A Project Report On

**** Internship In Techmicra IT Solution ****

Post-Graduation

MCA

Silver Oak College of Computer Application

Submitted to:

SILVER OAK UNIVERSITY

EDUCATION TO INNOVATION

Department of Masters

Silver Oak College of Computer Application

Silver Oak University

Submitted By:

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Department of Masters

College of Computer Application

Preface

As a student of Masters of Computer Application according to the syllabus subscribed by Silver OAK University. In 4th Semester of M.C.A. To prepare a project on any Particular subject of Student choice. The project should be selected on precise subject that will fulfil the requirements.

The main objective of the project is to develop Awareness regarding Application of Theories in the modern world of Information Technology.

Here the project report Training is under taken at Silver Oak College of Computer Application. Project report has been prepared on the base of information collected which is a result of hard work done by us.

We have taken almost care that the information provided in the project is true and project is in smooth running condition and Error free we sincerely apologies if any wrong with the **"Internship In Techmicra IT Solution"** then is given we have tried our level best to provide all the necessary information as per the syllabus.

Acknowledgement

We Express Our Heart Gratitude to A Number of People Who Extended Their Full Support and Cooperation in Developing This Project. Firstly, We Would Like to Take This Opportunity to Thank Our College **"Silver Oak University"** For Giving Us This Opportunity And A Platform For Discovering And Developing Our potential, The King Of Experience That We Have Received While Making This Project Report Is So Immense That Narrating That In Few Word Is Difficult.

After Putting in Such a Hard-work We Have Realized That Takes To Work In Company And Do A Project. Our Project name is ***"Internship in Techmicra IT Solution"*** And Colleagues have been Great Source of Help without Them We Were Unable to Do This Project. There for our Project. As If Small Drop of Water of Sea. We Have Learnt Many Things from Being a Part of Concept Family.

After That Our Heartiest Thanks to Our Guide as Well as Respected Mentor ***"Nilesh Brahmkshatriya"*** For Entrusting Upon Us the Responsibility and Acting as Ray of Light in Darkness. We Find Our Self-Short of Words to Describe Our Feeling for the Role she played Of Friend, A Philosopher and Guide, Whenever We Were in Need.

Lastly, We Are Thank Full to Our Parents Without Their Blessing, Love, And Support We Are Unable to Traverse Through This Most Significant Stage of Life. And also, We Would Like to Take This Opportunity to Express Our Regards to All Friends and Faculties Who Have Helped Us Directly Or Indirectly During The Execution Of The Project. We Are Privileged and Thankful to All In Bringing Out Errors And Shortcoming.

Index

1. Project Title:

A Content Management System (CMS) is software that helps users create, manage, and modify content on a website without the need for specialized technical knowledge. Essentially, a CMS provides a user-friendly interface that lets you build and manage a website without needing to write code from scratch. It consists of two core parts:

- A Content Management Application (CMA), which allows you to add and manage content on your site.
- A Content Delivery Application (CDA), which takes the content you input in the CMA, stores it properly, and makes it visible to your visitors.

2. Problem Definition:

The problem definition for a Content Management System (CMS) typically addresses the challenges faced by individuals or organizations in managing digital content. A CMS aims to solve issues such as:

- Content Creation: Simplifying the process of creating content without needing technical expertise.
- Content Storage: Organizing content in a way that is secure, scalable, and easily retrievable.
- Content Publishing: Streamlining the process of making content live on a website with minimal steps.
- Content Modification: Allowing for easy updates and edits to content, often with version control.
- User Access Control: Managing permissions for different users to access certain content or features within the CMS.
- Content Distribution: Ensuring content can be delivered across various channels and devices efficiently.

3. Need of Project:

The need for a CMS project arises from the necessity to efficiently manage and deliver content. Here are some key reasons why a CMS project is essential:

Streamlined Content Management: A CMS allows for easy content creation, editing, and deletion, making it simpler for non-technical users to maintain website content.

Collaboration: Multiple users can work on content simultaneously, with various permission levels to control access and editing rights.

Consistency: Ensures a consistent appearance for all the content across the website, which is crucial for brand identity and user experience.

SEO Optimization: A good CMS will support SEO best practices to help improve the visibility of the website in search engine results.

Cost-Effectiveness: Reduces the need for expensive technical resources for everyday content updates and site maintenance.

Scalability: Can grow with the business, accommodating more content and more complex functionalities as needed.

Regulatory Compliance: Helps in adhering to data protection and privacy laws by managing how content is stored and displayed.

4. Requirement:

4.1 Software (Client side and Server side):

- Operating System: windows 10 or above

4.2 Hardware (Client side and Server side):

- Minimum 4GB RAM is required.
- Minimum Storage 256 GB required

5. Technology used:

- Font End: HTML5, CSS3, JS, Bootstrap, jQuery
- Back End: PHP, MY SQL.

6. Functional and Non- Functional Dependency:

Functional Dependencies:

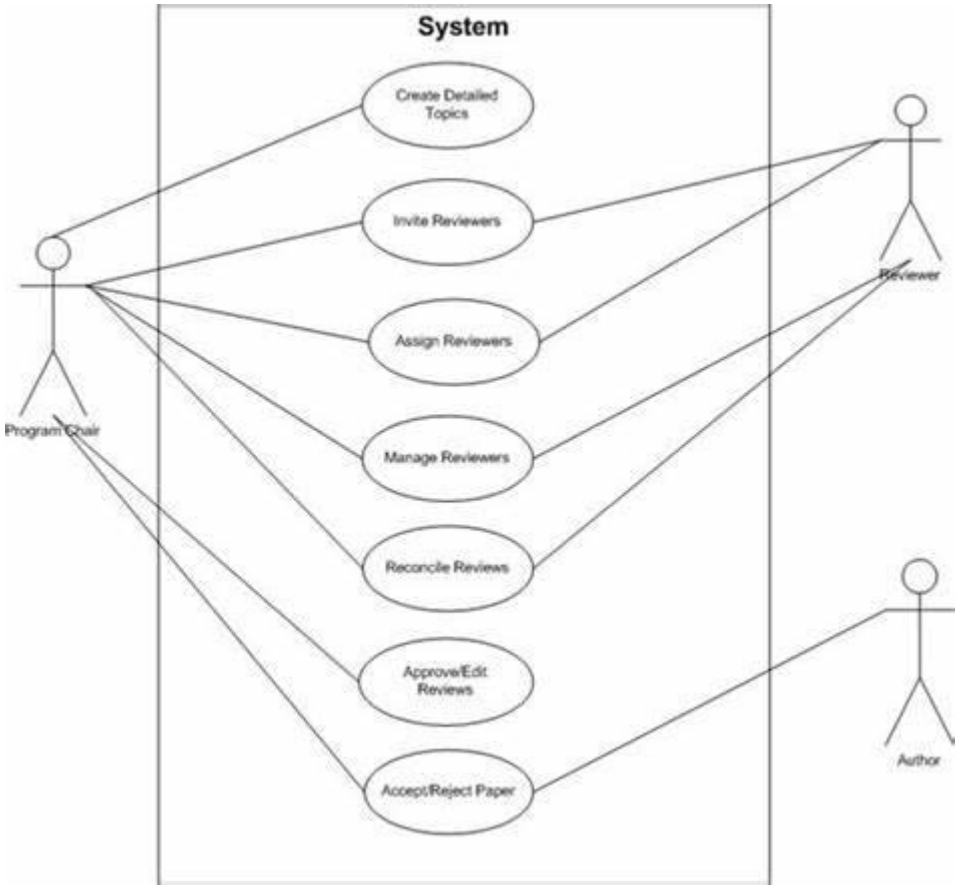
- **Content Operations:** The ability to create, read, update, and delete content.
- **User Management:** Managing user roles and access permissions.
- **Content Workflow:** A system for reviewing, approving, and publishing content.
- **Template Management:** Handling the design templates for content presentation.
- **Media Management:** Uploading and managing media files like images and videos.
- **Search Functionality:** Enabling users to search for content within the CMS.
- **Version Control:** Tracking changes to content over time.

