Green Life

CCSW 223 Lab1

[CJW]

Lab1

Student Name	Id	Tasks
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Noor Nedal Shaladan	1905477	
Israa Waleed Bamarouf	2211682	
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Group Leader:

Mann As Salamah

Editor:

Israa Bamarouf

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Problem Definition

One of the most essential habits that every woman should cultivate is the pursuit of a healthy lifestyle. Balancing duties as a mother and a businesswoman might find it challenging to fit in exercise and a healthy lifestyle. Having said that, most mothers cannot attend the gym continuously for many reasons, including the time they spend making meals and caring for their children. These duties are tough to get done in one day, especially for mothers and businesswomen.

Green Life is an e-service that helps to encourage individuals to develop a healthy lifestyle. Furthermore, establishing an e-service allows beneficiaries to obtain health consultations from nutritionists and trainers who operate around the clock.

Essential Functionalities

• Subscriptions and Membership of different gyms

• Personal trainers that provides multiple services

• Registration of members

• Delivers healthy meals

• Nursery school to take care of the children

• Providing a body mass index (BMI) calculator

• Providing transportation to and from the gym

 • Easy payments methods

Green Life

CCSW 223

Lab 2 Information Gathering

[CJW]

Student Name	Id	Tasks
Joud Muzahim	2212477	
Jana Shalabi	2212884	
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Group Leader:

Mann Assalamah

Editor:

Revisor:

Notes:
- *Each student will conduct at least 2 interviews*

- *Interviewee could be a potential user or customer or technical person when needed*

Interview Description

Our aim is to build an app based on the obstacles and opinions of other women regarding building a healthy lifestyle.

Questions include:

- *-What are the obstacles that are stopping you from taking a step towards building a healthy routine?*

- -What do you think will help you stick to healthier habits even through busy days?

- - Are there certain time management issues or scheduling conflicts that interfere with your ability to allocate time for gym workouts or exercise?

- -Is having your meals ready-made for you would help you to build a healthy lifestyle ?

- -Do you think having a one-pass access to more than one gym can motivate you to start working out?

- - What services do you think will make it easier for you to build or maintain a healthy lifestyle?

- -Does taking care of your children hinder your healthy life?

- -Do you need reliable advice from nutrition and sports experts?

Interview Analysis

Interviewer	Interviewee	Analyst Comment
Joud Muzahim	Mayar AlDahri Age :30 Employee at Al Fursan Sara Muzahim Age:26 Medical Student	One of the obstacles that the Interviewee faces is when she decides to take a step forward it's most likely there's no one that could take her to the gym and bring her back. Having kids is also another obstacle as a working woman she goes back home and starts helping her kid with homework's she's also always looking for new activities so that the kid won't get bored doing all that and being discipline is something she struggles with even though the Interviewee is motivated and determined to try her best. Having a babysitter or a nursery would help being consistent so the Interviewee could workout without feeling like she left her child out and knowing that there's someone who's trustworthy that's taking care of the kid. One pass gym is a great idea for someone who works in different branches it would definitely make a huge difference. A consistent plan would help tremendously because for the Interviewee having a clear plan in front of her will help to stick to it even if the Interviewee is busy. while being busy the Interviewee never restricts from eating what she craves but she tries to eat as healthy as possible even though it's challenging so having a nutritionist and ready meal plans would make the process easier.

Jana Shalabi	Jumana Shalabi Age: 23 Employee at IMC Hospital Esraa Ghouth Age:30 Mother of two	In summary of questions asked, users of the application identify time management and childcare obligations as potential hurdles to developing a healthy routine. They value and think it is a must services that make healthy living easier, such as expert counsel. Ready-to-eat meals, easy access to gyms, and user-friendly app features are viewed as facilitators of a better lifestyle. Overall, users are optimistic about the application's ability to help them on their health journey.
Israa Bamarouf	Coach Pinky Age: 32 Personal trainer at Serene GYM Angie Age: 35 Customer Service at Cambridge Weight Plan 18 Sept	After interviewing two people engaged with healthy lifestyles either by being a coach or a customer service at company that offers flexible weight loss programs. Here is a summary of their answers To maintain better habits during hectic days, it is necessary to plan ahead of time and keep the desire and motivation to do so. Obstacles such as a packed gym schedule and a lack of sleep, particularly for working moms, may prevent progress to establish a healthy routine. Time management challenges and scheduling conflicts, such as not having personal training time owing to a hectic schedule or feeling exhausted from several jobs and a lack of sleep, exacerbate the difficulty of allocating time for exercise. Having ready-made meals for a few days in advance and planning meals for the full week, especially when on a budget, can help maintain a healthy lifestyle. While having access to many gyms may encourage some people, the most significant factor is personal willpower, not the number of gyms enrolled. Additional services, such as purchasing nutritious food at a discount and receiving a free year membership, will help people to establish and maintain a healthy lifestyle. Finally, trusted advisers from nutrition or sports specialists, as well as instruction from gym instructors on proper workouts and posture, can be quite beneficial.
Noor Nedal	Fatima Ahmad Age: 28 Mother of 3 children	One of the obstacles that the Interviewee faces is time management, and she thinks services will help to build and maintain a healthy lifestyle, she spends a lot of time with her children and Prepares a

