



# **October University for Modern Science and Arts (MSA)**

## **Faculty of Computer Science**

### **Project Report**

In fulfilment of the requirements of course CS283

## **UTOPIA**

By:

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Supervised by:

- Dr. Ibrahim ElDesouky
- Dr. Nehal Ali



## 1- Introduction

Welcome to your gym's digital hub! Our website simplifies daily tasks, from managing memberships and scheduling classes to communicating with members and analyzing your business performance.

## 2- Website objective

- \* Improve efficiency: By automating tasks like membership management, billing, and scheduling, the website saves time and reduces administrative overhead for gym staff.
- \* Enhance member experience: Providing members with online access to manage their memberships, book classes, and communicate with the gym improves convenience and satisfaction.
- \* Increase revenue: By optimizing operations, improving member retention, and facilitating marketing efforts, the website can contribute to increased revenue for the gym.

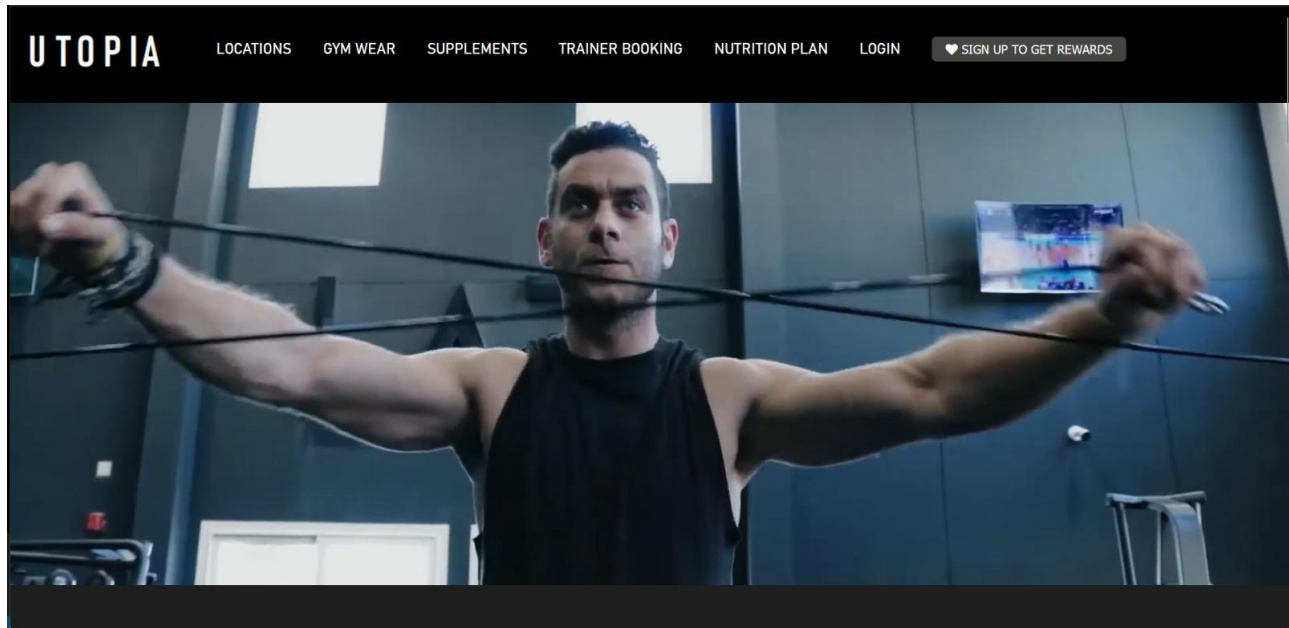
**Here are some key functions that contribute to this objective:**

- \* Membership Management: we provided a sign up and log in page to help with making a membership in the gym.
- \* Class Scheduling and Booking: we provided a page that has all the trainers and a form to fill to choose the trainers after submitting it.
- \* Billing and Payment Processing: we made a cart on the side of the web page to add up all the fees at the end.
- \* Communication and Marketing: zoom meetings as lessons for people that can't go to the gym.