Non-Functional Dependencies:

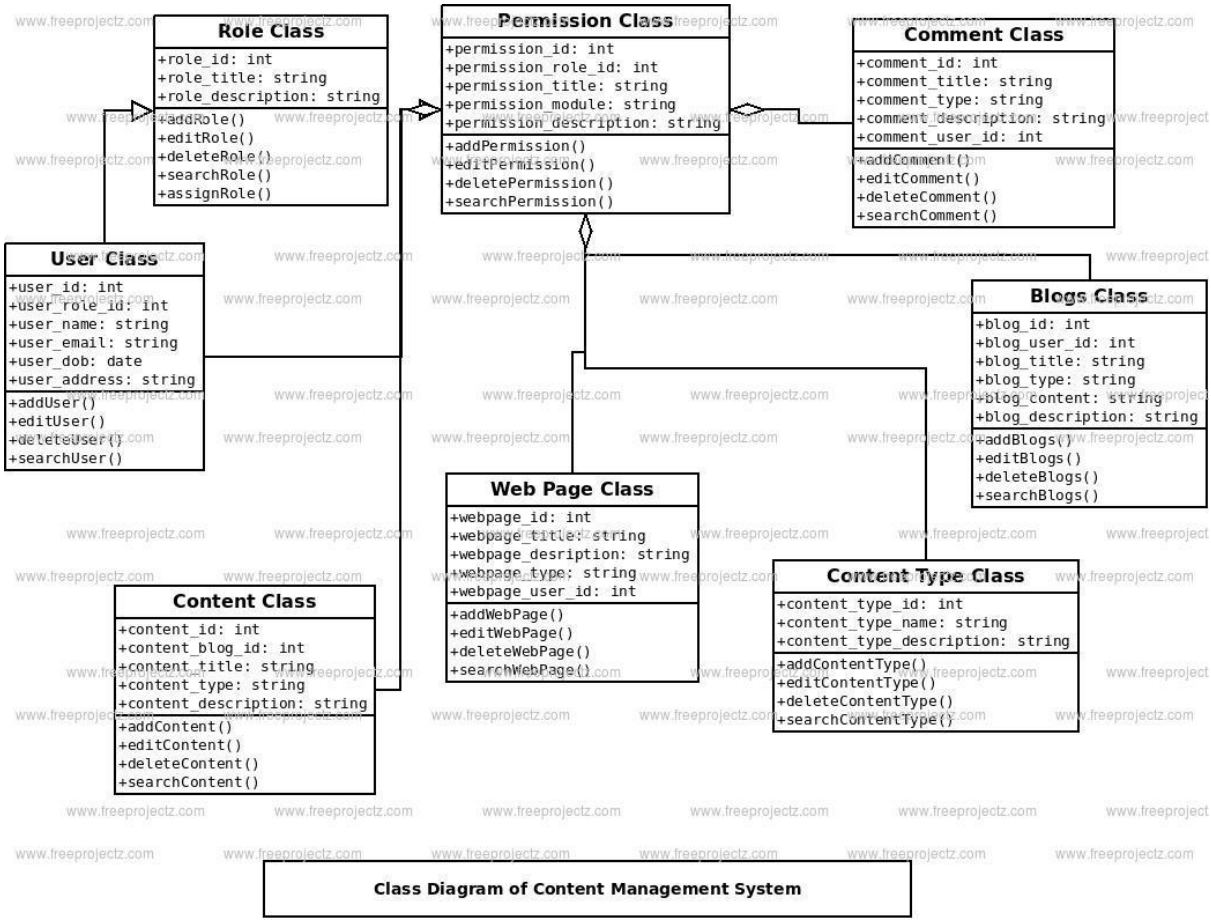
- **Performance:** The CMS should load content quickly and handle traffic efficiently.
- **Scalability:** It should be able to scale with the growth of content and users.
- **Security:** Protecting against unauthorized access and data breaches.
- **Usability:** The interface should be user-friendly and intuitive.
- **Compatibility:** Working well across different browsers and devices.
- **Maintainability:** The system should be easy to maintain and update.
- **Compliance:** Adhering to relevant legal and regulatory standards.

