Update health information (weight and body changes) -

Participate in challenges -

Share sports progress Share

photos and information -

1.2.3 admin sub-system

.Allow user to register/log in

Inclusion of trainers available to the user

Ensure payment processes are made by users when participating with coaches

- .Dealing with software updates
- .View and update accounts

Solve software problems

2. SYSTEM SPECIFICATIONS

2.1 Information Gathering:

- ? Who are the targets
- ? What programming languages do you use .2
- ? What are the system characteristics .3
- ? What are the system services .4
- ? What are the system limitations .5
- ? Is there sensitive information that needs to be encrypted .6
- ? What kind of data will be stored in the database .7
- Is there a time period for the data to be transferred to .8
- ? Archives
- ? How do you prefer the user interface .9
- ? What platforms does the system support .10

What is the expected number of system users? (This is .11

- ?)In augmentation
- ? Can you summarize the system for me in just a few sentences .12
- ? What is the budget .13
- ? Need iOS and Android system designs .14

3. system Requirements

3.1 functional requirements

3.1.1 the user subsystem

1	The user shall b	e able to	1.1 The system shall ask first if he is a trainer or trainee, then the users enter his information (first name, last name, email, password, phone number, the gender) for signing up. 1.2 The system shall make sure that that the password should be at least 8 digits between characters & numbers with at least one capital character 1.3 The system shall send the verification code to the user phone number and the system will give him 30 sec to re-send to check if the number is correct and the user owns it. 1.4 The system shall ask the user to choose his
			the user to choose his username

2		2.1 The system asks the user for height, weight, and date of birth 2.2The system asks the user about the goal (losing weight, gaining weight) 2.3 The system calculates the calories for the user 2.4 The system asks the user if he wants to register with a trainer or not
3	The user shall be able to choose a coach	3.1 The system shows available trainers 3.2 The user chooses the desired coach and sends a join request
4	The user should be able to pay if he chooses to sign up with a coach	4.1 The system asks for the user's card number 4.2 The user enters the amount to be paid 4.3 The system sends a message containing a verification number to the phone number registered in the system and gives it one minute to enter the number 4.4 Payment is processed by the system 4.5 The system sends a message to the user to complete the payment process
5	The user shall be able to send messages to the Coach.	5.1 The system shall send all messages to the trainer and send it in order according to the time and date.

6	The user shall be able to receive messages from the trainer user.	6.1 The system shall give the user all messages the trainer sends in order According to time and the date of it. 6.2 The system shall send notifications.
7	The user receives the schedule from the coach	7.1 A notification is sent to the user with his schedule
8	The user shall be able to modify and update his personal information	8.1 The system allows the user to log in to his personal page 8.2 The user can post photos and share their health progress with others 8.3 The user can only update his vital information and share it with coach
9		9.1 The system sends a notification to the user that there is a new challenge 9.2 The user enters the challenges page 9.3 The challenge data is shown to the user 9.4 The system asks the user if he wants to join the challenge or not 9.5 If approved, the user can share his progress in the challenge with the coach and the rest of his friends
10	The user shall be able to rate trainer	10.1 Upon the end of the training period with the coach

	The system displays trainer evaluation
11	11.1 The system shall save his username and password if the user chooses to save info.

3.1.2 the coach subsystem

1	The user shall be able to sign up or log in	1.1 The system shall ask first if he is a trainer or trainee, then the users enter his information (first name, last name, email, password, phone number, the gender) for signing up. 1.2 The system shall make sure that that the password should be at least 8 digits between characters & numbers with at least one capital character 1.3 The system shall send
		the verification code to the user phone number and the system will give him 30 sec to re-send to check if the number is correct and the user owns it. 1.4 The system shall ask the user to choose his username
		1.5 The system requests a CV for the coach
2	The trainer shall be able to see available subscribers	2.1 The system shows a page for the trainee that contains the requests submitted by the users 2.2 The trainer can see each user's information 2.3 Each user has an accept button and a reject button 2.4 In the event of rejection or acceptance, a notification will be sent to the user