## 3- Used tools and platforms

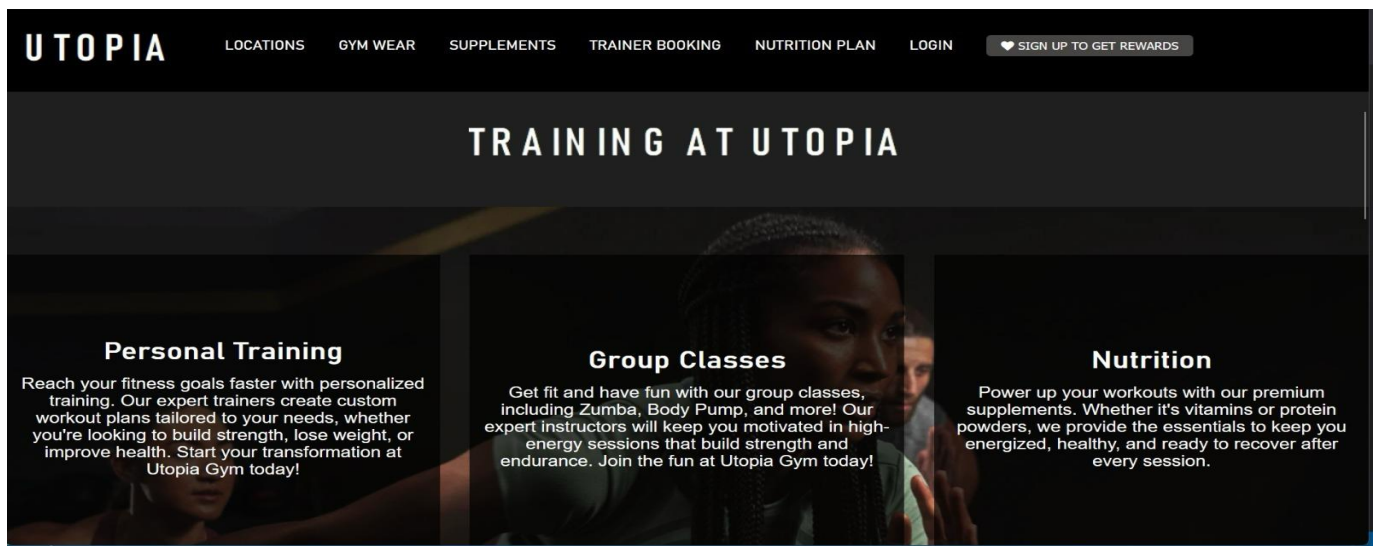
- \* We used html, CSS, JavaScript, php
- \* W3schools, Web Development platforms, GitHub.

