

Student Name: Aakash Thapliyal

UID: 24MCC20027

Branch: MCA(ccd)

Section/Group: A 1

Semester: 1st

Date of Performance: 06-11-2024

Subject Name: ADBMS

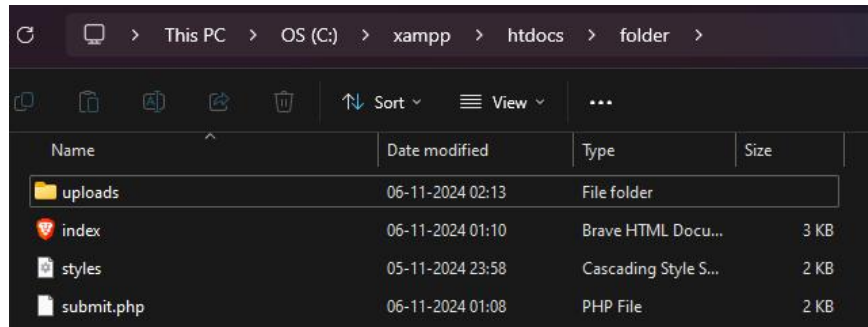
Subject Code: 24CAP-607

1. Title of Project. Registration form using HTML,PHP and SQL

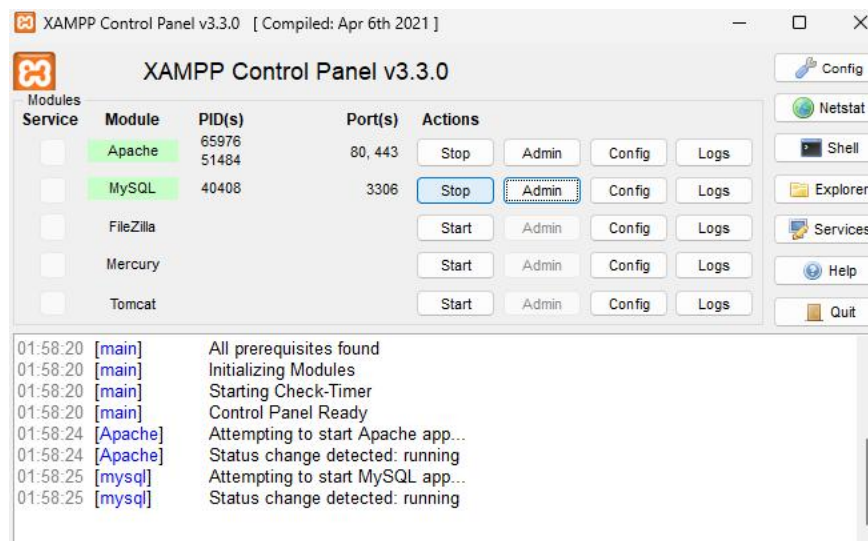
2. Aim/Overview of the practical: This project aims to create a simple registration form using HTML for the frontend, PHP for server-side processing, and MySQL for database management. The registration form allows users to enter their personal details, which are then stored in a MySQL database using XAMPP as the server environment.

3. Technologies Used

- **Frontend:** HTML, CSS (for styling)
- **Backend:** PHP
- **Database:** MySQL



- **Server:** XAMPP (Apache, MySQL)



4. Database Setup

Install XAMPP: Download and install XAMPP from Apache Friends. Start the Apache and MySQL services using the XAMPP Control Panel.

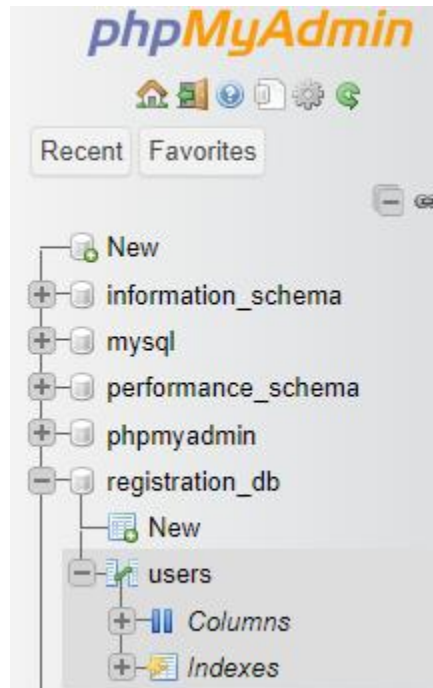
Create a Database:

- Open phpMyAdmin by navigating to <http://localhost/phpmyadmin> in your web browser.
- Create a new database called `registration_db`.
- Run the following SQL query to create a users table:

```
1 CREATE DATABASE registration_db;
2 USE registration_db;
3 CREATE TABLE users (
4     id INT AUTO_INCREMENT PRIMARY KEY,
5     first_name VARCHAR(50) NOT NULL,
6     last_name VARCHAR(50) NOT NULL,
7     email VARCHAR(100) NOT NULL UNIQUE,
8     password VARCHAR(255) NOT NULL,
9     account_type ENUM('Personal Account', 'Business Account') NOT NULL,
10    terms_accepted BOOLEAN NOT NULL,
11    profile_picture VARCHAR(255),
12    age INT,
13    referrer VARCHAR(50),
14    bio TEXT
15 );
```

5. Database in mysql:

- ✓ Now database and table is created which we can observe in GUI.
- ✓ In table users we have created columns which is also visible on pannel and we can explore it by just clicking on it.



(GUI of Database)

6. Inserting Entries in database using Structure query language:

```
1 INSERT INTO users (first_name, last_name, email, password, account_type, terms, profile_picture, age, referrer, bio) VALUES
2 ('Priya', 'Sharma', 'priya.sharma@example.com', 'password123', 'Personal Account', 1, 'uploads/priya_sharma.jpg', 25, '1', 'Nature enthusiast.'),
3 ('Vikas', 'Reddy', 'vikas.reddy@example.com', 'password123', 'Business Account', 1, 'uploads/vikas_reddy.jpg', 30, '2', 'Tech consultant and speaker.'),
4 ('Rina', 'Verma', 'rina.verma@example.com', 'password123', 'Personal Account', 1, 'uploads/rina_verma.jpg', 28, '3', 'Animal shelter volunteer.'),
5 ('Arjun', 'Kaur', 'arjun.kaur@example.com', 'password123', 'Business Account', 1, 'uploads/arjun_kaur.jpg', 27, '4', 'Business strategist.'),
6 ('Seema', 'Kapoor', 'seema.kapoor@example.com', 'password123', 'Personal Account', 1, 'uploads/seema_kapoor.jpg', 24, '1', 'Avid photographer.'),
7 ('Ajay', 'Patil', 'ajay.patil@example.com', 'password123', 'Business Account', 1, 'uploads/ajay_patil.jpg', 33, '2', 'Entrepreneur in training.'),
8 ('Neha', 'Desai', 'neha.desai@example.com', 'password123', 'Personal Account', 1, 'uploads/neha_desai.jpg', 26, '3', 'Food lover and chef.'),
9 ('Rohit', 'Joshi', 'rohit.joshi@example.com', 'password123', 'Personal Account', 1, 'uploads/rohit_joshi.jpg', 29, '4', 'Sports enthusiast.'),
10 ('Aditi', 'Iyer', 'aditi.iyer@example.com', 'password123', 'Business Account', 1, 'uploads/aditi_iyer.jpg', 31, '1', 'Public speaker and mentor.'),
11 ('Sandeep', 'Nair', 'sandeep.nair@example.com', 'password123', 'Personal Account', 1, 'uploads/sandeep_nair.jpg', 34, '2', 'Yoga instructor.'),
12 -- Add 90 more entries similarly
13 ('Ananya', 'Sharma', 'ananya.sharma@example.com', 'password123', 'Business Account', 1, 'uploads/ananya_sharma.jpg', 23, '1', 'Freelance graphic designer.'),
14 ('Rahul', 'Malhotra', 'rahul.malhotra@example.com', 'password123', 'Personal Account', 1, 'uploads/rahul_malhotra.jpg', 25, '2', 'Part-time musician.'),
15 ('Sneha', 'Pillai', 'sneha.pillai@example.com', 'password123', 'Personal Account', 1, 'uploads/sneha_pillai.jpg', 28, '3', 'Software engineer and cat lover.'),