	16 Sept Leen Hamdi Age: 20 University student 18 Sept	healthy meal. Easy transportation makes it easier for her to build a healthy routine. Having someone else as a support person can make all the difference in keeping up healthy habits. yes, she needs reliable advice from nutrition and sports experts to schedule regular checkups with them to monitor her progress and for that extra push, you may need to keep going. One of the most difficult parts of trying to improve her health while working and studying is eating healthy kinds of foods. When she doesn't have a lot of time. And the obstacles like commuting, finding a gym that suits her, and the restraint of operating hours. She put a reminder in her planner or calendar to help in stick to healthier habits even through busy days. she thinks membership in a gym can be motivating, there's also the boost you get from working out around other people. Measure and Watch The Weight, Keeping track of her body weight on a daily or weekly basis will help her see what she's losing or what she's gaining. she needs reliable advice from nutrition and sports experts to build her health routine and diet To achieve top performance.
Mann Assalamah	Asil Assalamah Age: 26 Pilot at Flynas Meral Alnuwaimi Age: 20 2nd year medical student	- The crowded gym and the lack of trainers to help people with the correct exercises. -Planning the right diet for the body needs - A supporting group, and when there are no obstacles that hinders, such as crowding of sports equipment and waiting for a long time. -Ready-meals that are prepared with well variety - For the current situation, the job and the university are an obstacle because of the shortage of time and the stress, unless the atmosphere of the place encourages exercise. -Going to the gym during the exam's season

		- Of course, the calculated ready-made meals will regulate the time and expenses, and this will reassure that the daily calories are not exceeded
		- A wonderful idea for the type of clubs that we will participate in, and it gives the right to choose and experience more than one club, but it will depend on the implementation of the idea whether it is good or not.
		- Food service and personal trainer may be needed by many people and beginners in the field of sports
		- no children at the time, so there is no obstacle regarding this matter
		It is necessary to have a personal trainer who supervises the exercises, because many and most people's obstacle is the fear of doing the wrong exercises. Most clubs ask for additional money, which may not bring much benefit.
Shahad faisal	Layal jamal Age :21 AI student

Raghad faisal Age:25 Medical Student | What are the obstacles that are stopping you from taking a step towards building a healthy routine?

Actually preparing a healthy meals takes my time also the responsibilities of having a child it is difficult to balance between a healthy lifestyle and having a child.

-What do you think will help you stick to healthier habits even through busy days?

A difinite schedule and meal to stay on track. Progress is slow and needs patience so consistently is key. Its very important to keep track

- Are there certain time management issues or scheduling conflicts that interfere with your ability to allocate time for gym workouts or exercise?

Yes, I have a lot of problems making time to reserve workout times

-Is having your meals ready-made for you would help you to build a healthy lifestyle ?

 Yes because it saves time also the most popular problem to start a healthy lifestyle is the food not the workouts |

| | | -Do you think having a one-pass access to more than one gym can motivate you to start working out?

Of course, as most of the reasons that prevent me from going to the gym are the difficulty of access

- What services do you think will make it easier for you to build or maintain a healthy lifestyle?

Easy access, advance gym reservations, healthy meals, and health consultations from health experts

-Does taking care of your children hinder your healthy life?

Yes sometimes it does, kids require full attention and a lot of responsibilities and sometimes that gets in the way of my regular gym visits and having time to prepare healthy meals

-Do you need reliable advice from nutrition and sports experts?

Yes of course, some general sports nutrition guidelines is helping you to achieve your health goals your diet should be based on a variety of factors including your age, weight and the type of exercise you are doing. So you have to take advice from your nutrition and sports experts to do it right without problems

-How do you think our application is going to help you?

It will help me book my favorite appointment during the day, in addition to seeing my health information clearly and easily.

-Is there anything you would like to add?

No, Thanks for this good interview . |
|---|---|---|

Title

CCSW 223

Lab 3 Planning Phase 1

Purpose – Goals – Preliminary Report

[CJW]

Student Name	Id	Tasks
Joud Muzahim	**2212477**	
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Noor Nedal	1905477	
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Group Leader:

Mann Assalamah

Editor:

Israa Bamaarouf

Revisor:

Jana Shalabi

LAB3-Purpose – Goals – Preliminary Report	
Grading Policy	
Clear **background** description	1

clear describtion of **goals**	1
Problems, Findings, Recommendations	3
Cost & schedule estimates	3
Scintific writing style	1
Good writing format (punctuation, paragraph alignment, font size,...)	1
Total	**10**

The purpose of the project

Content

We face many problems related to maintaining a healthy life, such as preparing healthy meals and providing transportation. This program provides all the needs of a healthy life for all users, even mothers who have problems with babysitting their children. As the user can book gyms and request there own meal and transportation as well.

Motivation

Never back down, never give up.

Considerations

Many people struggle with organizing their healthy lives for many reasons. Therefore, this program is developed and created so that clients would accomplish their goals in the easiest most accessible way possible.

b. Goals of the Project

To help you build your healthy life in an easy and motivating way.

The problem:

One pass is an application that allows users to get a one pass to the gym or a discount. Although it's similar to the one we are trying to build it lacks a lot of features the problems listed below are some of them. people find it hard to multitask and take care of their health that most of them neglect their health which does not include eating healthy only but has many other aspects such as working out, taking time for themselves, building healthy habits instead of it just being a "diet" that they will give up on later.