8 Design:

8.1 USE CASE Diagram

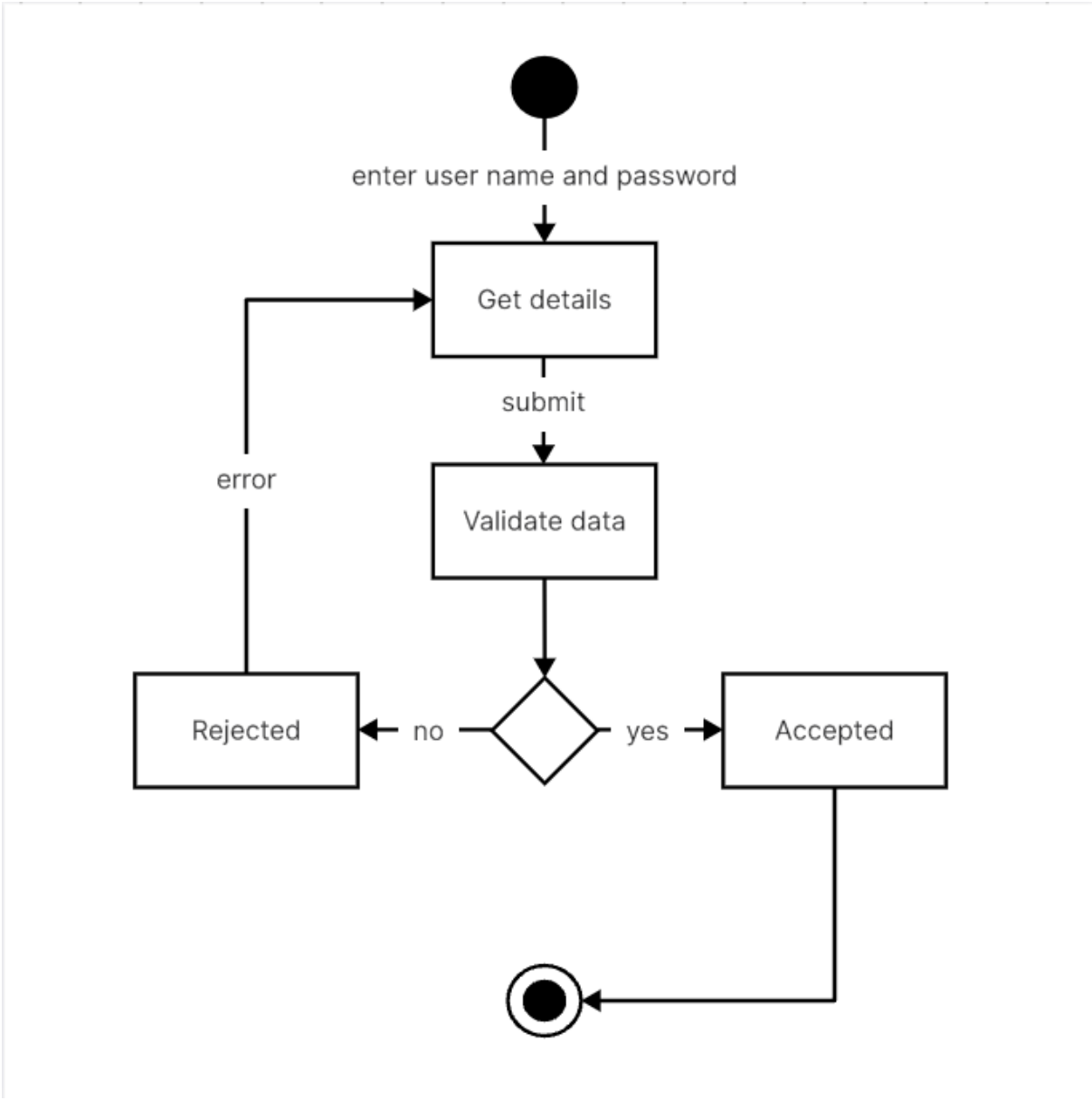


8.2 Class Diagram:

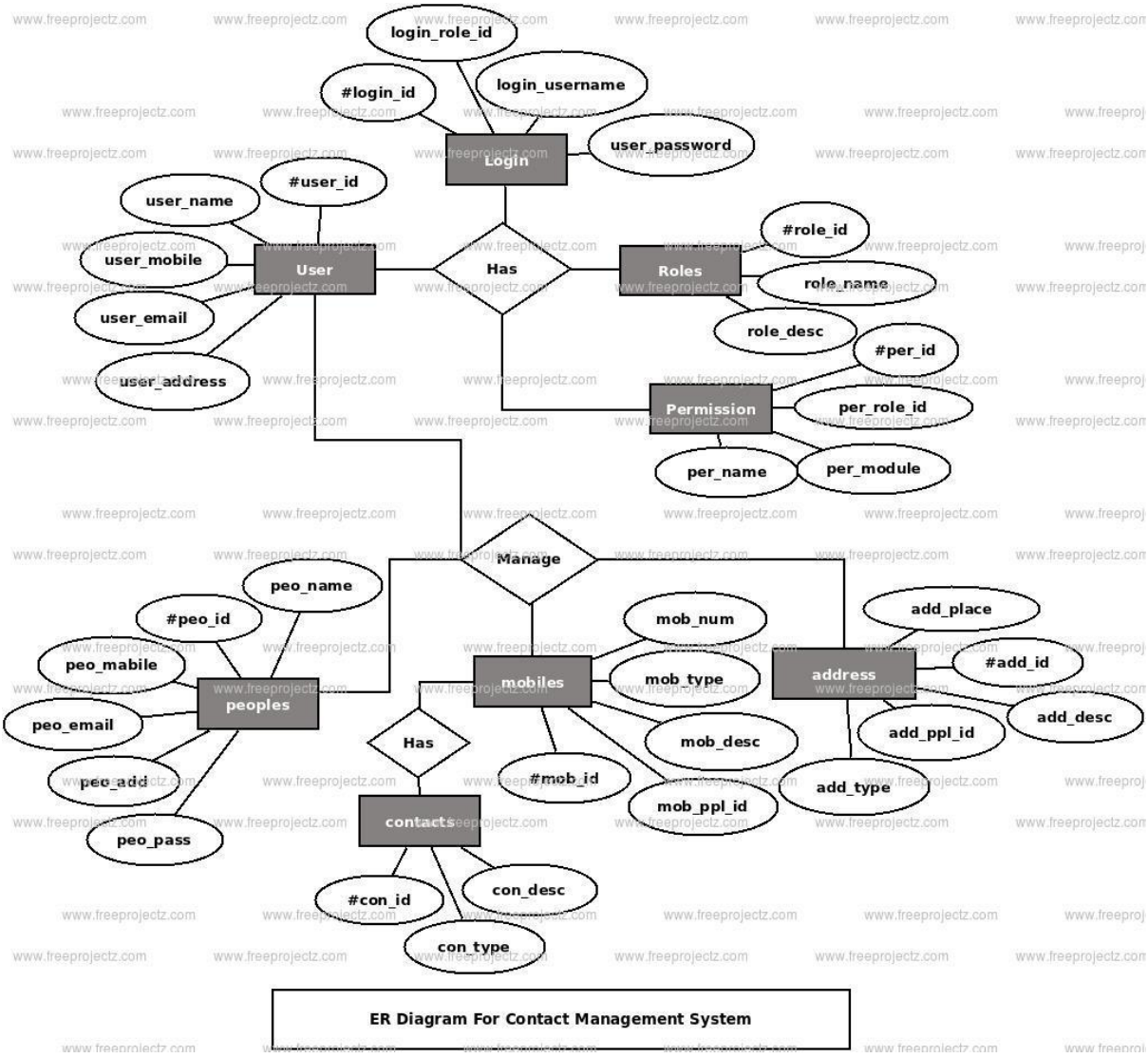


Class Diagram of Content Management System

8.3 Activity Diagram:



8.4. ER Diagram:



ER Diagram For Contact Management System

Introduction:

Day 1.

- **HTML (Hypertext Markup Language)** is the standard markup language used to create web pages. It provides the structure of a webpage, allowing you to define elements like headings, paragraphs, links, and images.
- **CSS (Cascading Style Sheets)** is used to style and layout web pages. It lets you apply styles to HTML elements, such as colors, fonts, and spacing, and control the layout of multiple web pages with a single stylesheet.
- **JavaScript (JS)** is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and much more. It's an essential part of web applications and enhances user interaction.
- **jQuery** is a fast, small, and feature-rich JavaScript library designed to simplify the client-side scripting of HTML. It was found in January 2006.
- **PHP (Hypertext Preprocessor)** is a server-side scripting language designed for web development. It's used to manage dynamic content, databases, session tracking, and even build entire e-commerce sites.
- **MySQL** is a relational database management system based on SQL (Structured Query Language). It's used to store, retrieve, and manage data in a database. It's commonly used in conjunction with PHP to create dynamic web applications.

