MASTERING WEB DEVELOPMENT: A STEP-BY-STEP GUIDE TO CREATING WEBSITES WITH VS CODE, XAMPP, GIT, AND MYSQL

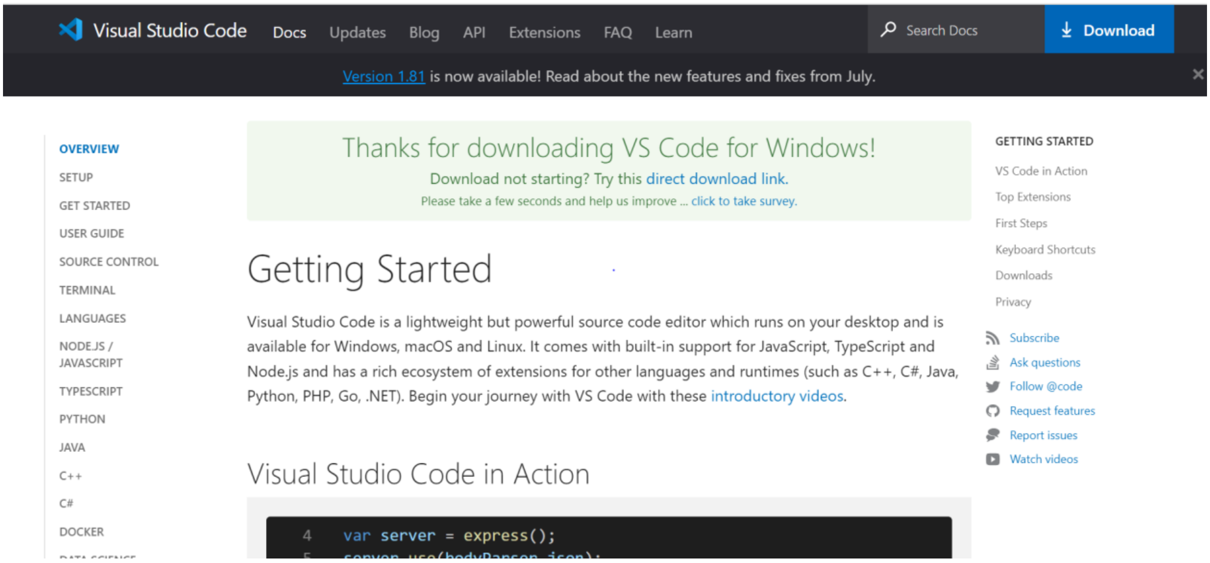
This comprehensive guide will walk you through the process of creating a website from scratch, integrating it with XAMPP for local development, using Git and GitHub for version control, and setting up a MySQL database for managing job listings. We'll cover each step in detail to help you build a functional and interactive website.

Step 1: Installing Required Tools

1. **Install Visual Studio Code (VS Code)**:

   - Download VS Code from the official website (https://code.visualstudio.com/).

   - Follow the installation instructions for your operating system.



Version 1.81 is now available! Read about the new features and fixes from July.

Thanks for downloading VS Code for Windows!

Download not starting? Try this direct download link.

Please take a few seconds and help us improve ... click to take survey.

Getting Started

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET). Begin your journey with VS Code with these introductory videos.

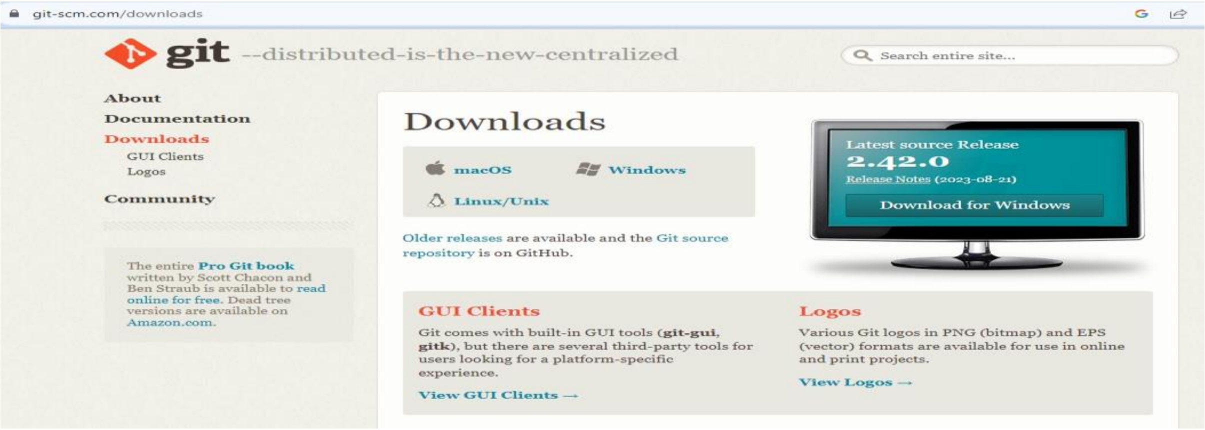
Visual Studio Code in Action

```
var server = express();
```

2. **Install Git**:

   - Download Git from the official website (https://git-scm.com/).

   - Follow the installation instructions for your operating system.



The entire Pro Git book written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.

Downloads

Older releases are available and the Git source repository is on GitHub.

Latest source Release 2.42.0 Release Notes (2023-08-21)

GUI Clients

Git comes with built-in GUI tools (git-gui, gitk), but there are several third-party tools for users looking for a platform-specific experience.