16 ('Aman', 'Bhatt', 'aman.bhatt@example.com', 'password123', 'Business Account', 1, 'uploads/aman_bhatt.jpg', 32, '4', 'Runs a digital marketing agency.'),
17 ('Ruchi', 'Kumar', 'ruchi.kumar@example.com', 'password123', 'Personal Account', 1, 'uploads/ruchi_kumar.jpg', 30, '1', 'Artist and sculptor.'),
18 ('Deepak', 'Jain', 'deepak.jain@example.com', 'password123', 'Personal Account', 1, 'uploads/deepak_jain.jpg', 27, '2', 'Photography enthusiast.'),
19 ('Meera', 'Agarwal', 'meera.agarwal@example.com', 'password123', 'Business Account', 1, 'uploads/meera_agarwal.jpg', 29, '3', 'Owner of a small bakery.'),
20 ('Rishi', 'Thakur', 'rishi.thakur@example.com', 'password123', 'Personal Account', 1, 'uploads/rishi_thakur.jpg', 26, '4', 'Personal trainer and coach.'),
21 ('Kavita', 'Raj', 'kavita.raj@example.com', 'password123', 'Personal Account', 1, 'uploads/kavita_raj.jpg', 31, '1', 'Volunteer at animal shelters.'),
22 ('Naveen', 'Shinde', 'naveen.shinde@example.com', 'password123', 'Business Account', 1, 'uploads/naveen_shinde.jpg', 33, '2', 'Owns an event management firm.'),
23 ('Simran', 'Mehta', 'simran.mehta@example.com', 'password123', 'Personal Account', 1, 'uploads/simran_mehta.jpg', 24, '3', 'Runs a blog on wellness.'),
24 ('Arvind', 'Kaur', 'arvind.kaur@example.com', 'password123', 'Personal Account', 1, 'uploads/arvind_kaur.jpg', 28, '4', 'Travels frequently and documents journeys.'),
25 ('Kiran', 'Shetty', 'kiran.shetty@example.com', 'password123', 'Business Account', 1, 'uploads/kiran_shetty.jpg', 29, '1', 'Experienced UI/UX designer.'),
26 ('Preeti', 'Mishra', 'preeti.mishra@example.com', 'password123', 'Personal Account', 1, 'uploads/preeti_mishra.jpg', 30, '2', 'Works as a freelance writer.'),
27 ('Vijay', 'Saxena', 'vijay.saxena@example.com', 'password123', 'Personal Account', 1, 'uploads/vijay_saxena.jpg', 32, '3', 'Enjoys adventure sports.'),
28 ('Lakshmi', 'Subramanian', 'lakshmi.subramanian@example.com', 'password123', 'Business Account', 1, 'uploads/lakshmi_subramanian.jpg', 25, '4', 'HR manager and trainer.'),
29 ('Riya', 'Nair', 'riya.nair@example.com', 'password123', 'Personal Account', 1, 'uploads/riya_nair.jpg', 25, '1', 'Fashion enthusiast.'),
30 ('Amit', 'Yadav', 'amit.yadav@example.com', 'password123', 'Business Account', 1, 'uploads/amit_yadav.jpg', 29, '2', 'Tech entrepreneur.'),
31 ('Pooja', 'Shukla', 'pooja.shukla@example.com', 'password123', 'Personal Account', 1, 'uploads/pooja_shukla.jpg', 28, '3', 'Book lover and writer.').
```


5. HTML Registration Form

Create a file named registration.html in the htdocs directory of your XAMPP installation:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title> Details Form</title>
    <link rel="stylesheet" href="styles.css" />
  </head>
  <body>
    <h1>Registration Form</h1>
    <p>Please fill out this form with the required information</p>

    <!-- submit.php -->
    <form action="submit.php" method="POST" enctype="multipart/form-data">
      <fieldset>
        <label>Enter Your First Name:
          <input type="text" name="first-name" required />
        </label>