Data Dictionary:

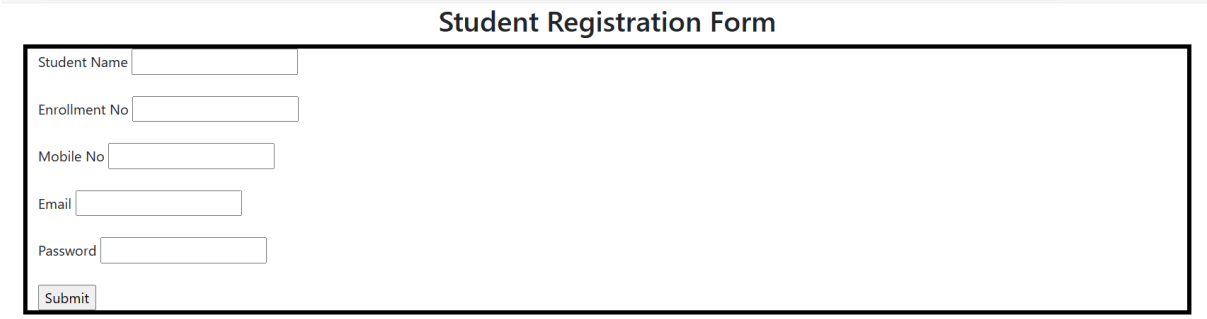
Table	Action	Rows	Type	Collation	Size	Overhead
about	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
admin	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
clients	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
contact	Browse Structure Search Insert Empty Drop	11	InnoDB	utf8mb4_general_ci	16.0 KiB	-
general_setting	Browse Structure Search Insert Empty Drop	16	InnoDB	utf8mb4_general_ci	16.0 KiB	-
greenbox	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
portfolio	Browse Structure Search Insert Empty Drop	14	InnoDB	utf8mb4_general_ci	16.0 KiB	-
services	Browse Structure Search Insert Empty Drop	9	InnoDB	utf8mb4_general_ci	32.0 KiB	-
servicess	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
tbl_menu	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
team	Browse Structure Search Insert Empty Drop	5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
testimonials	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	32.0 KiB	-
12 tables	Sum	94	InnoDB	utf8mb4_general_ci	224.0 KiB	0 B

Day 2

Student From:

Student Form Created with the label of student name, Enrollment No, Mobile NO, Email, Password.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Student Registration Form</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <!-- <link rel="stylesheet" href="css/bootstrap.css"> -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" crossorigin="anonymous">

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" crossorigin="anonymous">
    <link rel="stylesheet" href="css/style.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>
    <script src="custom.js"></script>
</head>

<body>
    <!-- <img src="../../image/background.png" alt="my image">
    <img src="../image/background.png" alt=""> -->
    <b id="response"></b>
    <h2 align="center">Student Registration Form</h2>
    <form action="register_post.php" method="POST" id="student_register" class="container" class="py-3 text-center">
        <label>Student Name</label>
        <input type="text" id="student_name" class="forminputs" name="student_name" required />
        <br /><br />

        <label>Enrollment No</label>
        <input type="number" name="enrollment_no" id="enrollment_no" class="forminputs" required />
        <br /><br />

        <label>Mobile No</label>
        <input type="number" name="mobile_no" class="forminputs" id="mobile_no" required />
        <br /><br />

        <label>Email</label>
        <input type="email" name="student_email" class="forminputs" id="student_email" required />
        <br /><br />

        <label>Password</label>
        <input type="password" name="student_password" id="student_password" class="forminputs" required />
        <br /><br />

        <input type="submit" value="Submit" />
        <?php
        if (isset($_GET['message']) && !empty($_GET['message'])) {
            echo $_GET['message'];
        }
        ?>
    </form>
</body>
</html>
```



Day 3.

Create Students Database:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(255)			No	None		AUTO_INCREMENT	Change Drop More
2	student_name	varchar(50)	utf8_unicode_ci		No	None			Change Drop More
3	enrollment_no	varchar(50)	utf8_unicode_ci		No	None			Change Drop More
4	mobile_no	varchar(20)	utf8_unicode_ci		No	None			Change Drop More
5	student_email	varchar(30)	utf8_unicode_ci		No	None			Change Drop More
6	student_password	varchar(30)	utf8_unicode_ci		No	None			Change Drop More
7	created_date	datetime			No	None			Change Drop More

Now connect the database to form:

[Code.]

```php
<?php

// Create a connection
$conn = mysqli_connect('localhost','root','','phpinternship');

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

// echo "Connected successfully";
?>
```

What is AJAX?

AJAX stands for Asynchronous JavaScript and XML. It's a web development technique that allows web pages to be updated asynchronously by exchanging small amounts of data with the server behind the scenes. This means that it is possible to update parts of a web page, without reloading the whole page. AJAX is not a programming language but rather uses a combination of:

- A browser built-in XML Http Request object (to request data from a web server).
- JavaScript and HTML DOM (to display or use the data).

Day 4.

Now we are using AJAX for Insert, Update and Delete.

Data Insert:

[Code.]

```php
<?php
include "connection.php";

$student_name = $_POST['student_name'];
$enrollment_no = $_POST['enrollment_no'];
$mobile_no = $_POST['mobile_no'];
$student_email = $_POST['student_email'];
$student_password = $_POST['student_password'];
$created_date = date('Y-m-d h:i:s');

$query = "INSERT INTO students (student_name, enrollment_no, mobile_no, student_email, student_password, created_date) VALUES('$student_name',
'$enrollment_no', '$mobile_no', '$student_email', '$student_password', '$created_date')";

$executeQuery = $conn->query($query);

if($executeQuery){
    /* header("Location: register.php?message=Your Data Saved Successfully"); */
    echo "Record Inserted Successfully";
}
```

Day 5.

List of Data:

[Code]

```php
<?php
    include "connection.php";
    $query = "SELECT * FROM students";
    $result = $conn->query($query);

    $records = array();
    if($result->num_rows > 0){
        while($row = $result->fetch_assoc()){
            $records[] = $row;
        }
    }
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Listing of Items</title>

</head>
<body>
<?php
        if(isset($_GET['message']) && !empty($_GET['message'])){
            echo '<b>' . $_GET['message'] . '</b>';
        }
    ?>
    <h1 align="center">Student Registrations</h1>
    <table width="100%"  border="1">
        <hr><br>
        <tr>
            <th>ID</th>
            <th>STUDENT NAME</th>
            <th>ENROLL. No.</th>
            <th>MOBILE NO</th>
            <th>STUDENT EMAIL</th>
            <th>STUDENT PASSWORD</th>
            <th>CREATED DATE</th>
            <th>ACTION</th>
        </tr>
        <?php foreach($records as $key => $value): ?>
        <tr>
            <td> <?php echo $value['id']; ?> </td>
            <td> <?php echo $value['student_name']; ?> </td>
            <td> <?php echo $value['enrollment_no']; ?> </td>
            <td> <?php echo $value['mobile_no']; ?> </td>
            <td> <?php echo $value['student_email']; ?> </td>
            <td> <?php echo $value['student_password']; ?> </td>
            <td> <?php echo $value['created_date']; ?> </td>
            <td> <a href="edit.php?id=<?php echo $value['id']; ?>">Edit</a> |
             <a href="delete.php?id=<?php echo $value['id']; ?>">Delete</a> </td>
        </tr>
        <?php endforeach; ?>
    </table>
    <br><hr>
</body>
```

[Output]

Student Registrations

ID	STUDENT NAME	ENROLL. No.	MOBILE NO	STUDENT EMAIL	STUDENT PASSWORD	CREATED DATE	ACTION
3	Darshan	2123	1235	development@g.com	Test@123#	2024-02-26 03:39:55	Edit | Delete
4	deep	212344	24234234	development@gmail.com	Test@123#	2024-02-26 03:50:17	Edit | Delete
5	Darshan0	2123	12433333333333334	development@gmail.com	HELLO	2024-02-26 03:53:03	Edit | Delete
6	vishal	21233424	34444356	development@gmail.com	tesddsf0	2024-02-26 03:57:12	Edit | Delete
7	jatin undar	123456	7410852	jatin@gmail.com	1234	2024-02-28 17:55:34	Edit | Delete
10	ankush123	2204070100065	7894561230	ankush@gmail.com	1234	2024-02-29 11:26:55	Edit | Delete
9	chirag23	220407010	7410852078	chirag@gmaiil.com	123456	2024-02-29 07:23:57	Edit | Delete
15	nelish Sir inernship	7410014741	74100147410	nileahsir@gmail.com	78945	2024-02-29 11:34:12	Edit | Delete
16	anlkush	74147	74147	NAKUSH@GMAIL.COM	1234456	2024-02-29 11:35:01	Edit | Delete
17	anlkush1	74147	741475	NAKUSH@GMAIL.COM	1234	2024-02-29 11:36:39	Edit | Delete
19	mem	74108529630	1234567890	asdfg@gmail.com	7410	2024-02-29 06:41:59	Edit | Delete
21						2024-03-27 11:29:38	Edit | Delete
22	vishal	2204070100069	74100147410	vishal0211@gmail.com	vishal	2024-04-04 07:57:25	Edit | Delete
23	vishal	22040701069	74100147410	vishal0211@gmail.com	vishal	2024-04-04 07:58:57	Edit | Delete

Day 6

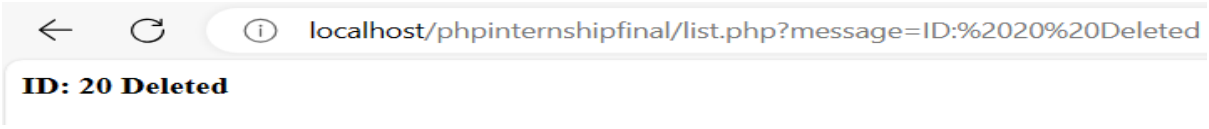
Edit Data of Student

[Code]