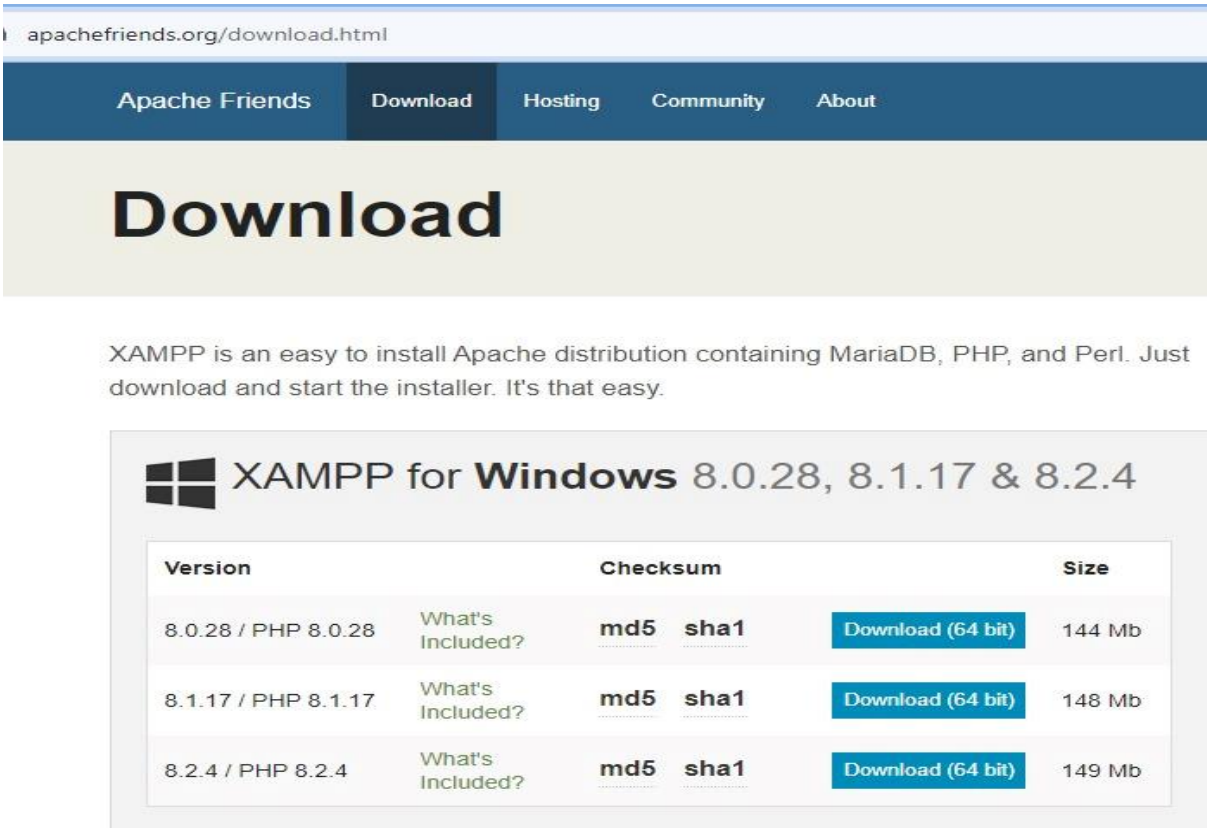
Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

3. **Install XAMPP**:

- Download XAMPP from the official website (https://www.apachefriends.org/).

- Run the installer and choose the components (Apache, MySQL, PHP, etc.) you need.



Download

XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy.

XAMPP for **Windows** 8.0.28, 8.1.17 & 8.2.4

Version		Checksum			Size
8.0.28 / PHP 8.0.28	What's Included?	md5	sha1	Download (64 bit)	144 Mb
8.1.17 / PHP 8.1.17	What's Included?	md5	sha1	Download (64 bit)	148 Mb
8.2.4 / PHP 8.2.4	What's Included?	md5	sha1	Download (64 bit)	149 Mb

Step 2: Setting Up Your Website and Front-End Development

1-Creating Your Website Files:

- Create a new folder for your website on your computer.
- In this folder, create an index.html file that serves as the main webpage.
- Create a style.css file for styling and a mediaqueries.css file for responsive design.
- Use these files to structure your website's layout and design before integrating with XAMPP.

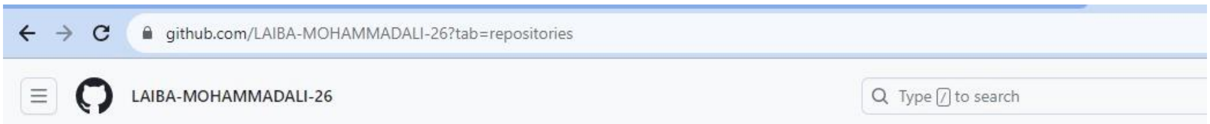
2-Opening Front-End with Live Server:

- Install the "Live Server" extension in VS Code.
- Open your index.html file in VS Code.
- Right-click within the file and select "Open with Live Server."
- This will launch a local development server that automatically refreshes as you make changes.

Step 3: Managing Your Website with Git and GitHub

1. **Creating a GitHub Account**:

- Sign up for a GitHub account (https://github.com/) if you don't have one.



2. **Cloning a Repository:**

- Navigate to a GitHub repository you want to use.
- Copy the repository URL.
- Open your command-line interface and use `git clone <repository-url>`.

url :https://github.com/LAIBA-MOHAMMADALI-26/CareerPortal

Step 4: Integrating XAMPP with Your Website

1. **Moving Your Website Files to XAMPP**:

- Move your website folder to the XAMPP "htdocs" directory (e.g., `C:\xampp\htdocs\` on Windows).