Transportation is one of the many obstacles that people usually face, having a gym that doesn't include packages that all customers can properly use and services that are not worth what they are paying for.

Crowded gyms, to the extent that you can't use what you're paying for, quality over quantity should be an important aspect too. Parents care for and love their children. Their safety is the number one priority. Going to the gym and leaving them alone can be difficult if no one can take care of them and make sure they're safe and sound**.**

Even if one went to the gym their knowledge of the exercises they should do, the right form of each exercise, and how many reps/sets and rest time they should take is very limited to a busy person.

Preparing healthy meals is another obstacle to someone who's working they usually binge eat because of the pressure although people try to cook being occupied results in either being stressed due to the last-minute decisions of what to eat.

Bulking is an effort to gain weight quickly, preferably in the form of muscle, by consuming more calories than your body needs combined with a training program designed to promote muscle accrual. If a person wants to bulk the process needs a strict diet without ready-made meals it can be very difficult to achieve it.

Findings:

- **The customer may not need all these services**
- Many features may make the application complex and burdensome for the customer.
- The target group of the application is few.
- Customers are more interested in fixing and solving GYM problems than the application itself.

Recommendation or proposed solution:

- The solution to the problem is to create packages for the program's subscription, a package that only includes entry to the gyms, and other packages that include the rest of the available services.
- To make the application more user-friendly to the customer, we make the user interface as simple and clear as possible to attract customers' attention and interest.
- Offers and advertisements attract the largest number of people while mentioning the idea of our application and its importance in changing people's lives.
- Our application may be the most appropriate solution to this problem, because our goal is to make customers' lives easier while ensuring that we will contract with the best gyms available.

Cost & schedule estimates:

The estimated costs and schedule for the project are outlined as follows. In terms of costs, the project involves human resources, including positions like Manager, Web Developer, Software Engineer, Software Developer, End Developer, and Designers, each ranging from 10,000 to 60,000 Saudi Riyals. Additionally, software expenses encompass virtual machines, programming applications, and server systems, potentially incurring monthly costs starting from 1000 SR. Hardware requirements include servers, specialized computers, printers, and telecommunication equipment, with estimated costs ranging from 5,000 to 15,000 SR. Regarding the project schedule, it spans from September 20th, 2023 to December 19th, 2023. The tasks encompass defining the project, problem definition, information gathering, deciding solutions, setting aims and targets, scoping, planning, analysis and software requirements, design, and development, concluding with the closing phase. Each task is allocated a specific duration, starting and ending date, allowing for a structured and time-bound approach to project completion.

Project Estimated Costs.

Resources	Unit	Estimated cost
Human Resources	Manger – 2 Web Developer – 3 Software Engineer – 2 Software Developer – 1 End Developer – 2 Designers	10,000 - 60,000 SR
Software	Virtual Machines – Programming Application – Server System	1000 SR+ per month (potentially much higher depending on the scale)
Hardware	Servers – Specialized Computers – Printer – Telecommunication equipment	5,000 to 15,000 SR

Project Estimated Schedule:

Tasks	Estimated duration	Start date	End date
Define the project	6 days	20/9/2023	26/9/2023
Problem Definition	1 day	20/9/2023	21/9/2023
Information Gathering	2 days	21/9/2023	23/9/2023
Decide Solutions	2 days	23/9/2023	25/9/2023
Set Aims and Targets	1 day	25/9/2023	26/9/2023
Scope	8 days	26/9/2023	6/10/2023
Planing	4 days	26/9/2023	30/9/2023

Determine project scope	1 day	1/10/2023	1/10/2023
Secure project sponsorship	1 day	1/10/2023	2/10/2023
Define preliminary resources	1 day	2/10/2023	5/10/2023
Secure core resources	1 day	5/10/2023	6/10/2013
Analysis/Software Requirements	15 days	6/10/2023	26/10/2023
Conduct needs analysis	5 days	6/10/2023	13/10/2023
Draft preliminary software specifications	3 days	13/10/2023	16/10/2023
Develop preliminary budget	2 days	16/10/2023	20/10/2023
Review software specifications/budge with team	1 day	20/10/2023	20/10/2023
Incorporate feedback on software specifications	1 day	21/10/2023	21/10/2023
Develop delivery timeline	1 day	22/10/2023	22/10/2023
Obtain approvals to proceed (concept,	4 hrs	23/10/2023	23/10/2023
Secure required resources	1 day	23/10/2023	26/10/2023
Design	16 days	26/10/2023	13/11/2023
Review preliminary software specifications	2 days	26/10/2023	28/10/2023
Develop functional specifications	5 days	28/10/2023	4/11/2023
Develop prototype based on functional specifications	4 days	4/11/2023	10/11/2023

Review functional specifications	2 days	10/11/2023	12/11/2023
Incorporate feedback into functional specifications	1 day	13/10/2023	13/11/2023
Obtain approval to proceed	1 day	13/10/2023	13/11/2023
Development	45 days	15/11/2023	19/12/2023
Review functional specifications	2 days	16/11/2023	17/11/2023
Identify modular/tiered design parameters	1 day	17/11/2023	18/11/2023
Write Code	28 days	18/11/2023	13/12/2023
Developer testing	9 days	25/11/2023	14/12/2023
System Testing	3 days	14/12/2023	17/12/2023
Write manuals	1 day	17/12/2023	18/12/2023
close	1 day	18/12/2023	19/12/2023

Green life

CCSW 223

Lab 4 Planning Phase 2

Feasibility study – Project Plan

[CJW]

Student Name	Id	Tasks
Joud Muzahim	**2212477**	
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Shahad faisal	2210076	

Group Leader:

Mann Assalamah

Editor:

Israa Bamaarouf

Revisor:

Jana Shalabi

Feasibility study

1   Problem Definition:

Generally, people find it hard to multitask and take care of their health that most of them neglect their health which does not include eating healthy only but has many other aspects such as working out, taking time for themselves, building healthy habits instead of it just being a "diet" that they will give up on later.