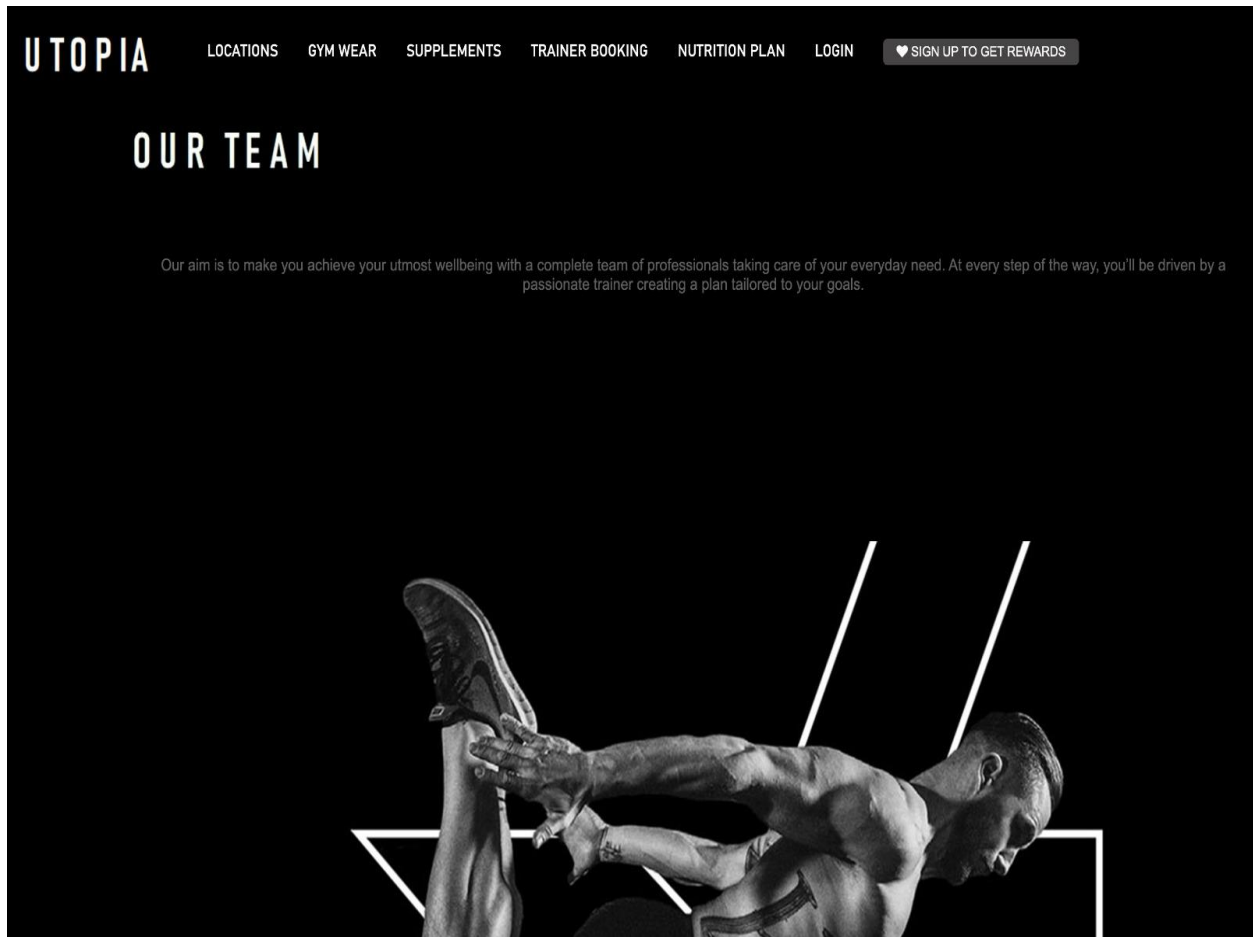
## 4- Main pages of the website



The home and main page which was made by our group leader Erfan Mohamed

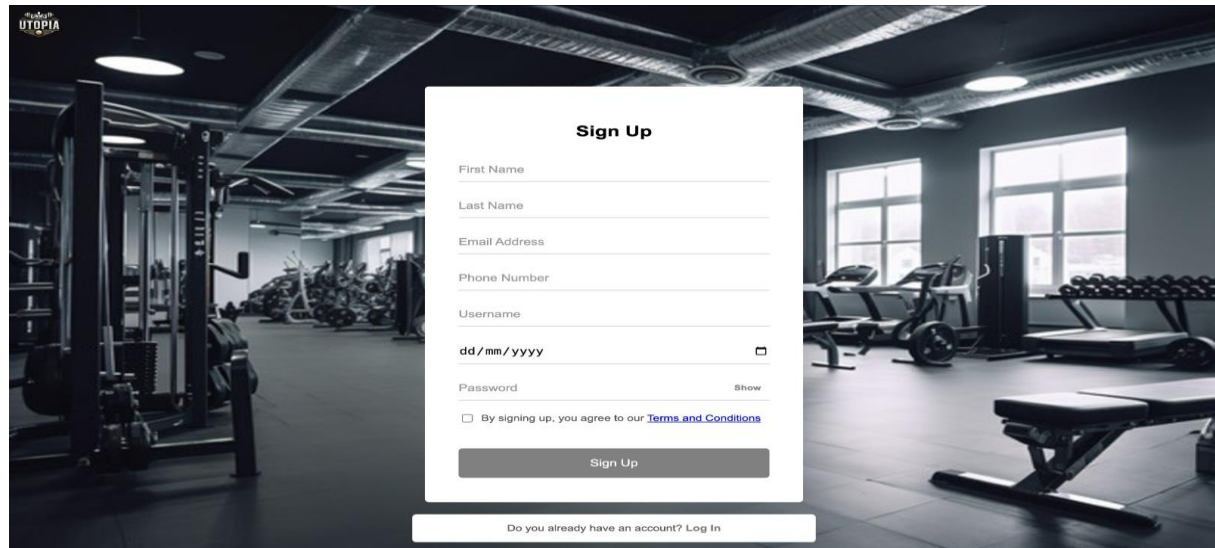
Other home page images:





These pages Erfan provided more than one tab which could help us move smoothly from one web page to another like the locations tab the login or signup tag and a other brief information about our gym management system website.