2. **Starting XAMPP's Apache and MySQL**:

- Open the XAMPP Control Panel and start the Apache and MySQL modules.

Step 5: Setting Up a MySQL Database for Job Listings

1. **Accessing phpMyAdmin**:

- Open your web browser and go to `http://localhost/phpmyadmin`.

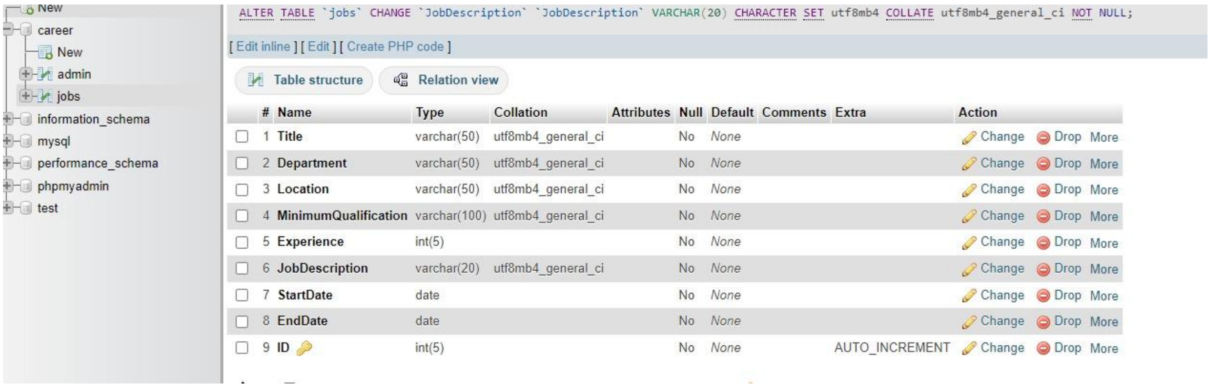
2. **Creating a Database**:

- Click on "Databases" and create a new database named `career`.

3. **Creating a Table**:

- Within the `career` database, click the "SQL" tab.

- Paste the provided SQL query to create the `jobs` table with necessary columns.



```
ALTER TABLE `jobs` CHANGE `JobDescription` `JobDescription` VARCHAR(20) CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci NOT NULL;
```

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
□	1	Title	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
□	2	Department	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
□	3	Location	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
□	4	MinimumQualification	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
□	5	Experience	int(5)			No	None			Change Drop More
□	6	JobDescription	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
□	7	StartDate	date			No	None			Change Drop More
□	8	EndDate	date			No	None			Change Drop More
□	9	ID	int(5)			No	None		AUTO_INCREMENT	Change Drop More

Step 6: Displaying Job Listings and Applying Styling

1. **Job Listing Page (`joblisting.php`)**:

- Create a page to display job listings fetched from the `jobs` table.

2. **Styling and Responsiveness**:

- Apply consistent styling to the job listing page using `style.css` and `mediaqueries.css`.

. **Accessing Your Website**:

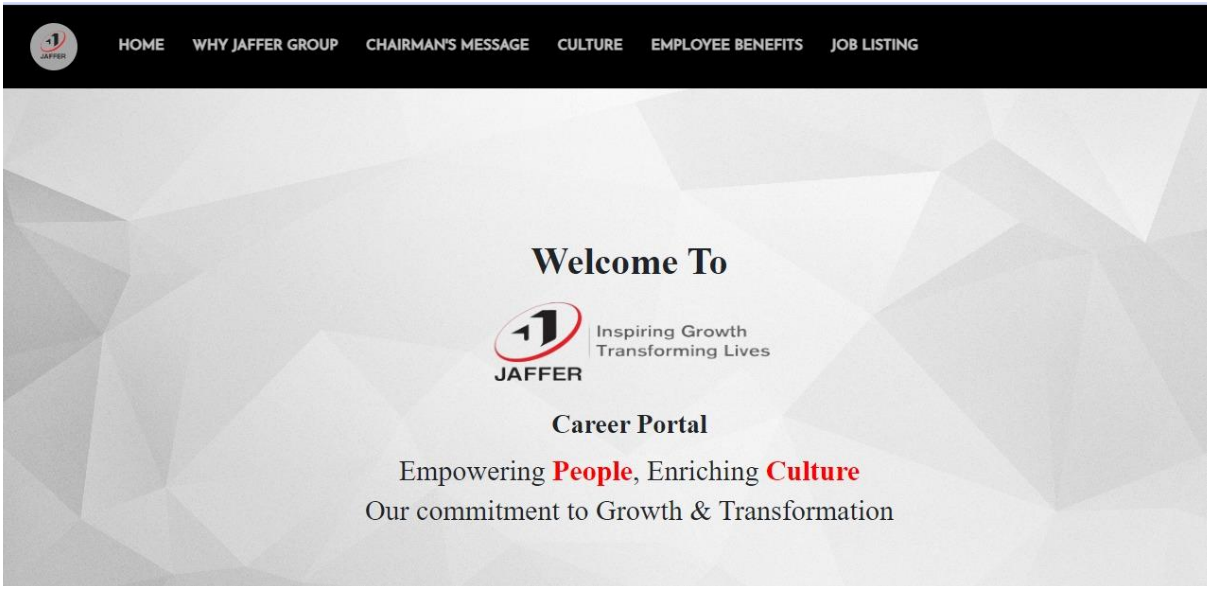
- Open your web browser and type `http://localhost/folder-name/index.html`.