        <label>Enter Your Last Name:
          <input type="text" name="last-name" required />
        </label>

        <label>Enter Your Email:
          <input type="email" name="email" required />
        </label>

        <label>Create a New Password:
          <input type="password" name="password" required />
        </label>
      </fieldset>

      <fieldset>
        <label>
          <input type="radio" name="account-type" value="Personal Account" class="inline" required />
          Personal Account
        </label>

        <label>
          <input type="radio" name="account-type" value="Business Account" class="inline" />
          Business Account
        </label>

        <label>
          <input type="checkbox" name="terms" class="inline" required />
          I accept the <a href="https://www.cuchd.in/" target="_blank">terms and conditions</a>
        </label>
      </fieldset>

      <fieldset>
        <label>Upload a profile picture:
          <input type="file" name="file" />
        </label>

        <label>Input your age (years):
          <input type="number" name="age" min="13" max="60" />
        </label>
      </fieldset>
    </form>
  </body>
</html>
```

```
<label>From where did you hear about Chandigarh University?
  <select name="referrer">
    <option value="">(select one)</option>
    <option value="1">CU Ads</option>
    <option value="2">By friends/family</option>
    <option value="3">Newspaper/Social media</option>
    <option value="4">Other</option>
  </select>
</label>

<label>Ask Queries:
  <textarea name="bio" rows="3" cols="30" placeholder="Write your queries here"></textarea>
</label>
</fieldset>

<input type="submit" value="Submit" />
</form>
</body>
</html>
```

6. PHP Script for Processing Registration

Create a file named register.php in the same directory:

```
<?php
// Database connection settings
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "registration_db";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Sanitize and retrieve form data
$first_name = $_POST['first-name'];
$last_name = $_POST['last-name'];
$email = $_POST['email'];
$password = $_POST['password'];
$account_type = isset($_POST['account-type']) && $_POST['account-type'] === 'Business Account' ? 'Business Account' : 'Personal Account';
$terms_accepted = isset($_POST['terms']) ? 1 : 0;
$age = $_POST['age'];
$referrer = $_POST['referrer'];
$bio = $_POST['bio'];