```php
<?php
include "connection.php";

$id = $_POST['id'];
$student_name = $_POST['student_name'];
$enrollment_no = $_POST['enrollment_no'];
$mobile_no = $_POST['mobile_no'];
$student_email = $_POST['student_email'];
$student_password = $_POST['student_password'];
$created_date = date('Y-m-d h:i:s');

$query = "UPDATE students SET student_name='$student_name', enrollment_no='$enrollment_no', mobile_no='$mobile_no', student_email='$student_email', student_password='$student_password' WHERE id=$id";
// $executeQuery = $conn->query($query);
    if (mysqli_query($conn, $query)) {
        echo json_encode(array("record edit Succesfully"));
        header("Location: list.php?message=ID: $id updated");
    }
    else {
        echo json_encode(array("Error"));
    }
mysqli_close($conn);
?>
```

```php
<?php

include "connection.php";
$id = $_GET['id'];

$query = "DELETE FROM students WHERE id = $id";
$execute = $conn->query($query);

if($execute){
    header("Location: list.php?message=ID: $id Deleted");
}
```

[Output]

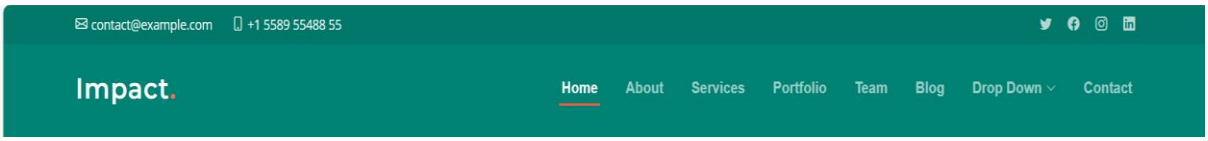

localhost/phpinternshipfinal/list.php?message=ID:%2020%20Deleted
ID: 20 Deleted

Now We are Download User Side template From Bootstrap.