- Replace `folder-name` with the name of your website folder.

By following this comprehensive guide, you've successfully created a website, integrated it with XAMPP, used Git and GitHub for version control, and set up a MySQL database for managing job listings. This project showcases your ability to design, develop, and manage a dynamic and interactive website. Continue exploring and expanding your skills to create even more engaging web experiences!

User interface:

Main Page:



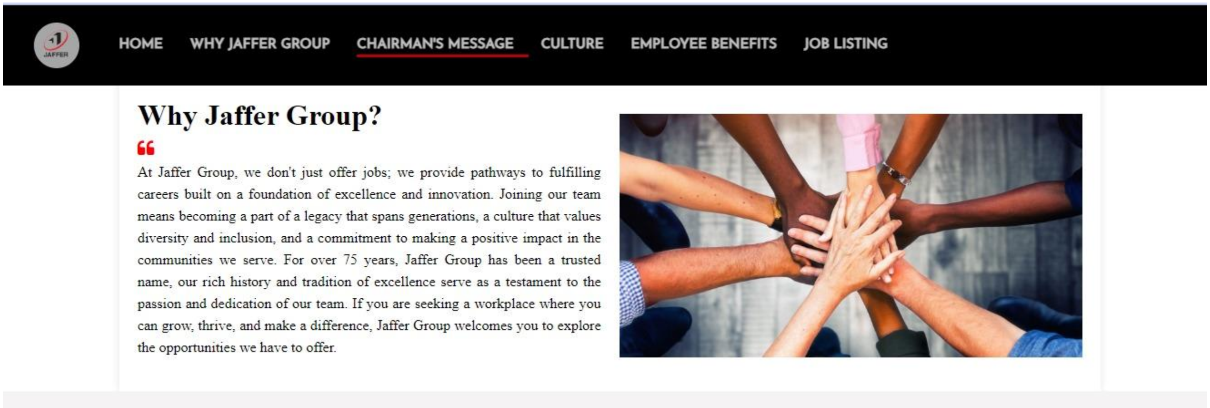
Welcome To

Career Portal

Empowering **People**, Enriching **Culture**

Our commitment to Growth & Transformation

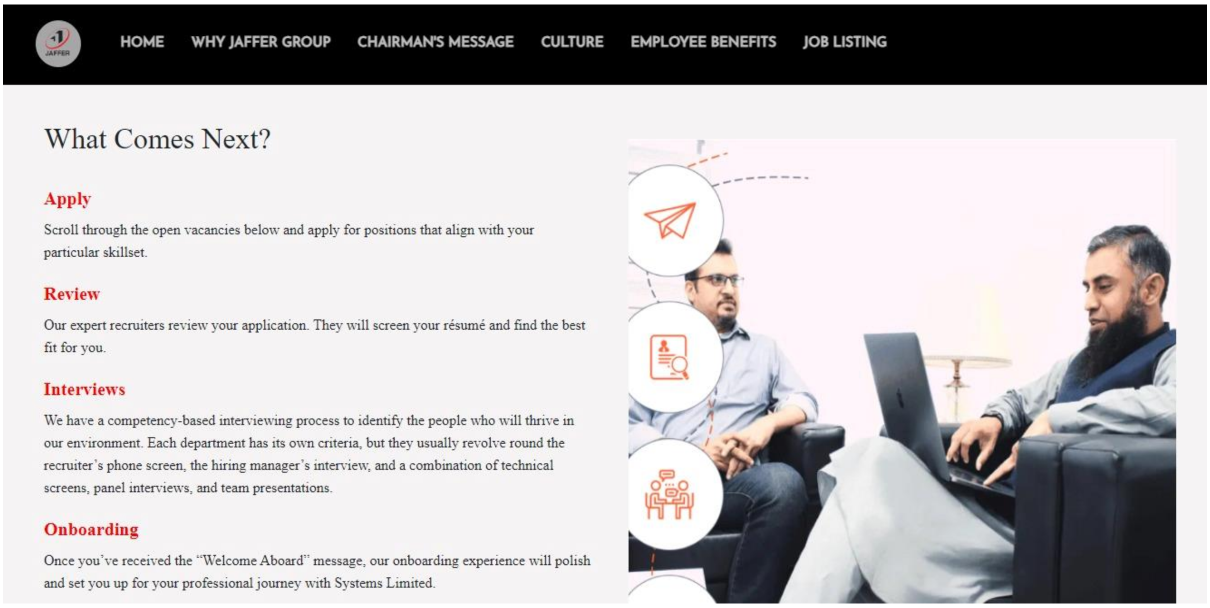
Sub Section 1:



Why Jaffer Group?

At Jaffer Group, we don't just offer jobs; we provide pathways to fulfilling careers built on a foundation of excellence and innovation. Joining our team means becoming a part of a legacy that spans generations, a culture that values diversity and inclusion, and a commitment to making a positive impact in the communities we serve. For over 75 years, Jaffer Group has been a trusted name, our rich history and tradition of excellence serve as a testament to the passion and dedication of our team. If you are seeking a workplace where you can grow, thrive, and make a difference, Jaffer Group welcomes you to explore the opportunities we have to offer.

Sub Section 2:



What Comes Next?

Apply

Scroll through the open vacancies below and apply for positions that align with your particular skillset.

Review

Our expert recruiters review your application. They will screen your résumé and find the best fit for you.