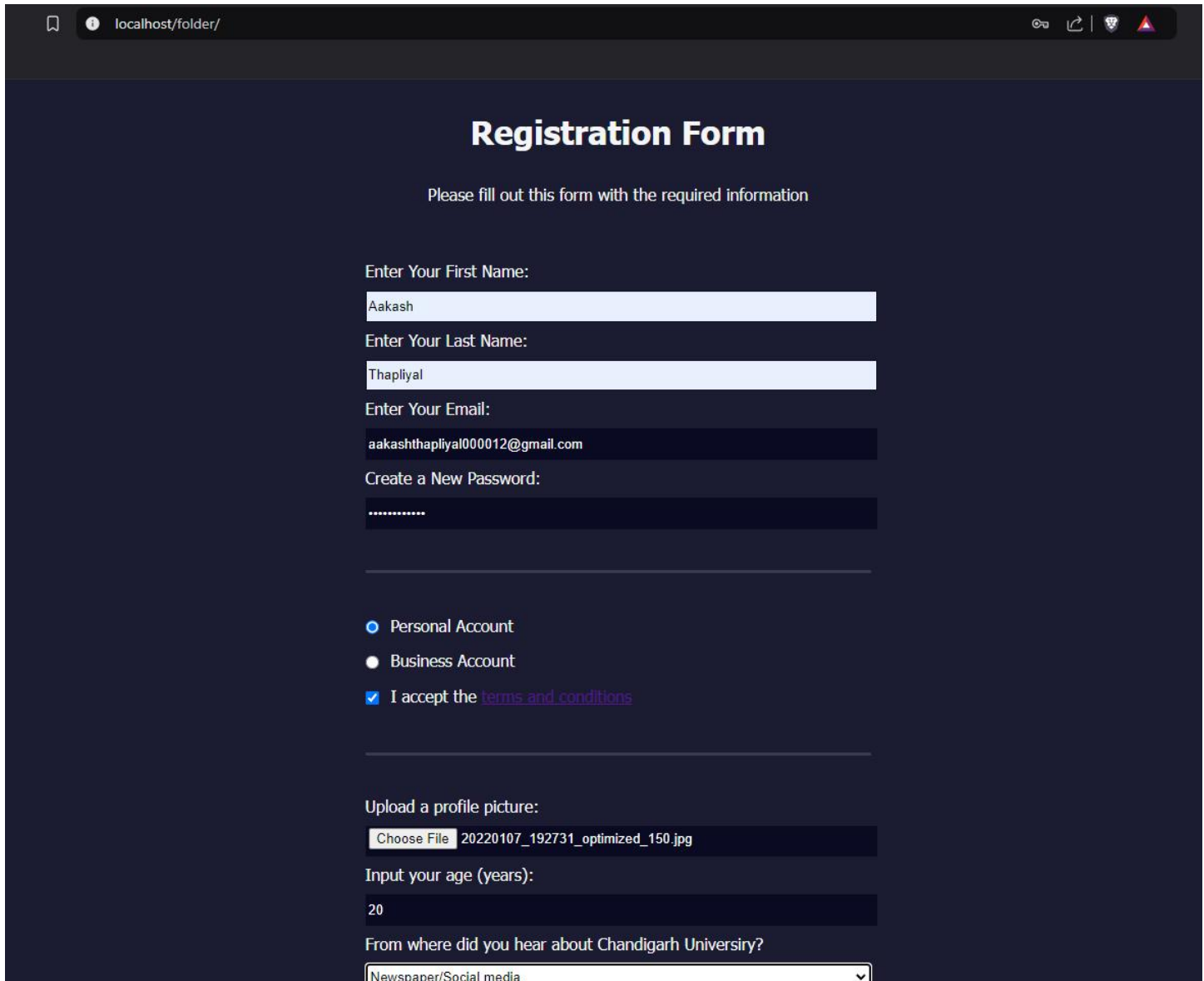
// Handle file upload
$profile_picture = null;
if (isset($_FILES['file']) && $_FILES['file']['error'] == 0) {
    $target_dir = "uploads/";
    if (!is_dir($target_dir)) {
        mkdir($target_dir, 0755, true);
    }
    $profile_picture = $target_dir . basename($_FILES["file"]["name"]);
    move_uploaded_file($_FILES["file"]["tmp_name"], $profile_picture);
}

// Insert data into the database
$sql = "INSERT INTO users (first_name, last_name, email, password, account_type, terms_accepted, profile_picture, age, referrer, bio)
VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";
$stmt = $conn->prepare($sql);
$stmt->bind_param("sssssisiss", $first_name, $last_name, $email, $password, $account_type, $terms_accepted, $profile_picture, $age, $referrer, $bio);

if ($stmt->execute()) {
    echo "Registration successful!";
} else {
    echo "Error: " . $stmt->error;
}