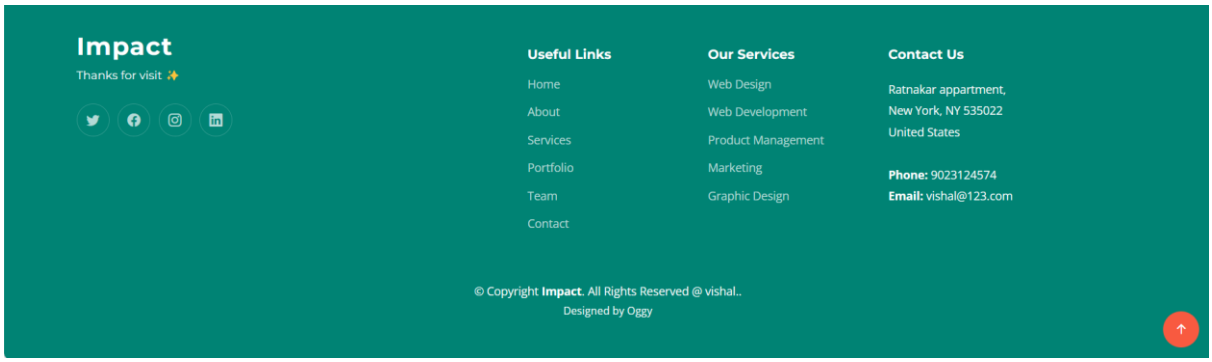
User Side template

Now we will separate Header and Footer Files.

Header File:

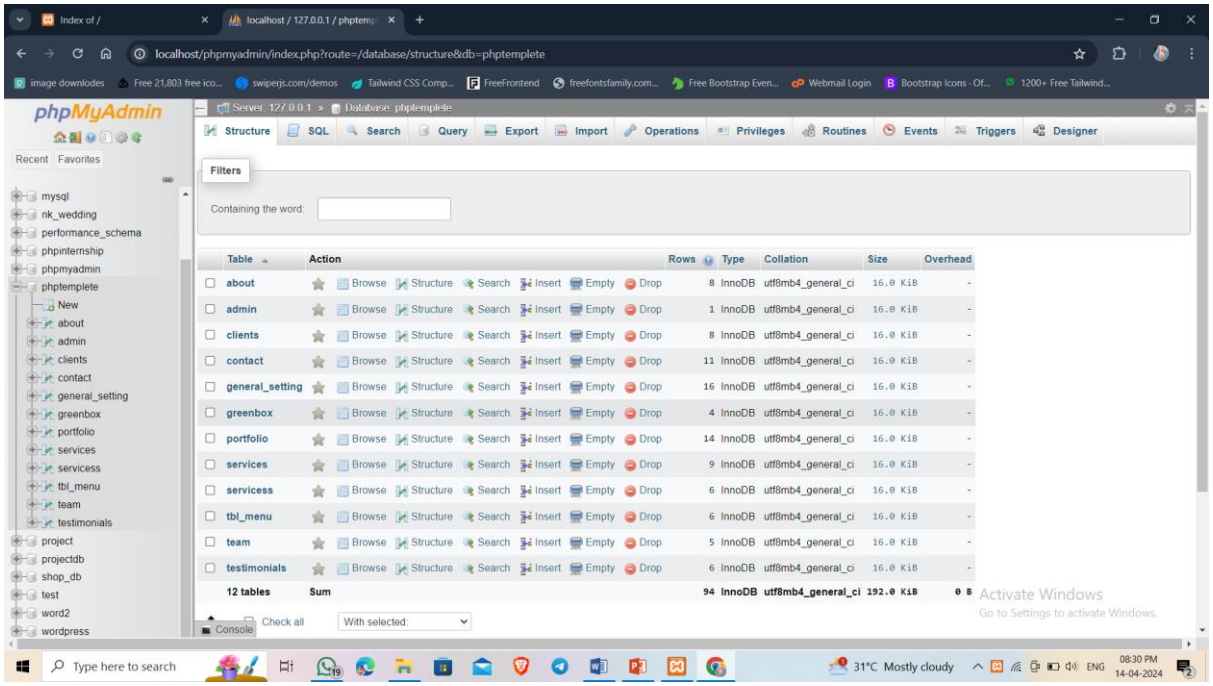


Footer File:



Now we are Create A Database.

Database Name: phptemplete

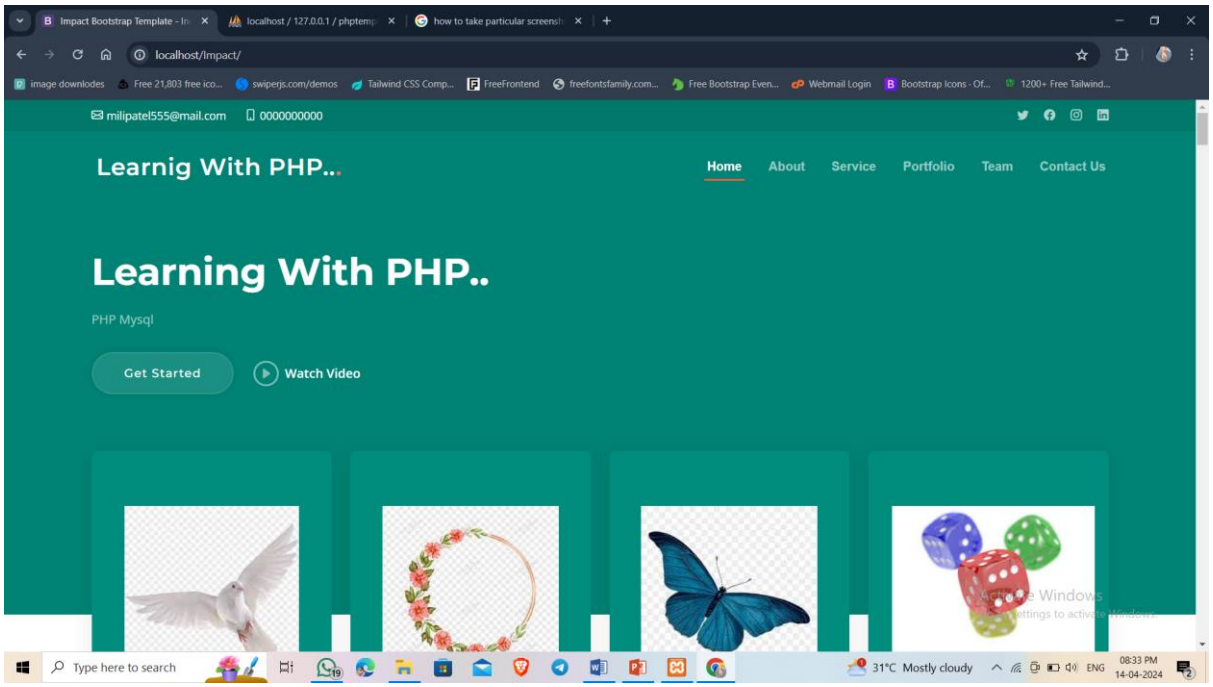


Now let's make the Header Dynamic & Will put logo

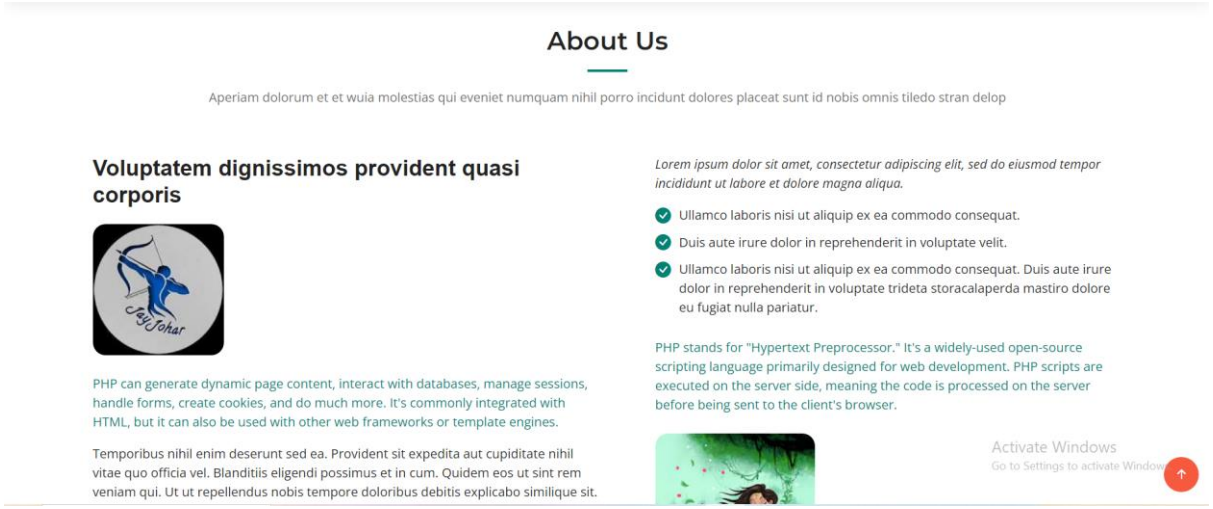
We will Dynamically Menu Linked, Phone Number, Gmail & All Social Media logo included in the header

Dynamic Index page

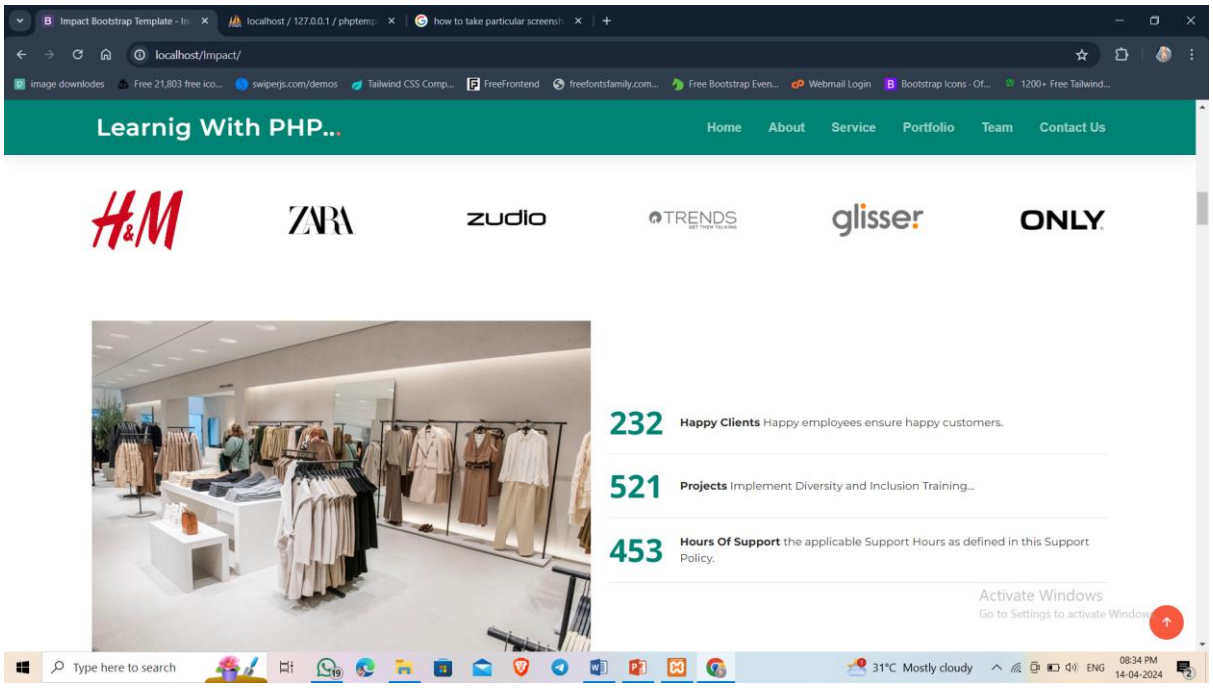
Also Give a link on both buttons Get Started & watch video.