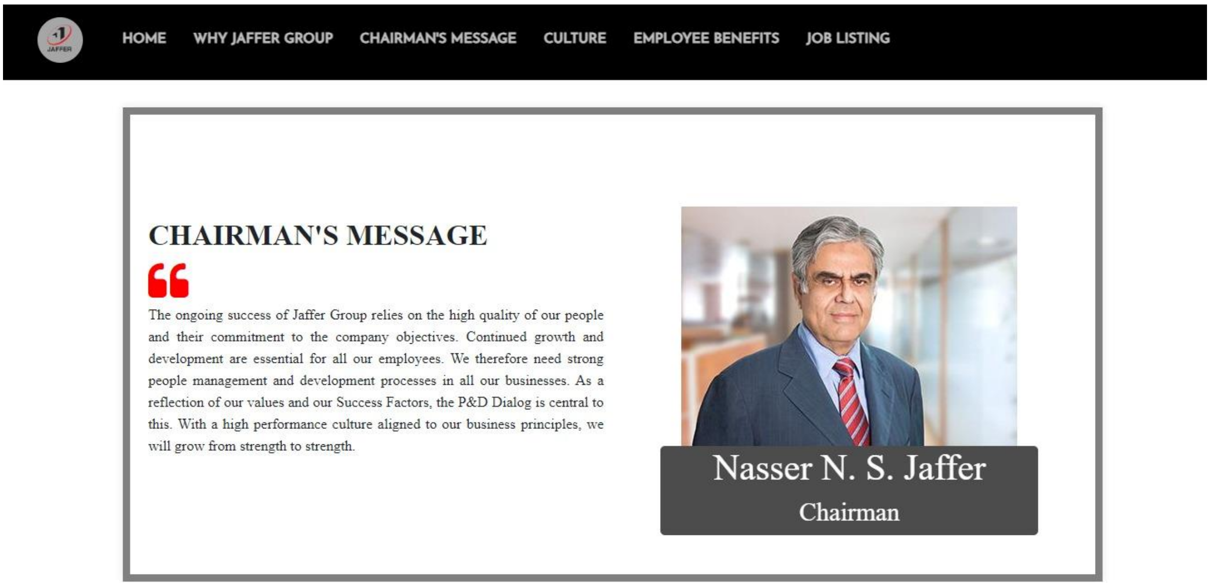
Interviews

We have a competency-based interviewing process to identify the people who will thrive in our environment. Each department has its own criteria, but they usually revolve round the recruiter's phone screen, the hiring manager's interview, and a combination of technical screens, panel interviews, and team presentations.

Onboarding

Once you've received the "Welcome Aboard" message, our onboarding experience will polish and set you up for your professional journey with Systems Limited.

Sub Section 3:

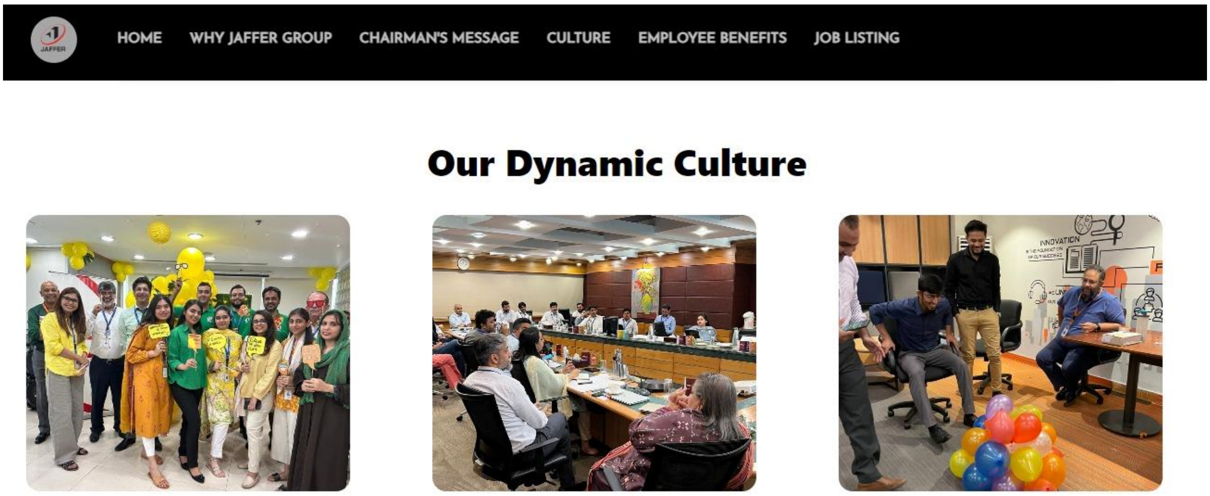


CHAIRMAN'S MESSAGE

The ongoing success of Jaffer Group relies on the high quality of our people and their commitment to the company objectives. Continued growth and development are essential for all our employees. We therefore need strong people management and development processes in all our businesses. As a reflection of our values and our Success Factors, the P&D Dialog is central to this. With a high performance culture aligned to our business principles, we will grow from strength to strength.