Transportation is one of the many obstacles that people usually face, having a gym that doesn't include packages that all customers can properly use and services that are not worth what they are paying for.

Crowded gyms, to the extent that you can't use what you're paying for, quality over quantity should be an important aspect too. Parents care for and love their children. Their safety is the number one priority. Going to the gym and leaving them alone can be difficult if no one can take care of them and make sure they're safe and sound.

Even if one went to the gym their knowledge of the exercises they should do, the right form of each exercise, and how many reps/sets and rest time they should take is very limited to a busy person.

Preparing healthy meals is another obstacle to someone who's working. They usually binge eat because of the pressure although people try to cook being occupied results in either being stressed due to the last-minute decisions of what to eat.

Bulking is the attempt to rapidly gain weight, preferably in the form of muscle, by consuming more calories than the body needs, combined with an exercise program designed to promote muscle accumulation.

If a person wants to enhance this process, he needs a strict diet without ready meals, which can be very difficult to achieve.

2   Scope Objectives of "Green life":

It is a program that helps build a healthy life, as it contributes to reducing time and effort in maintaining a healthy lifestyle by providing the possibility of booking gyms and healthy meals, as well as obtaining consultations from health experts and many other services.

3   Alternative Solutions:

One of the alternative solutions is to add a feature to an existing system, for instance we could add a package of services to a regular gym membership. On the other hand, we could build

an entire system to avoid any conflicts that may appear while only adding services to the existing system. Besides, we can do nothing and keep it as it is.

4   Cost And Benefits of Alternatives:

Alternatives	Cost	Benefits	Drawbacks
Adding a package of services to a regular gym membership	*About 1,000 SR - 5,000 SR*	1. Revenue Boost: 2. Customer Retention 3. Cost-Efficiency	1. Increased Cost for Members 2. Staffing and Expertise 3. Potential Confusion for Members 4. Space and Resource Allocation
Constructing a complete system to prevent potential conflicts, all the while solely incorporating additional services into the current system.	About 10,000 - 60,000 SR	1. Comprehensive Solution 2. Cost-Effectiveness 3. Conflict Prevention 4. Long-term Efficiency and Scalability	1. Resource Intensiveness 2. Overlapping Functionality 3. Maintenance Challenges 4. Regulatory Compliance
Doing nothing and keeping it as it is.	*No cost*	1. Cost-saving in the Short Term 2. Maintaining Current Profit Margins 3. Risk Mitigation (if applicable)	1. Customer Dissatisfaction 2. Competitive Disadvantage 3. Missed Opportunities

5   Software Impacts:
There is no system that we will add to. We will build our own system.

6   Potential Changes in the Organization:
This program will allow those with weak willpower or those **insufficient for** guidance and simplification to adopt a healthy lifestyle consistent with their practical

and everyday way of living. We designed our program for those who want to change but need assistance and those who are busy and require plenty of time to adopt healthy habits.

7 Recommended Alternative of the Course of Action:

We chose to build an entire system to avoid any conflicts that may appear while only adding services to the existing system.

Project plan

		Task Name	Duration	Start	Finish	Resource Names	
1		**Software Development**	**90 days**	**20/9/2023**	**2/11/2023**		C
2		**Define the project**	**6 days?**	**20/9/2023**	**26/9/2023**		1
3	◈	Problem Definition	1 day	20/9/2023	21/9/2023	Management	C
4	◈	Information Gathering	2 days	21/9/2023	23/9/2023	Management	8
5	◈	Decide Solutions	2 days	23/9/2023	25/9/2023	Management	8
6	◈	Set Aims and Targets	1 day	25/9/2023	26/9/2023	Management	C
7	◢	**Scope**	**8 days?**	**26/9/2023**	**6/10/2023**		4
8	◈	Planing	4 days	26/9/2023	30/9/2023	Management	2
9	◈	Determine project scope	1 day	1/10/2023	1/10/2023	Management	C
10	◈	Secure project sponsorship	1 day	1/10/2023	2/10/2023	Management	8
11		Define preliminary resources	1 day	2/10/2023	5/10/2023	Project Manager	8
12		Secure core resources	1 day	5/10/2023	6/10/2013	Project Manager	8