Now moving to our sign up and login pages which were made by Mohamed Ammar:



**Sign Up**

First Name

Last Name

Email Address

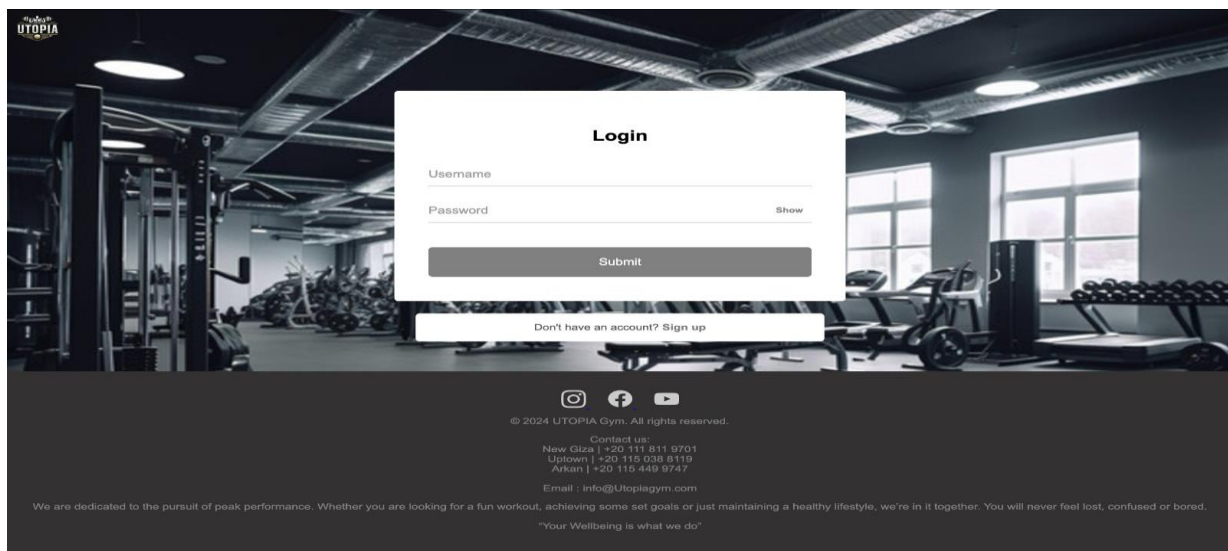
Phone Number

Username

dd/mm/yyyy

Password  [Show](#)




☐ By signing up, you agree to our [Terms and Conditions](#)



**Login**

Username

Password  [Show](#)

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Contact us:  
New Giza | +20 111 811 9701  
Uptown | +20 115 038 8119  
Arkan | +20 115 449 9747  
Email : [info@Utopiagym.com](mailto:info@Utopiagym.com)

We are dedicated to the pursuit of peak performance. Whether you are looking for a fun workout, achieving some set goals or just maintaining a healthy lifestyle, we're in it together. You will never feel lost, confused or bored.

"Your Wellbeing is what we do"

These web pages provide you an easy and secure access to your account/membership at utopia gym it also makes it safe that no one will interfere either your purchases on our website because we offer online paid services.

Which leads us to the trainers/booking page that were made by Fajr Reda:




These pages have our trainers:


## TRAINING AT UTOPIA

Welcome to UTOPIA online community, your portable hub for sweet sessions and mindfulness practices. It's always a good time to set new life goals & when it comes to your well being ones. Our platform is the place to help you achieve their utmost. It was never just a workout, it's something to look forward to. Wherever you are, whenever you're ready, whatever your goal is. We take care of everything. With the right personal trainer you can never reach a plateau. Sign up for our customized workouts to unlock the extraordinary & let the transformation begin.


GO LIVE WITH US ON **zoom**

GO LIVE









**AHMED SHERBINI**  
Expert in functional training and HIIT workouts.




**INGY SWEID**  
Certified yoga and mindfulness coach.




**NADIN**  
Strength and conditioning specialist.









**SAAD**  
Professional bodybuilder and nutritionist.




**MOSTAFA ABD EL AZIZ**  
Personal fitness and weight loss expert.




**HANIA**  
Pilates instructor and flexibility coach.




**OMAR KORAYEM**  
Professional bodybuilder and nutritionist.




**REEM ALY**  
Personal fitness and weight loss expert.




**MONIR KANOSH**  
Pilates instructor and flexibility coach.



**OMAR KORAYEM**  
Strength trainer with expertise in calisthenics.



**REEM ALY**  
Certified fitness trainer and wellness coach.




**MONIR KANOSH**  
Specialist in strength training and recovery.

**BOOK NOW**

Full Name\* Gender\*

And at the end there will be a form for you to fill out so you can proceed with your booking:



## BOOK NOW

Full Name\*

Enter your full name

Gender\*

Select

Date of Birth\*

dd/mm/yyyy

Email Address\*

Enter your email

Username\*

Enter your username

Weight

Weight (kg)