// Close connections
$stmt->close();
$conn->close();
?>
```

7. HTML Registration form:



Registration Form

Please fill out this form with the required information

Enter Your First Name:
Aakash

Enter Your Last Name:
Thapliyal

Enter Your Email:
aakashthapliyal000012@gmail.com

Create a New Password:
.....

☒ Personal Account
☐ Business Account
☒ I accept the [terms and conditions](#)

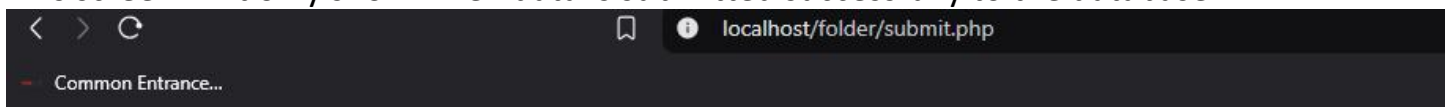
Upload a profile picture:
Choose File 20220107_192731_optimized_150.jpg

Input your age (years):
20

From where did you hear about Chandigarh University?
Newspaper/Social media

8. Acknowledgment after submission:

This screen will only show when data is submitted successfully to the database.



Common Entrance...

Registration successful!

9. Final database with data:

phpMyAdmin

Server: 127.0.0.1 • Database: registration_db • Table: users

Recent Favorites

New

information_schema

mysql

performance_schema

phpmyadmin

registration_db

New

users

Columns

Indexes

test

Extra options

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Triggers

			id	first_name	last_name	email	password	account_type	terms_accepted	profile_picture	age	referrer	bio			
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	1	Aarav	Sharma	aarav.sharma@example.com	hashed_password1	Personal Account	1	profile1.jpg	28	101	Software developer with 5 years of experience in b...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	2	Isha	Kapoor	isha.kapoor@example.com	hashed_password2	Business Account	1	profile2.jpg	32	102	Entrepreneur in the e-commerce space focusing on s...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	3	Ravi	Verma	ravi.verma@example.com	hashed_password3	Personal Account	1	profile3.jpg	26	103	Graphic designer with a passion for UI/UX design.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	4	Priya	Nair	priya.nair@example.com	hashed_password4	Personal Account	1	profile4.jpg	30	104	Freelance content writer specializing in tech and ...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	5	Anil	Mishra	anil.mishra@example.com	hashed_password5	Business Account	1	profile5.jpg	40	105	Experienced project manager in IT infrastructure p...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	6	Sana	Mehta	sana.mehta@example.com	hashed_password6	Personal Account	1	profile6.jpg	29	106	Digital marketing consultant with expertise in soc...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	7	Karan	Patel	karan.patel@example.com	hashed_password7	Business Account	1	profile7.jpg	33	107	Co-founder of a startup in the fintech space.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	8	Ritu	Jain	ritu.jain@example.com	hashed_password8	Personal Account	1	profile8.jpg	27	108	Software engineer with interests in AI and machine...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	9	Rohan	Gupta	rohan.gupta@example.com	hashed_password9	Personal Account	1	profile9.jpg	31	109	Full-stack developer with experience in MERN stack...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	10	Ananya	Reddy	ananya.reddy@example.com	hashed_password10	Business Account	1	profile10.jpg	35	110	Business analyst with a background in finance and ...
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	11	Siddharth	Desai	siddharth.desai1@example.com	password123	Personal Account	0	NULL	21	1001	Bio for Siddharth Desai.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	12	Ishaan	Rana	ishaan.rana2@example.com	password123	Personal Account	1	NULL	21	1002	Bio for Ishaan Rana.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	13	Aditi	Kapoor	aditi.kapoor3@example.com	password123	Personal Account	1	NULL	30	1003	Bio for Aditi Kapoor.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	14	Meera	Malhotra	meera.malhotra4@example.com	password123	Personal Account	1	NULL	23	1004	Bio for Meera Malhotra.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	15	Swati	Dutta	swati.dutta5@example.com	password123	Personal Account	0	NULL	55	1005	Bio for Swati Dutta.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	16	Meera	Dutta	meera.dutta6@example.com	password123	Personal Account	0	NULL	49	1006	Bio for Meera Dutta.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	17	Aryan	Mehta	aryan.mehta7@example.com	password123	Business Account	1	NULL	42	1007	Bio for Aryan Mehta.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	18	Dev	Reddy	dev.reddy8@example.com	password123	Business Account	1	NULL	20	1008	Bio for Dev Reddy.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	19	Ishita	Sharma	ishita.sharma9@example.com	password123	Business Account	0	NULL	21	1009	Bio for Ishita Sharma.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	20	Aditi	Saxena	aditi.saxena10@example.com	password123	Personal Account	1	NULL	44	1010	Bio for Aditi Saxena.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	21	Vihan	Pandey	vihan.pandey11@example.com	password123	Business Account	1	NULL	57	1011	Bio for Vihan Pandey.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	22	Vihan	Gupta	vihan.gupta12@example.com	password123	Personal Account	1	NULL	39	1012	Bio for Vihan Gupta.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	23	Krishna	Nair	krishna.nair13@example.com	password123	Personal Account	0	NULL	24	1013	Bio for Krishna Nair.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	24	Ishita	Joshi	ishita.joshi14@example.com	password123	Business Account	1	NULL	55	1014	Bio for Ishita Joshi.