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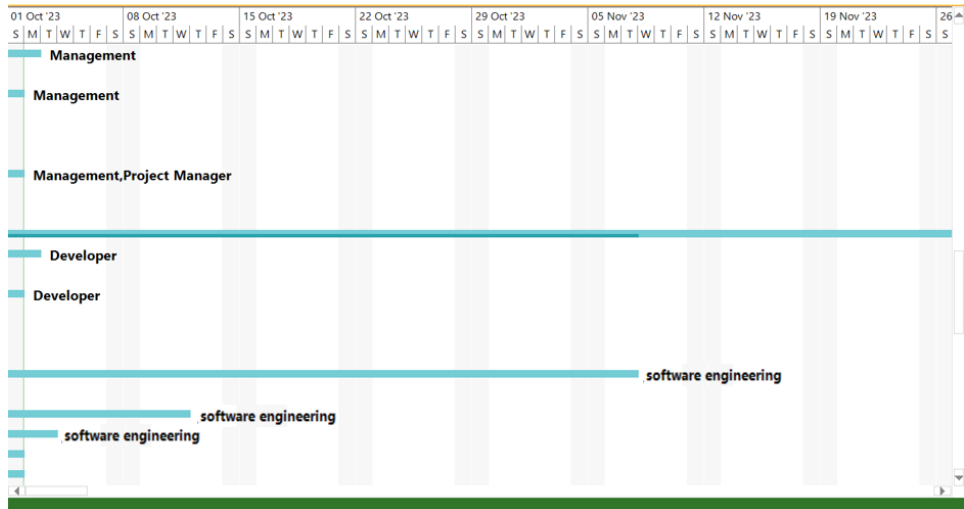|		Task Name	Duration	Start	Finish	Resource Names	
13		Scope complete	0 days	6/10/2023	6/10/2023		C
14	◢	**Analysis/Software Requirements**	**15 days?**	**6/10/2023**	**26/10/2023**		C
15	◈	Conduct needs analysis	5 days	6/10/2023	13/10/2023	Analyst	
16	◈	Draft preliminary software specifications	3 days	13/10/2023	16/10/2023	Analyst	
17	◈	Develop preliminary budget	2 days	16/10/2023	20/10/2023	Project Manager	
18		Review software specifications/budget with team	1 day	20/10/2023	20/10/2023	Project Manager	C
19		Incorporate feedback on software specifications	1 day	21/10/2023	21/10/2023	Analyst	
20		Develop delivery timeline	1 day	22/10/2023	22/10/2023	Project Manager	
21	◈	Obtain approvals to proceed (concept,	4 hrs	23/10/2023	23/10/2023	Management,	

	❶	Task Name	Duration	Start	Finish	Resource Names
22		Secure required resources	1 day	23/10/2023	26/10/2023	Project Manager
23		Analysis complete	0 days	26/10/2023	26/10/2023	
24		**Design**	**16 days?**	**26/10/2023**	**13/11/2023**	
25	◈	Review preliminary software specifications	2 days	26/10/2023	28/10/2023	Analyst
26	◈	Develop functional specifications	5 days	28/10/2023	4/11/2023	Analyst
27	◈	-Develop prototype based on functional specifications	4 days	4/11/2023	10/11/2023	Analyst
28	◈	Review functional specifications	2 days	10/11/2023	12/11/2023	Management
29	◈	Incorporate feedback into functional specifications	1 day	12/11/2023	13/11/2023	Management
30	◈	Obtain approval to proceed	1 day	13/10/2023	13/11/2023	Management, P

	❶	Task Name	Duration	Start	Finish	Resource Names
28	◈	Review functional specifications	2 days	10/11/2023	12/11/2023	Management
29	◈	Incorporate feedback into functional specifications	1 day	12/11/2023	13/11/2023	Management
30	◈	Obtain approval to proceed	1 day	13/10/2023	13/11/2023	Management, P
31		Design complete	0 days	13/10/2023	13/11/2023	
32		**Development**	**45 days?**	**15/11/2023**	**19/12/2023**	
33	◈	Review functional specifications	2 days	16/11/2023	17/11/2023	Developer
34	◈	Identify modular/tiered design parameters	1 day	17/11/2023	18/11/2023	Developer
35	◈	Write Code	28 days	18/11/2023	13/12/2023	software engin
36		Developer testing	9 days	25/11/2023	14/12/2023	
37		System Testing	3 days	14/12/2023	17/12/2023	software engin
38		Write manuals	1 day	17/12/2023	18/12/2023	
39		close	1 day	18/12/2023	19/12/2023	

01 Oct '23	08 Oct '23	15 Oct '23	22 Oct '23	29 Oct '23	05 Nov '23	12 Nov '23	19 Nov '23	26
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S	S S