Height

Height (cm)

**Your Fitness Goals**

☐ Weight loss

☐ Endurance

☐ Muscular strength

☐ Fitness

☐ Toning & shaping

☐ Other

☐ Fat loss

☐ Flexibility

☐ Appearance

☐ General conditioning

☐ Posture

**Do You Exercise Regularly?**

☐ I have never exercised regularly

☐ I used to exercise regularly



### Your Fitness Goals

- ☐ Weight loss
- ☐ Endurance
- ☐ Muscular strength
- ☐ Fitness
- ☐ Toning & shaping
- ☐ Other

- ☐ Fat loss
- ☐ Flexibility
- ☐ Appearance
- ☐ General conditioning
- ☐ Posture

### Do You Exercise Regularly?

- ☐ I have never exercised regularly
- ☐ I used to exercise regularly
- ☐ I exercise every now and then
- ☐ I currently exercise regularly

### Rate Your Overall Activity Level

- ☐ Inactive
- ☐ Moderately Active
- ☐ Active
- ☐ Very Active

### Where Do You Usually Workout?

- ☐ Gym
- ☐ Home

### Are You a Smoker?

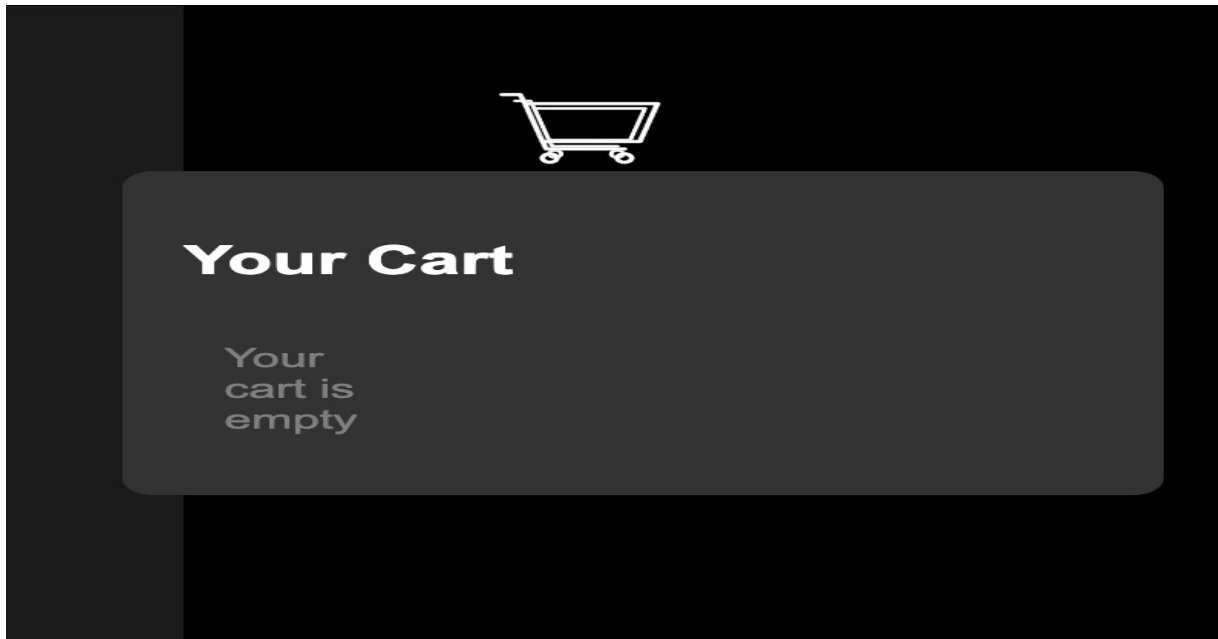
- ☐ Yes
- ☐ No

### Are You Pregnant?

- ☐ Yes
- ☐ No

### Do You Have Any Diagnosed Health Problems?

This is an image with the cart empty:



Now this is after filling out the form:

BOOK NOW

Full Name\*  
anan khaled

Gender\*  
Female

Date of Birth\*  
24/12/2004

Email Address\*  
anan.khaled@msa.edu.eg

Username\*  
anankhaled

Weight  
63

Height  
164

**Your Fitness Goals**

- ☐ Weight loss
- ☐ Endurance
- ☐ Muscular strength
- ☐ Fitness
- ☒ Toning & shaping
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- ☐ Active
- ☐ Very Active



Now moving on to the locations part which was made by Anan Khaled:







**NEW GIZA**

It was off to a great start back in 2017 when we launched our very first branch, Utopia's first landmark, our New Giza branch. Situated in the most prime location on Cairo's west side with a convenient distance to all main roads. Our New Giza branch is a totally different experience being located in a sports club, it gave it a certain standard and persona with a cozy and family feel. With greeneries, a football field and a running track circling around it. The branch includes two spacious indoor floors spanning across 740 SQM and an outdoor functional area of 550 SQM along with a welcoming ground floor with a club twist booth offering a wide variety of fresh healthy drinks and snacks with a fully equipped locker rooms and recovery rooms.