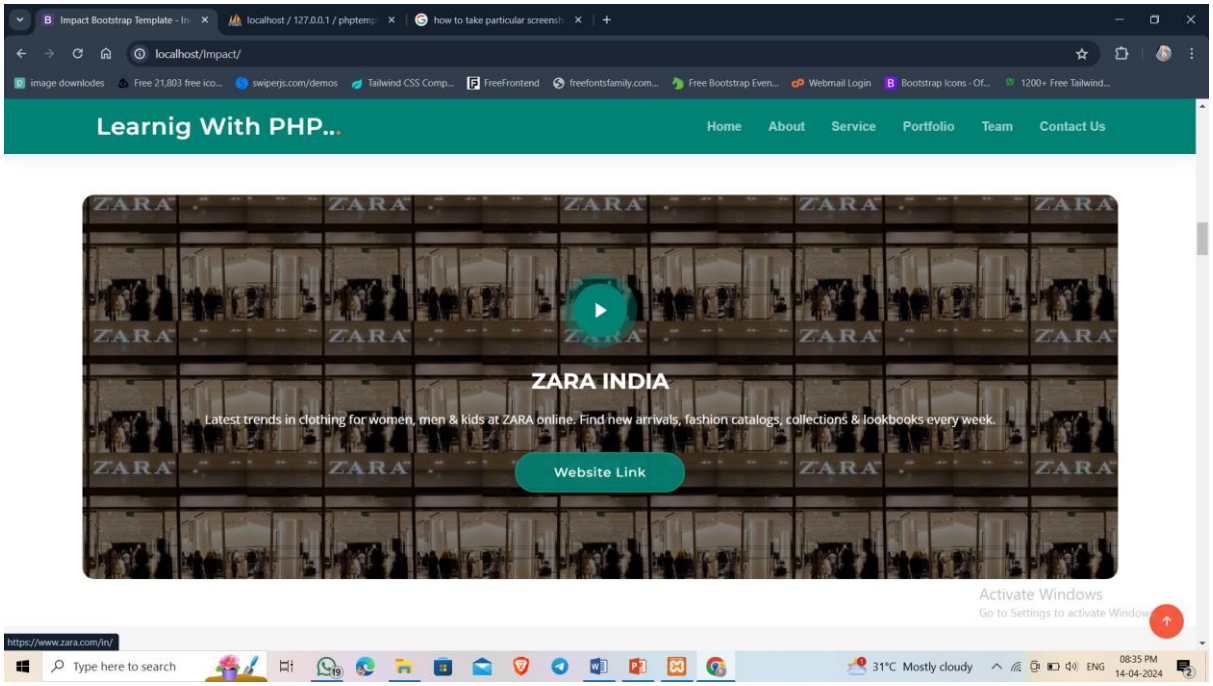
About Us page



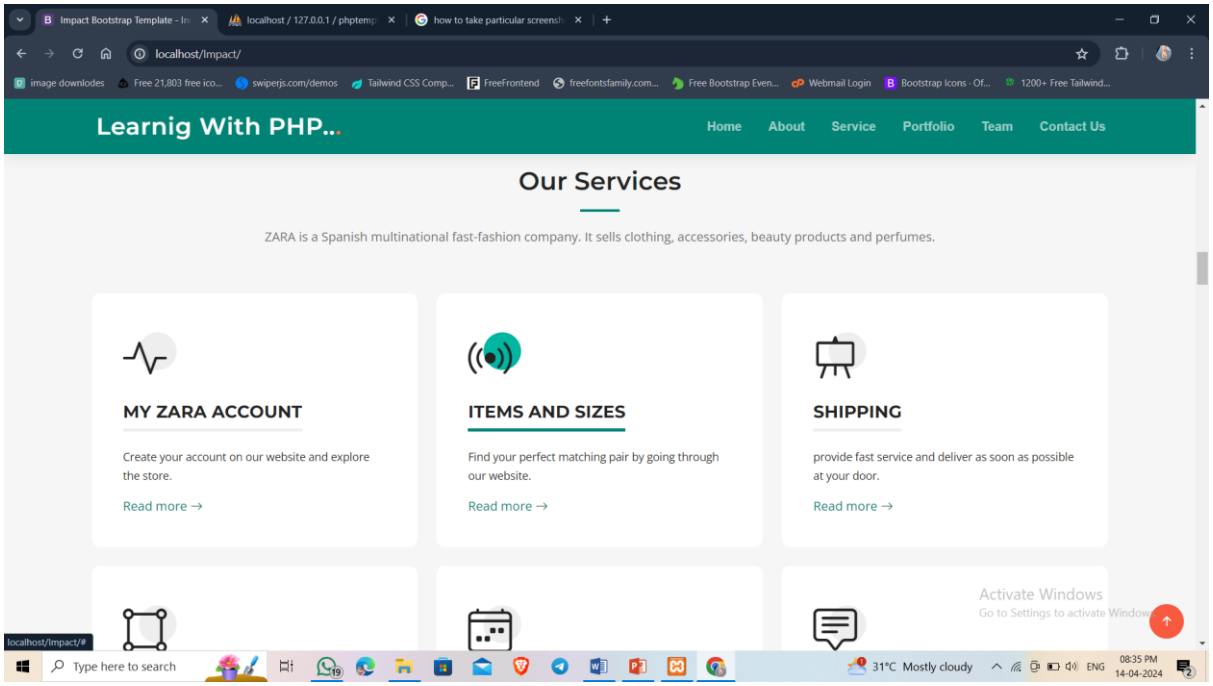
Now, We will Dynamically Menu of Image. Also Dynamic Happy Clients, Project, HOS of Data.



Call To Action

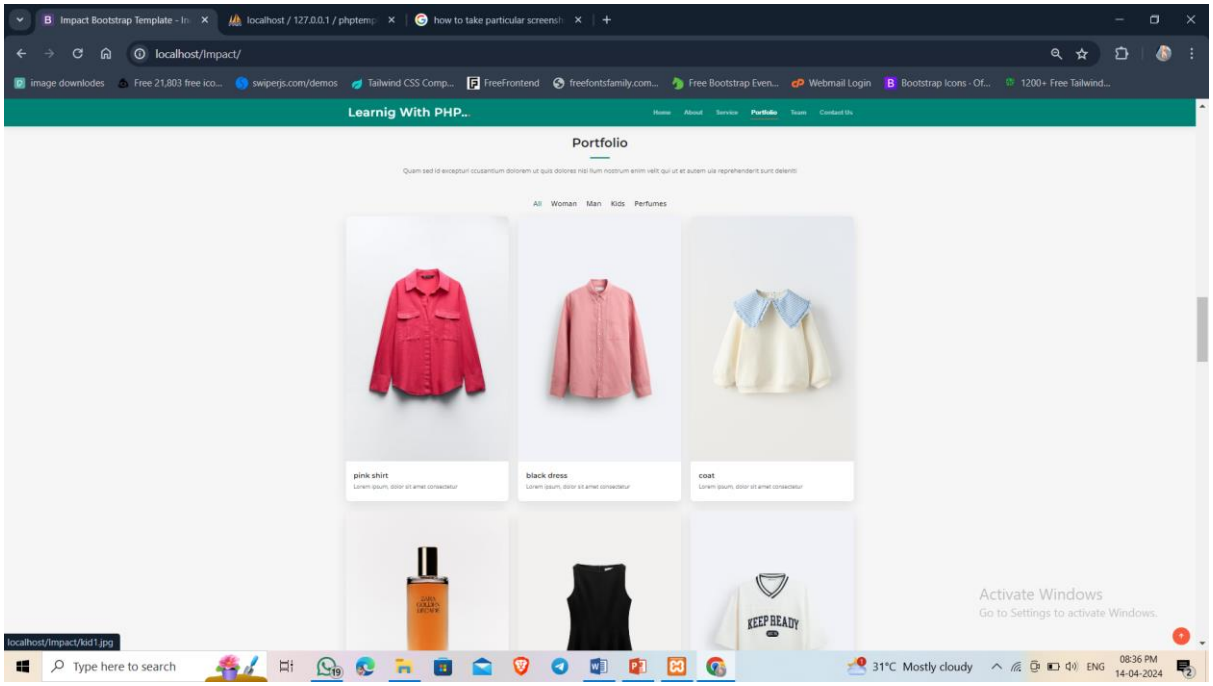


Dynamic Our Services:



Dynamic Testimonials:

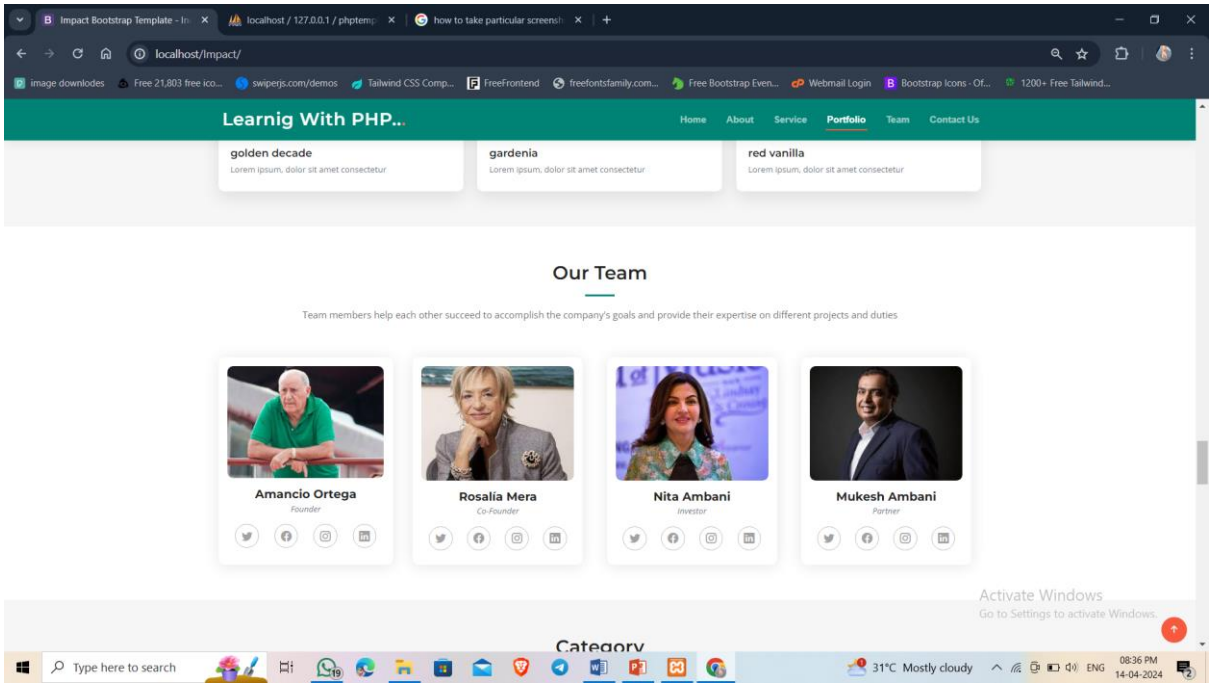
Like Name, Image & Occupation



Dynamic Portfolio:

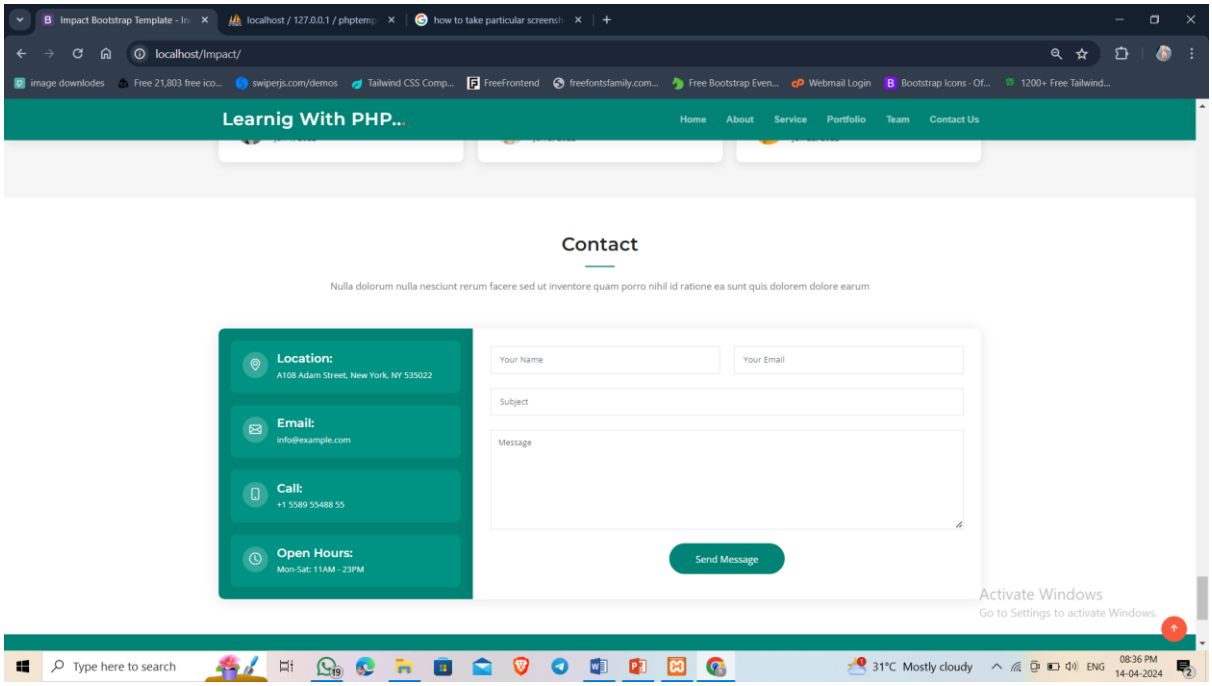
Dynamic Team:

Like Name, Image & Occupation



Dynamic Contact:

- **Like Name, Email, Subject & Message.**
- **Left Side of data was Non dynamic.**



Thank You…