Management

Management

Management,Project Manager

Developer

Developer

software engineering

software engineering

software engineering
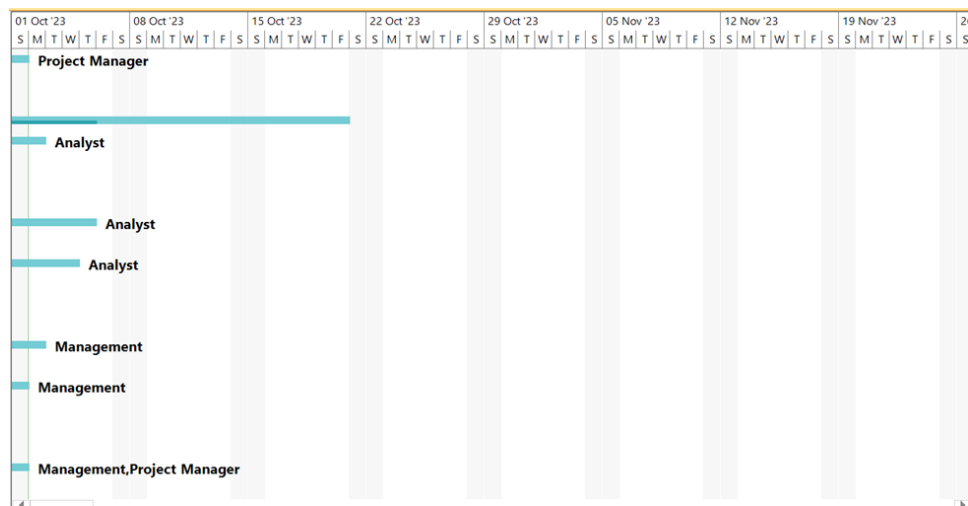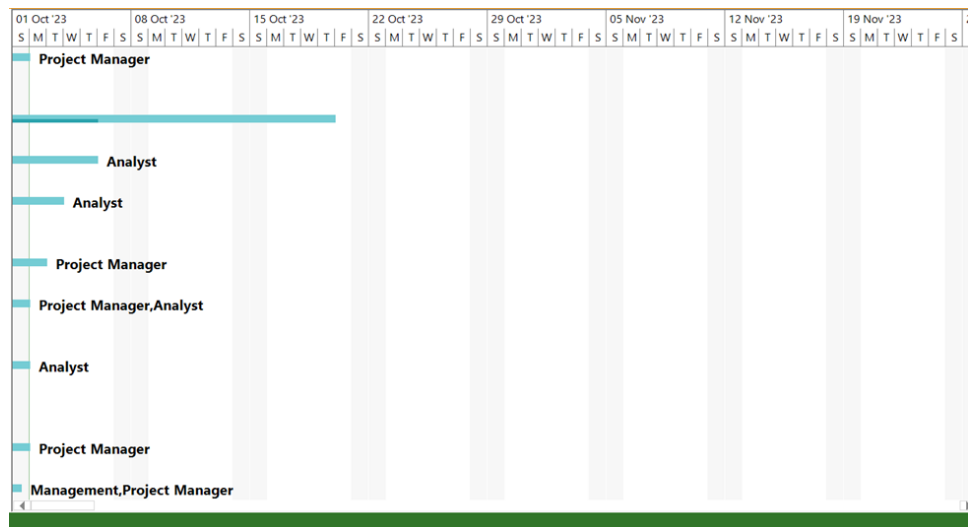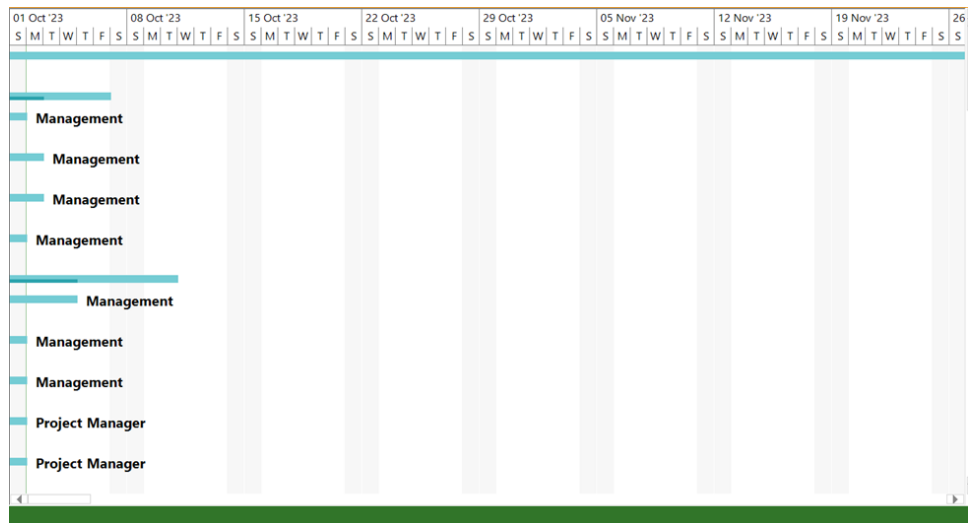
Title

CCSW 223

Lab 5 Analysis Phase 1

Stockholder Definition – The Context of the Work

[CJW]

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Jana Shalabi	2212884	

Group Leader:

Editor:

Revisor:

Notes:

- *Rename the file as SW223_LAB5_yourSection_Group#*

- *Submit as (.pdf) file*

- *You can change the file style and formatting*

- *Please always revise spelling, grammar, and punctuations*

Stockholder Definition

1 The Client

the client as the person who makes the investment in the product.

Partners from different gyms invest in our application to provide offers to users.
Partners from different meal prep companies providing meals for customers.
Personal trainer being a partner to provide services needed.
Uber invests in the company to provide drivers.

2 The Customer

The person intended to buy the product.

Any person who's interested in building a better life, healthier routine, and a healthy relationship with food. Might be a mother, young adults etc.

3 Other Stakeholder

System stakeholders for the Green Life program system include:

1. **Health Experts** professional who provides guidance, advice, and expertise in the field of healthcare and wellness to our customers.

2. **Trainer** who are responsible for creating customized exercise plans to our customer, teaching proper workout techniques, monitoring progress, ensuring safety, and staying updated on fitness trends.