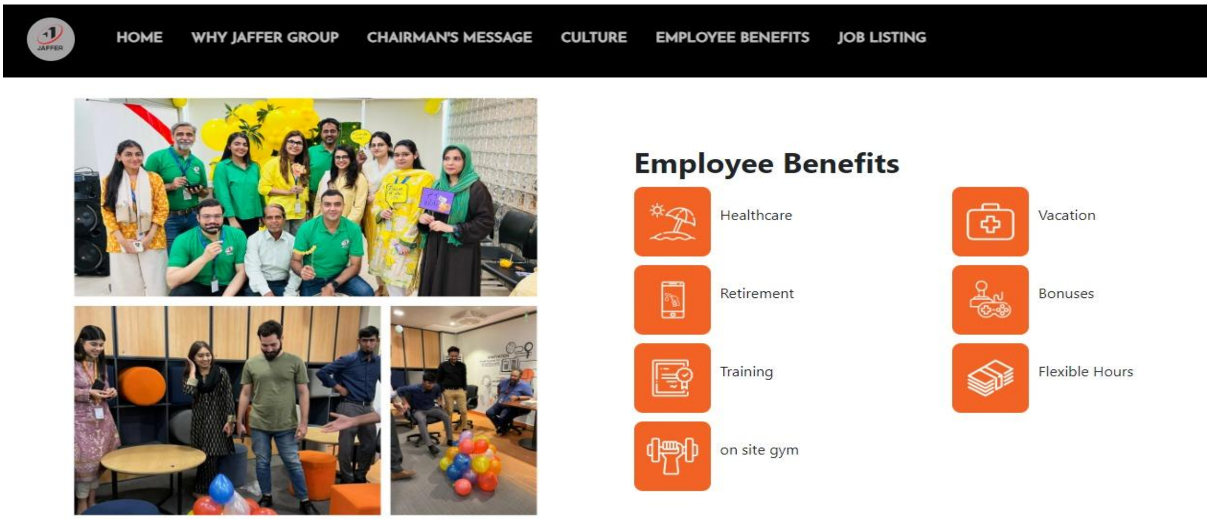
Nasser N. S. Jaffer
Chairman

Sub Section 4:



Our Dynamic Culture

Sub Section 5:



Employee Benefits

- Healthcare
- Vacation
- Retirement
- Bonuses
- Training
- Flexible Hours
- on site gym

Creating and Managing a Job Portal with User Authentication: A Layperson's Guide

Step 1: Starting XAMPP Server

1. Open your computer's control panel.

2. Look for the XAMPP Control Panel and open it.

3. Start the Apache and MySQL services by clicking on their "Start" buttons.

Step 2: Creating a New Table in PHPMyAdmin

1. Open a web browser.

2. In the browser's address bar, type "localhost/phpmyadmin" and press Enter.

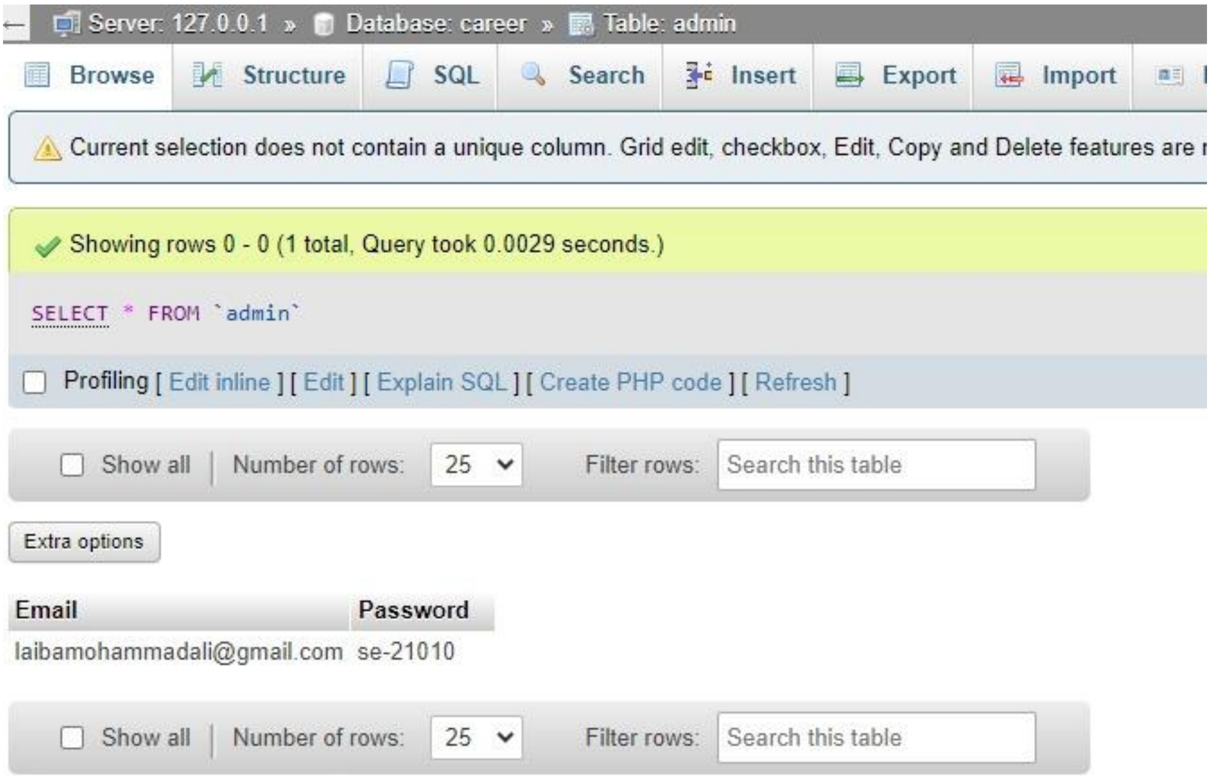
3. Log in to PHPMyAdmin if needed.