A unique and powerful branch situated at one of the very famous hang out places in 6th of October, The New Arkan Mall extension. Arkan branch was launched in May,2021. The branch is over 1650 square meters indoors and another






**ARKAN**

A unique and powerful branch situated at one of the very famous hang out places in 6th of October, The New Arkan Mall extension. Arkan branch was launched in May,2021. The branch is over 1650 square meters indoors and another 1800 Square meters outdoors and it is designed to feel like a proper fitness high ceiling palace. You will get an instant rush of endorphins just by walking through the entire gym all the way from the artistic luxurious entrance and to the meticulously and wholeheartedly designed facilities catering to your every need. Every corner in our spacious hub is equipped with the highest and latest quality machines. The spacious environment is replete with spectacular city views, including an overlooking rooftop functional area/boxing area and a squash court.



**SEASHELL**



Keep your progress going all summer in our Club designed exclusively for the G Hotel. This one-of-a-kind beachfront Club features an indoor 250 SQM and an outdoor 530 SQM area. A pure expression of high performance. One of the most



**SEASHELL**

Keep your progress going all summer in our Club designed exclusively for the G Hotel. This one-of-a-kind beachfront Club features an indoor 250 SQM and an outdoor 530 SQM area. A pure expression of high performance. One of the most strategically convenient locations in the North Coast.

Contact us:  
New Giza | +20 111 811 9701  
Uptown | +20 115 038 8119  
Arkan | +20 115 449 9747  
Email : info@Utopiagym.com

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We are dedicated to the pursuit of peak performance. Whether you are looking for a fun workout, achieving some set goals or just maintaining a healthy lifestyle, we're in it together. You will never feel lost, confused or bored.

"Your Wellbeing is what we do"

In this page we added our locations and where you could find our gym by clicking on any picture it transfers you to the maps so you could go to our locations easily.

## **Backend:**

The backend of the Gym Management System is implemented using PHP for server-side processing and MySQL for database management. This documentation describes the functionality of the backend PHP scripts and the database structure.

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### **PHP Scripts**

#### **1. SignUp.php**

**Purpose:** Handles user registration.

**Workflow:**

- Accepts username and password from a form submission.
- Validates inputs to ensure they are not empty.
- Connects to the MySQL database to:
  - Check if the username already exists.
  - Insert the new user with a hashed password.
- Redirects the user to index.html on successful registration, with their username stored in a session.

**Key Features:**

- Password hashing using password\_hash() for security.
- Prevents SQL injection using prepared statements.

**Database Interaction:**

- Table: users
    - Columns: id (INT, PRIMARY KEY), username (VARCHAR), password (VARCHAR).
- 

#### **2. Login.php**

**Purpose:** Handles user authentication.

**Workflow:**

- Accepts username and password from a form submission.

- Validates inputs to ensure they are not empty.
- Connects to the MySQL database to:
  - Retrieve the hashed password for the provided username.
  - Verify the entered password using password\_verify().
- Redirects the user to index.html on successful login, with their username stored in a session.

#### **Key Features:**

- Secure password verification.
- Prevents SQL injection using prepared statements.

#### **Database Interaction:**

- Table: users
    - Columns: id, username, password.
- 

### **3. TrainerBooking.php**

**Purpose:** Handles trainer booking requests.

#### **Workflow:**

- Accepts name, trainer, date, and time from a form submission.
- Validates inputs to ensure they are not empty.
- Connects to the MySQL database to:
  - Insert the booking details into the bookings table.
- Displays a success message on successful booking.

#### **Key Features:**

- Data validation to ensure all fields are filled.
- Prevents SQL injection using prepared statements.

#### **Database Interaction:**

- Table: bookings
  - Columns: id (INT, PRIMARY KEY), name (VARCHAR), trainer (VARCHAR), date (DATE), time (TIME).



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## 5- Team members

**Team Leader:** Erfan Mohamed

Fajr Reda

Mohamed Ammar

Anan Khaled