3. **Customer Service** who is responsible for helping customers with their questions and problems related to a company's products or services to ensure their satisfaction.

4. **Employee Manager** who manage the staff, set goals, and handle any problems or conflicts within the team.

5. **Drivers** who are responsible for safely transporting clients to and from the gym, ensuring the meals are securely delivered, and maintaining the vehicle in good working condition.

6. **Meal Plans Provider** is in charge of creating personalized meal plans, preparing the specified meals, and ensuring their safe and timely delivery to clients coordinating with our drivers.

7. **Childcare Workers** who are responsible for looking after and entertaining the children of members while their parents exercise, they must ensure the kids' safety.

# *The scope of the work*

1   The Current Situation

The existing business processes outlined above encompass various stages of customer interaction with the application. These processes range from initial account creation and login to more specific activities such as creating a membership, making payments, booking sessions with personal trainers, and accessing additional services like transportation and nutrition appointments. Currently, the majority of these processes appear to be manual, requiring direct input from the customer or a health expert. For instance, activities like creating a membership, making payments, and booking sessions all involve direct customer interaction with the application. On the other hand, processes like generating receipts and creating workout plans seem to be automated, with the system generating outputs.

Upon considering the potential impact of a new product, it's evident that certain processes could benefit from automation or enhancement. For example, the creation of memberships, payments, and booking trainer sessions could be streamlined by integrating a more user-friendly and efficient interface. Additionally, features like calculating BMI and generating receipts could be further automated to improve accuracy and speed. The introduction of the new product has the potential to not only enhance the user experience but also increase operational efficiency by reducing manual intervention in certain areas. This analysis provides a foundation for identifying key areas where the new product can add significant value to the existing business processes.

2   The Context of the Work

Context Diagram

The context and boundaries of the software are outlined through a high-level view of the system, which establishes the interface between the system (or its components) and its external environment. In this system, there are two primary external entities: the supplier and the restaurant. The supplier is responsible for providing the restaurant with necessary supplies, while the restaurant places orders with the supplier. Within the restaurant, various processes take place, including menu management, information exchange regarding supplies, tracking sales data, generating customer receipts, presenting final bills, serving meals to customers, and handling customer payments. This system operates within the defined parameters of these interactions, effectively managing the flow of information and resources between the supplier and the restaurant.
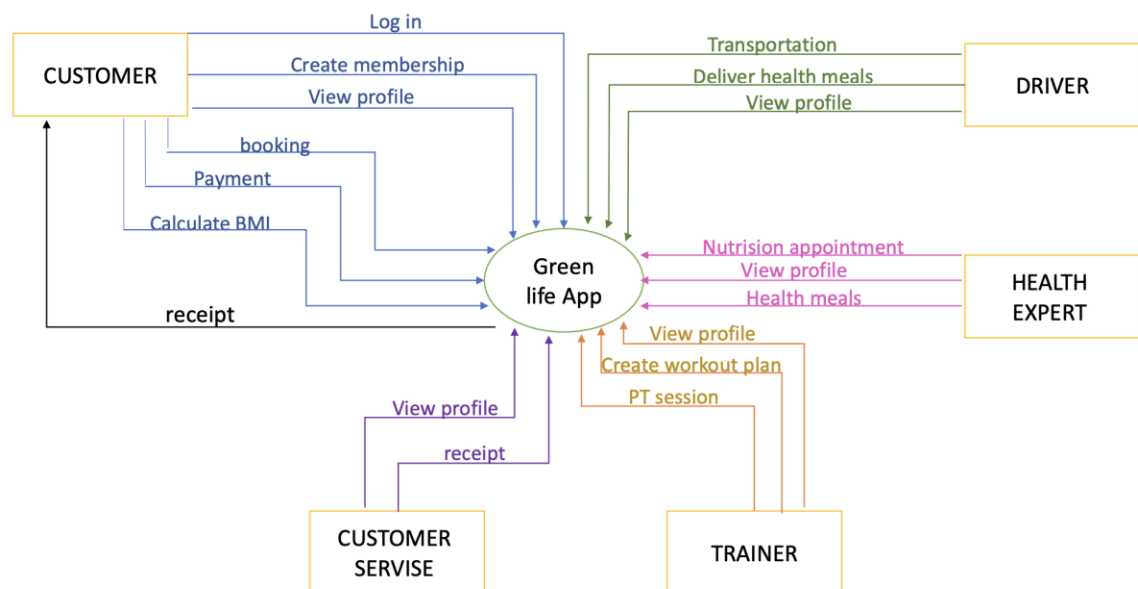
Business Event List

Event Name	Input and Output	Summary
1. Account	Log in (in)	Creating an account and logging in
2. Create Membership	Membership (in)	Customer creates a membership
3. Payment	Payment (in)	Customer does the payment to the application
4. Customer Booking	Booking (in)	Customer does the booking through the application
5. View Profile	View Profile (in)	Customer views their profile in the application
6. Calculate BMI Generation	Calculate BMI (in)	Customer calculates their BMI
7. Receipt Generation	Receipt (Out)	Customer received the receipt from the system
8. Booking Trainer Session	PT Session (in)	Customer books a personal trainer from the application
9. Create workout Plan	Workout Plan (in)	PT creates a workout plan for the customer
10. Customer Transportation	Transportation(in)	Customer orders a transportation from the application
11. Deliver healthy meals	Deliver healthy meals (in)	cation delivers the meals to the customer
12. Create Nutrition appointment	Nutrition appointment (in)	Customer creates a nutrition appointment from the application
13. Health Expert	Healthy meals (in)	The health expert creates the meals for the customer