4. Choose the "career" database from the list on the left.

5. Find an option to create a new table, name it "admin."

6. Define the columns (attributes) for the table, such as "username," "password," etc.

7. Save the changes to create the "admin" table.


Server: 127.0.0.1 » Database: career » Table: admin
Browse
Structure
SQL
Search
Insert
Export
Import
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
☐ Show all
Number of rows: 25
Filter rows: Search this table
Extra options

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are

✓ Showing rows 0 - 0 (1 total, Query took 0.0029 seconds.)

```
SELECT * FROM `admin`
```

Email	Password
laibamohammadali@gmail.com	se-21010

Step 3: Preparing Your Workspace

1. Open the "htdocs" folder inside your XAMPP installation directory.

2. Create a new folder named "admin" to hold your files.

Step 4: Cloning the Repository from GitHub

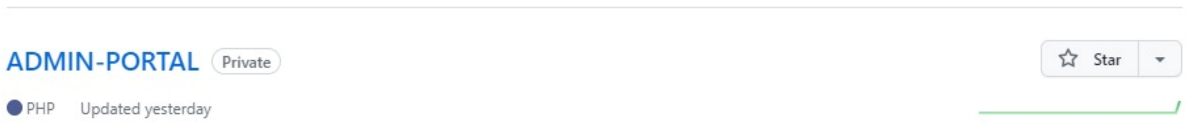
1. Open Visual Studio Code (VS Code) on your computer.

2. Use "File" > "Open Folder" and select the "admin" folder you created.

3. Open the integrated terminal in VS Code.

4. Type `git clone` followed by the GitHub repository URL and press Enter.

https://github.com/LAIBA-MOHAMMADALI-26/ADMIN-PORTAL



Step 5: Connecting to the Database

1. Open the "connection.php" file in VS Code.

2. Inside this file, you establish a connection to the database using your credentials.

Step 6: Implementing User Authentication

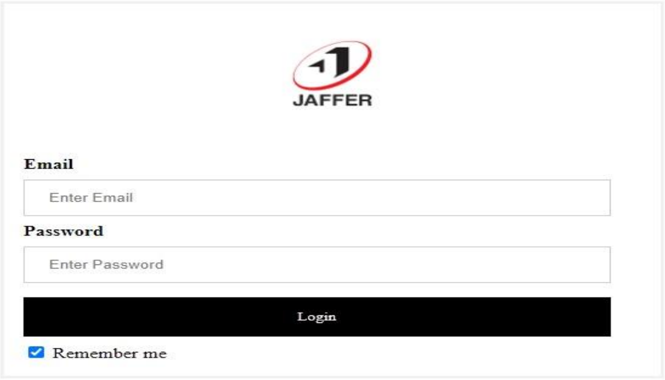
1. Create a new file named "login.php" in your "admin" folder.