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	25	Aditi	Dutta	aditi.dutta15@example.com	password123	Personal Account	0	NULL	47	1015	Bio for Aditi Dutta.

☐ Check all

With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

1

>

>>

Number of rows: 25

Filter rows: Search this table

Sort by key: None

10. Searching using SQL query

This query will search all the users whose age is greater than 30.

SELECT * FROM `users` WHERE age>30;

SELECT * FROM `users` WHERE age>30;

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Extra options

id

first_name

last_name

email

password

account_type

terms_accepted

profile_picture

age

referrer

bio

Edit

Copy

Delete

8

Ajay

Patil

ajay.patil@example.com

password123

Business Account

1

uploads/ajay_patil.jpg

33

2

Entrepreneur in training.

Edit

Copy

Delete

11

Aditi

Iyer

aditi.iyer@example.com

password123

Business Account

1

uploads/aditi_iyer.jpg

31

1

Public speaker and mentor.

Edit

Copy

Delete

12

Sandeep

Nair

sandeep.nair@example.com

password123

Personal Account

1

uploads/sandeep_nair.jpg

34

2

Yoga instructor.

Edit

Copy

Delete

16

Aman

Bhatt

aman.bhatt@example.com

password123

Business Account

1

uploads/aman_bhatt.jpg

32

4

Runs a digital marketing agency

Edit

Copy

Delete

21

Kavita

Raj

kavita.raj@example.com

password123

Personal Account

1

uploads/kavita_raj.jpg

31

1

Volunteer at animal shelters.

Edit

Copy

Delete

22

Naveen

Shinde

naveen.shinde@example.com

password123

Business Account

1

uploads/naveen_shinde.jpg

33

2

Owns an event management firm.

Edit

Copy

Delete

27

Vijay

Saxena

vijay.saxena@example.com

password123

Personal Account

1

uploads/vijay_saxena.jpg

32

3

Enjoys adventure sports.

Edit

Copy

Delete

30

Jane

Smith

janesmith@example.com

securepass456

Business Account

1

jane_smith.jpg

35

Friend

Freelance designer and entrepreneur.

Edit

Copy

Delete

33

William

Davis

williamd@example.com

passmeplease

Business Account

1

william_davis.jpg

42

LinkedIn

Marketing consultant and public speaker.

Edit

Copy

Delete

34

Olivia

Martinez

oliviam@example.com

passwordolivia

Personal Account

1

olivia_martinez.jpg

31

Google

Tech lover and aspiring developer.

Edit

Copy

Delete

35

James

Wilson

jamesw@example.com

wilsonpassword

Business Account

1

james_wilson.jpg

39

Company Website

HR specialist with a knack for team-building.

Edit

Copy

Delete

37

Liam

Thomas

liamt@example.com

liamttopsecure

Personal Account

1

liam_thomas.jpg

33

Twitter

Enjoys outdoor sports and reading science fiction.

Edit

Copy

Delete

38

Isabella

Garcia

isabellag@example.com

passme

Business Account

1

isabella_garcia.jpg

45

LinkedIn

Experienced project manager in tech industry.

Check all

With selected:

Edit

Copy

Delete

Export

11. Testing the Application

1. Open your web browser and navigate to <http://localhost/registration.html>.
2. Fill in the registration form and submit it.
3. Upon successful submission, you should see a success message, and the data will be stored in the users table of your registration_db database.

12. Conclusion

This project demonstrates a simple registration form using HTML, PHP, and MySQL. It provides a foundational understanding of how to handle form submissions and interact with a database. Further enhancements could include validation, error handling, and more complex user management features.

13. Future Work

- Implement user input validation and error handling.
- Add features for user login and session management.
- Improve UI/UX with advanced front-end frameworks.

13. Learning outcomes (What I have learnt):

Understanding Form Handling: Learners will understand how to create and handle user input through HTML forms and process it using PHP on the server side.

Database Connectivity: Learners will gain knowledge of connecting PHP scripts to MySQL databases, performing basic operations like inserting data into tables.

Security Practices: Learners will be introduced to basic security practices, such as password hashing using PHP, to ensure user data protection.