[Green Life]

CCSW 223 Lab6

[CJW]

Lab6 Requirements and Use case model

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Joud Muzahim	2212477	
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Editor:

Grading Policy

Use case model
Correct actors
Correct use cases
Correct use case names
Correct diagram notation (arrows, relationships.)
Correct scenarios

SW223 LAB suggested drawing tool

http://www.lucidchart.com

Use case diagram

List of scenarios

Name	Log in Create membership View profile Booking Calculate BMI
Id	GL1 GL2 GL3 GL4 GL5
Actors	Customer Driver Employee (customer service, trainer, health expert)
Precondition	There are no preconditions
Path	1. Customer log in by verifying password 2. Customer must pay for the membership, and receive a receipt from the customer service 3. Customers and employees can view profile 4. Customers can book online for PT sessions, nutrition appointments, transportations, and healthy meals 5. Customer may calculate BMI 6. Customer service create receipts 7. Trainer creates workout plans and PT sessions 8. Health expert makes nutrition appointments and organize healthy meals 9. Driver transport meals ….

Grading Policy

Function and Non-Function requirements
Correct classification (FR & NFR)
Writing at least 15 relevant FRs

Writing at least 6 NFRs of 3 types
Unambiguous requirements (complete sentences, no ambiguous adverbs, adjectives, or pronouns, unified naming for one entity ...)
Good writing format (punctuation, paragraph alignment, font size,...)

1 Functional Requirements

1-The system shall allow the users, customer service, trainer, driver, and health experts to log in.

2-The system shall allow for online booking for PT sessions, nutrition appointments, Transportation, and healthy meals by the users.

3- The system shall allow the users, customer service, trainer, and health experts to view the customer profile.

4-The system shall provide translation of a web page to another language

5- A user should be able to download the mobile application through either an application store or a similar service on the mobile phone.

6-the system shall allow the user to calculate body BMI.

7- the system shall allow the user to create a membership and payment method and receive a receipt that has been written by customer service.

8- the system shall allow trainers to make a workout plan.

9- the system shall allow trainers to show any booked PT sessions.

10- the system shall allow health experts to show nutrition appointments.

11- the system shall allow health experts to suggest healthy meals to users that suit their needs.

12- the system shall allow drivers to view any transportation reservation, whether it is delivering healthy meals orders or taking a user to the gym.

13- the system should help users search for the nearest and best gym.

14 - the system shall allow users to book a nursery time for those who need it.

15-on the profile page the user can edit his/her information, which includes the password, e-mail address, and phone number.

2 Non-functional Requirements

2.1 Performance

NFR1: The system should analyze feedback of issues related to performance and address them in a matter of seconds.

NFR2: Ensure that the application operates and performs on various systems and devices including IOS, Android, and other browsers.

2.2 Usability

NFR3: The application users should be able to access the list of partnered gyms easily.

NFR4: Allow users to manage and create profiles that include their personal information, goals, dietary preferences, and fitness levels.

2.3 Availability

 NFR5: The application should be available and accessible to users 24/7 updates and maintenance is an exception.

NFR6: Backup should occur daily, and data recovery processes should restore data within an hour to prevent data loss.

[Green Life]

CCSW 223 Lab8

[CJW]

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Editor:

Revisor:

LAB9- Class Diagram	
Grading Policy	
Representative classes	3
Logical relationships (association, generalization, aggregation,....)	2
Logical multiplicities	3
Logical attributes and methods	2
Correct diagram notation	2
Writing clear description and correct logic	3
Total	**15**

Describe system logic, classes, relationships, attributes, and methods

Our system introduces ways to building a healthy lifestyle it includes six types of users:

- Driver, PT, customers, Health expert, Customer Service, Employees.
- Customers can book one or many appointments for transportation.
- A customer can
    - ask for BMI calculations.
    - manage their membership information.
    - access gym benefits including bringing their kids to the nursery.
    - book one or many appointments with a nutritionist.
    - book one or many appointments to receive healthy meals.
    - book one or many appointments for PT sessions with the trainer.
    - access one or many gym facilities.
- Both customer Service and Health Expert can view profile.
- One or many PT sessions can be managed by one and only one trainer.
- One or many Nutrition Appointments can be managed by one and only one Health Expert.
- One or many Transportations can be managed by one and only one Driver.
- One or many Healthy Meals can be managed by one or many Drivers.

Relationships:

 - Generalization: employee, trainer, health expert

- Aggregation: customer and employees

- Association: customer and trainer

- Association: customer and driver

Methods:

- Customer Methods :

calculateBMI() ;

Booking() ;

viewProfile () ;

createMembership() ;

logIn() ;

- Employees Methods :

viewProfile ();

-Customer service:

printReceipt ();

-Health expert:

bookingAppointments() ;

bookingTransportation();

createMeals();

- Driver :

bookingTransportation();

deliverMeals();

- Personal Trainer :

createWorkoutPlans() ;

CreateSessions() ;

[draw your diagram clearly using a good tool such as Lucidchart.com]