3	The trainer must be able to list schedules for trainees	3.1 The list of persons accepted by the trainer appears 3.2 There is a button for the trainer to enterthe training schedule as a PDF file 3.3The system sends a notification to the trainee regarding the availability of the nutritional schedule
4	The coach shall be able to follow the participant	4.1 A list of the participants appears with the trainer 4.2 The trainer can follow their own updates between him and them 4.3 The trainer can evaluate the subscribers on a weekly basis according to their updates
5	The trainer must be able to add challenges to the participants	5.1 The system brings up a page for challenges 5.2 The trainer inserts the challenge 5.3 The coach determines the start and end times

3.1.3 the admin sub-system

	T	
1		1.1 A notice appears to the management of the presence of a new coach 1.2 The system shows the trainer's complete information with his CV 1.3 Approval or rejection is made by the administration 1.4 The system sends a notification to the coach of the acceptance or rejection
2		2.1 the admin shall update the system if there is any 2.2 the system shall notify the user about update

3.2 non-functional requirements

3.2.1 Program Quality

Program quality features should be prioritized as follows:

- .Accurate and therefore reliable •
- .Believer •
- .high performance •
- .Compatibility •

3.2.2 Usability

Users must be able to navigate the system without the need to do so •

- .Intensive training
- .User interface should be clear without any design complexity

3.2.3 Safety requirements

.Two servers, one of which should be a master server and one backup server •

If at any time someone breaches their login information •

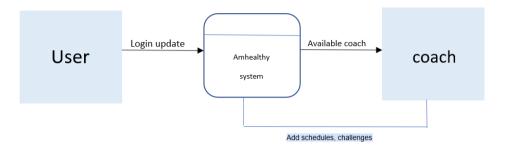
The credentials, he / she must inform the system administrator

3.2.4 Security requirements:

- .The administrator will only see and manage the account of all members •
- No one can log in to the system without a username and password •
- .Regular system users cannot access the administrator or coaches login •