2. In "login.php," users will enter their email and password.

3. PHP code will validate the email and password against the database records.

4. If the email exists and the password matches, set a session variable indicating successful login.

5. Redirect the user to the main portal page ("admin.php") after successful login

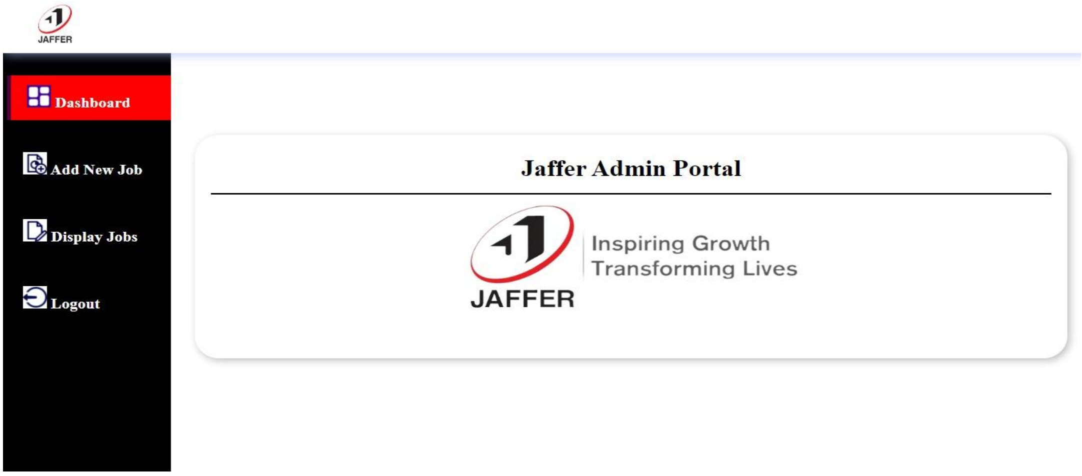


Step 7: Admin Portal Main Page

1. Open the "admin.php" file in VS Code.

2. If the user is logged in (session variable indicates so), show options to manage jobs (display, add, edit, delete).

3. If not logged in, show a message like "Please log in to access the admin portal."



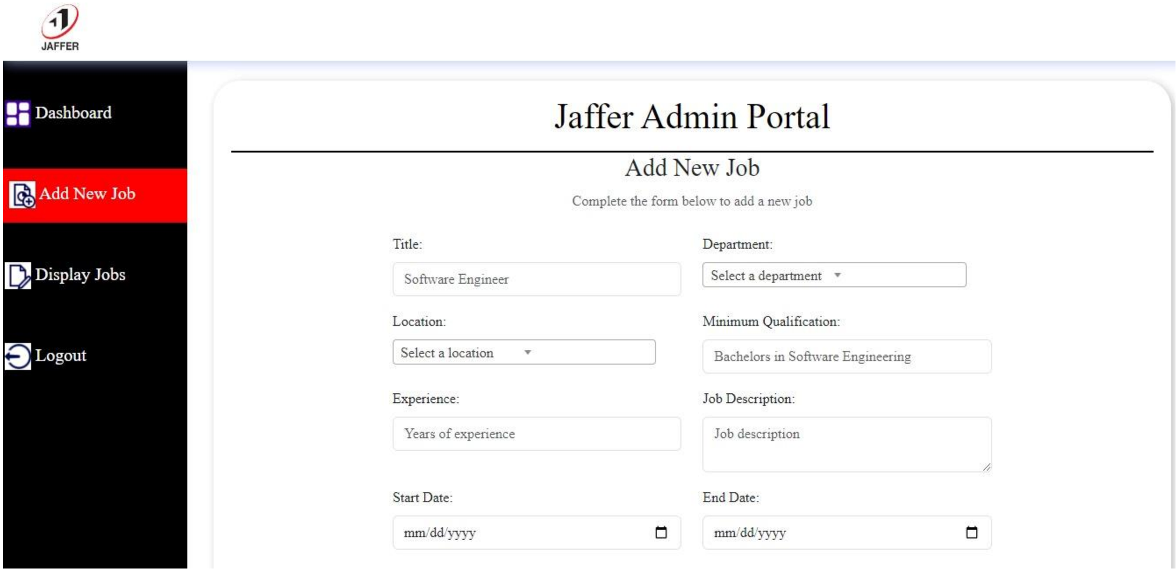
Step 8: Managing Jobs

1. In the admin portal, users can click "Add New Job" to open the "addnew.php" form.

2. Users can enter job details in the form and click "Save" to add the job to the database.

3. Users can click "Display Jobs" to view a list of all jobs in the database.

4. For each displayed job, users have options to "Edit" or "Delete."



Jaffer Admin Portal

Add New Job

Complete the form below to add a new job

Title: Software Engineer

Department: Select a department ▾

Location: Select a location ▾

Minimum Qualification: Bachelors in Software Engineering

Experience: Years of experience

Job Description: Job description

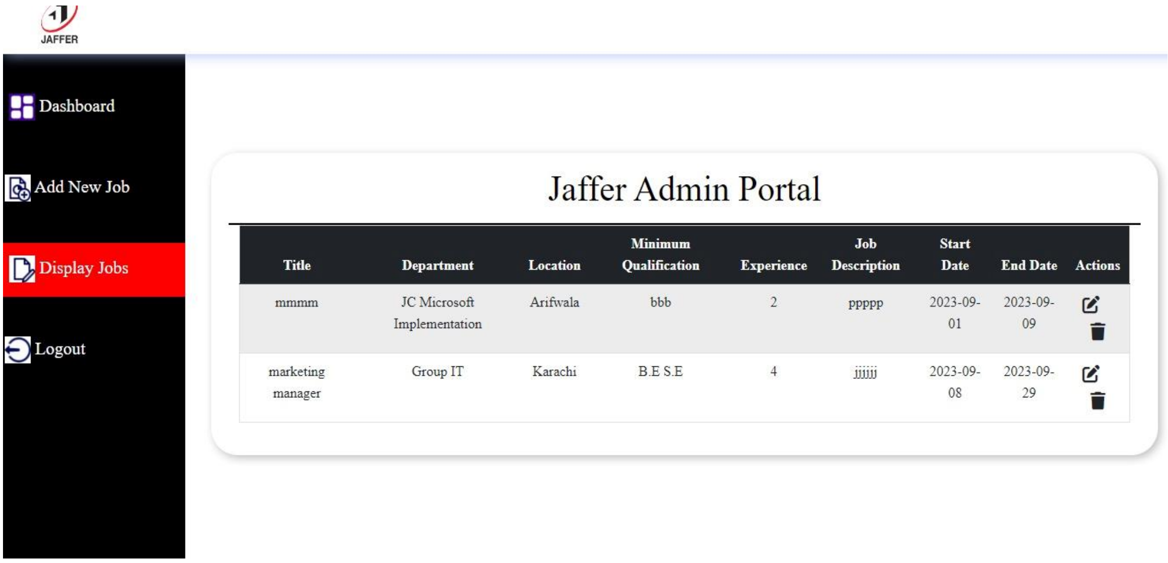
Start Date: mm/dd/yyyy

End Date: mm/dd/yyyy

Step 9: Editing a Job

1. When users click "Edit" for a specific job, the "edit.php" form will be displayed.

2. Users can edit job details in the form and click "Save" to update the job in the database.



Jaffer Admin Portal

Title	Department	Location	Minimum Qualification	Experience	Job Description	Start Date	End Date	Actions
mmmm	JC Microsoft Implementation	Arifwala	bbb	2	ppppp	2023-09-01	2023-09-09	✎ 🗑
marketing manager	Group IT	Karachi	B.E S.E	4	jjjjjj	2023-09-08	2023-09-29	✎ 🗑

Step 10: Deleting a Job

1. When users click "Delete" for a specific job, the job will be deleted from the database.

Step 11: Adding Logout Functionality

To allow users to log out from the job portal, follow these steps:

1. Inside "logout.php," implement the code to handle user logout.
2. When users click on a "Logout" link/button in the admin portal
3. The user will be logout from the portal

Remember, user authentication, secure data handling, and proper validation are critical for the functionality and security of your job portal. Always follow best practices to protect user data and ensure the smooth operation of your application.