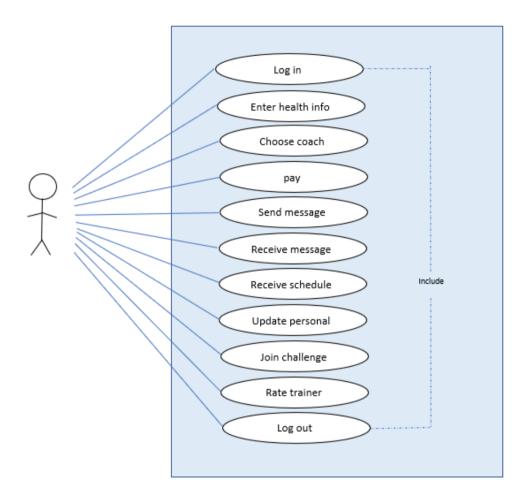
4.System models

4.1 context Diagram

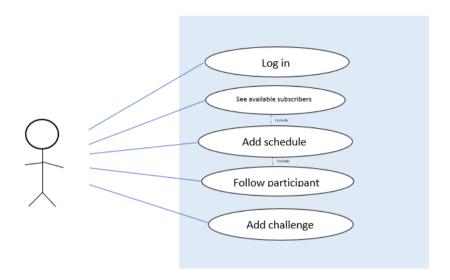


4.2 Use Case Diagram

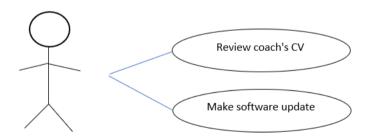
4.2.1 user cub-system



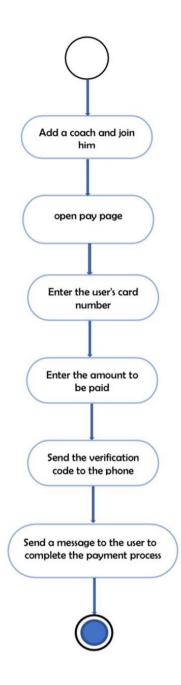
4.2.2 coach sub-system

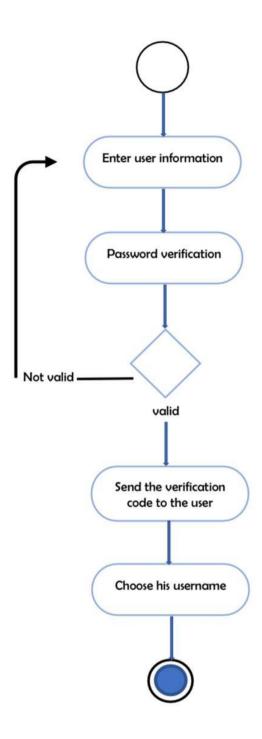


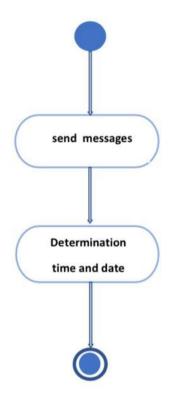
4.2.3 admin sub-system

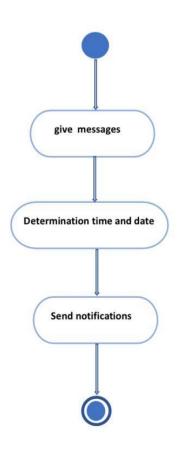


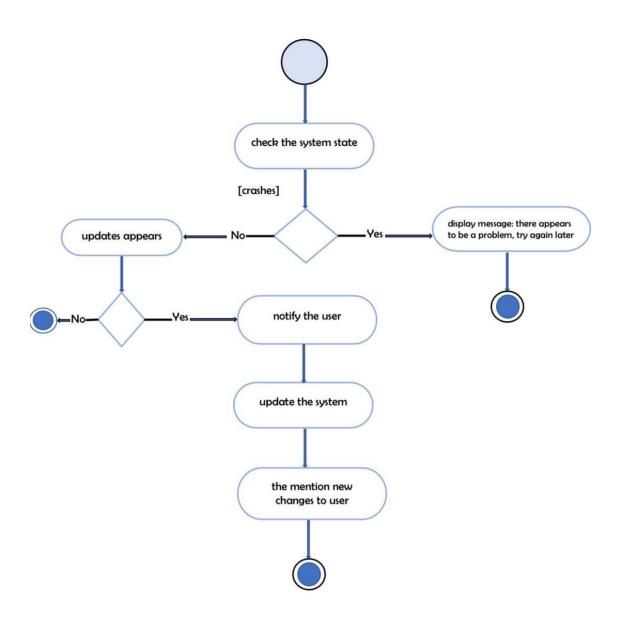
4.3 Activity Diagram

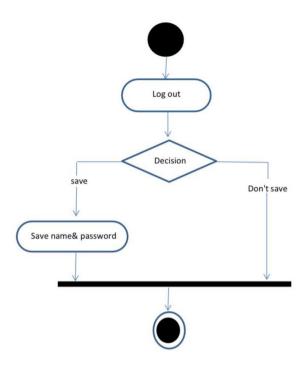


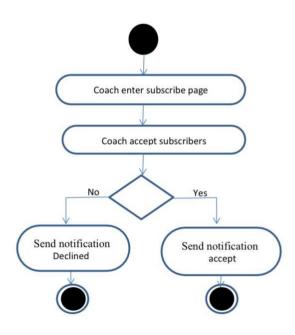


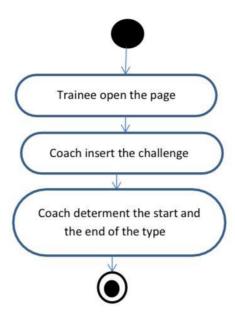


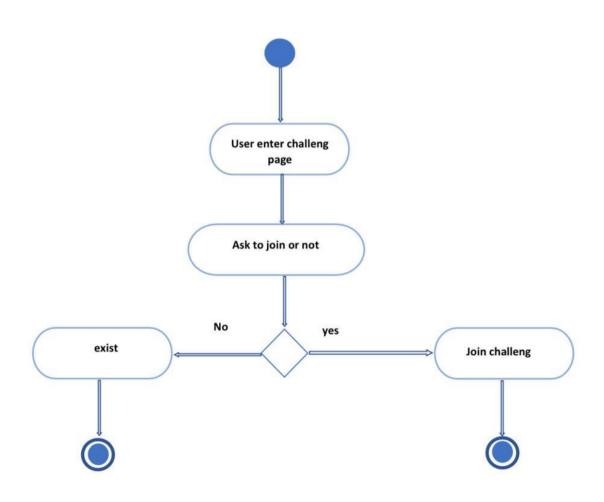


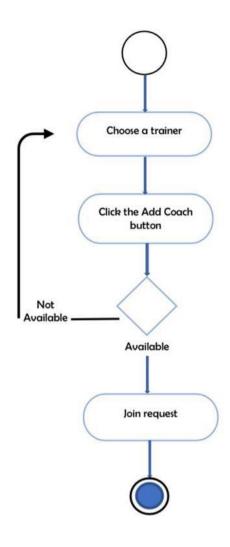




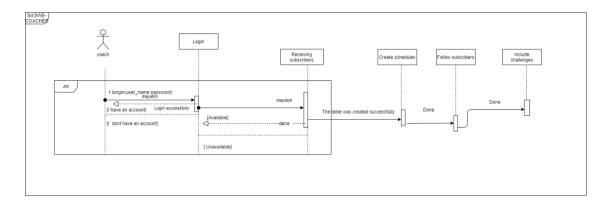


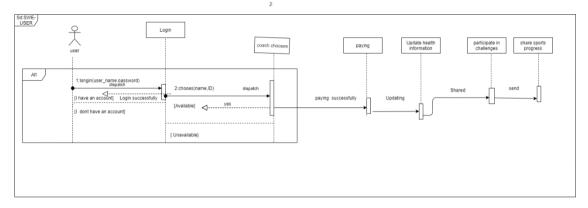


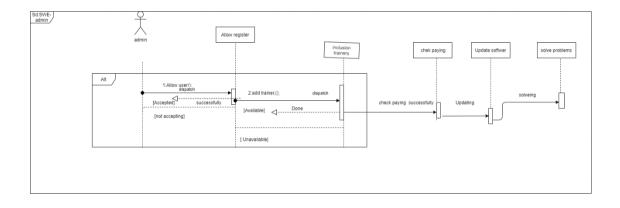




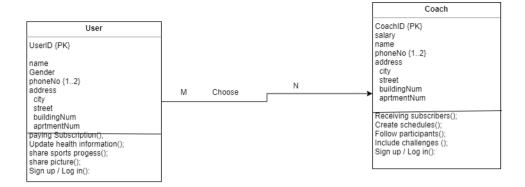
4.4 Sequence Diagram







4.5 Class Diagram



Administration	
custCod cost	{PK}
	Allow user to register / log in():
	Add a trainer():
Inclusio	n of trainers available to the user():
'Update	e software():
Solve	software problems():
check or	n the payment process():
Add us	er():

User	Registration, then he chooses the trainer he
USEI	wants and pays his cost, and he is able to
	participate in the evaluation of his
	information, and also attend training
	sessions with his coach
trainer	logs in or creates an account if it is newly
tranier	joined, can communicate with users, accept
	selection requests from users, and also
	create schedules and follow up users
Administration	The administration verifies acceptance of
Administration	subscription, payment, user deletion, and
	instructor deletion