

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Internship Report on Full Stack Web Development at Skill Vertex

Submitted By:

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0901CS181065

Faculty Mentor:

Prof. R. K. Gupta ,Prof. ,CSE, MITS

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

MAY-JUNE 2022

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Internship Report

on

Full Stack Web Development at Skill Vertex

A final year internship report submitted in partial fulfillment of the requirement for the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

Submitted By:

Pankaj Ahirwar

0901CS181065

Internship Faculty Mentor:

Prof. R. K. Gupta, Prof. ,CSE, MITS

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

MAY-JUNE 2022



C E R T I F I C A T E

OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

PANKAJ AHIRWAR

This is to certify that the above mentioned candidate has successfully completed his/her training in **Web Development** from **5th February to 5th March 2022**

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.

Mayank Gathole
(Academic Head)



Student UIN : 2004371

Certificate no. : RA1715371





C E R T I F I C A T E

OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

PANKAJ AHIRWAR

This is to certify that the above mentioned candidate has successfully completed **Web Development** live projects from Artifintel in association with Skillvertex from **5th March 2022 to 5th June 2022**.

During this internship he/she showed diligence, consistency & determination.

Mayank Gathole
(Academic Head)



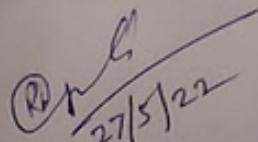
Certificate ID: - RA1715371

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CERTIFICATE

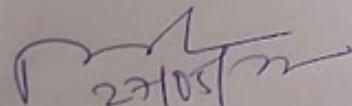
This is certified that Pankaj Ahirwar (0901CS181065) has submitted the Internship report titled **Full Stack Web Development at Skill Vertex** of the work he has done under the mentorship of **Prof. R. K. Gupta**, in partial fulfillment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



27/5/22

Prof. R. K. Gupta

Faculty Mentor
Computer Science and Engineering



27/05/22

Dr. Manish Dixit

Professor and Head,
Computer Science and Engineering
Dr. Manish Dixit
Professor
Department
MLTS

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

DECLARATION

I hereby declare that the work being presented in this Internship report, for the partial fulfillment of requirement for the award of the degree of Bachelor of Technology in CSE at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Prof. R. K. Gupta, Professor**, Department of CSE.

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.



Pankaj Ahirwar

0901CS181065

IV Year,

Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

ACKNOWLEDGEMENT

The full semester internship has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary internship as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering, for allowing** me to explore this internship. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Prof. R. K. Gupta**, Professor, Department of Computer Science and Engineering, for his continued support and close mentoring throughout the internship. I am also very thankful to the faculty and staff of the department.



Pankaj Ahirwar
0901CS181065
IV Year,
Computer Science and Engineering

ABSTRACT

I have joined this company because they were working on the development part and they used java which was preferable for me. I have been given a training for 1 month in which we have to learn the technical technology like HTML, CSS, etc. after that we have given a project , the main purpose of this internship is to learn and design how to make a Full Stack Website with Frontend, Backend, and connecting of database(MySql).

Keyword: Java & its Frameworks Html, CSS, Bootstrap, Javascript.

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Chapter I: Internship Overview

1.1 Introduction

I got an opportunity to work as an intern in Skill Vertex. In this Internship I have been given training for 1 month in which we have to learn technical technology. We have assigned a mentor who was guiding us during this internship. On a daily basis I have a meeting with our mentor Akash Soni Sir, and all the doubts were clear at the meeting only.

1.2 Objectives and Scopes

The main objective in this internship is to learn and implement what I have learned during the training. I have to learn about the technologies on which we can design the Full Stack Website. There is a big scope of Web Development for any of the companies. During this time A Full Stack Web Developer is very valuable because they can provide both Frontend and Backend Benefit to the Company. The main objective of this internship is to learn and implement what I have learned during the training. At first I have to learn about the Java Frameworks rather than all the web development tools. The purpose was to make client friendly work.

1.3 Internship Features

1. Fitting fundamentals. Whether the basics of a program meet the student's specific needs is the first criterion they consider: Is the nature of the work a match for their major and career objectives? What is the timeframe, duration, and location of the program? How is the program structured in terms of hours and days per week?

Yes, many of these criteria are outside a company's control. However, understanding what's important to interns means you can create a posting that clearly addresses these aspects. And in it, you can put a positive spin on any less-desirable details.

2. Compensation. Sure, it's not all about the money; and, it's true, you can't put a price on valuable experience. But the unfortunate reality is that not all students can *afford* to work for free, no matter how much they might be motivated and interested in your industry. So before you decide you can't compensate interns at all, consider whether your budget might accommodate a more modest wage.

3. Appealing perks. Even if you can pay interns a standard wage—and *especially* if they'll be working without compensation—give some thought to how you might entice the cream of the student crop with some (seemingly trivial) incentives. More than you might imagine, extras like free breakfasts, lunches, or designer coffee drinks—or even a half-day off every other Friday—can tip the scales in your favor when interns are picking between programs. And *should* they choose your organization, benefits like these can boost morale by communicating to interns their value to the company.

4. Meaningful work. Possibly more than anything else, interns are constantly clamoring for more “meaningful” work. Remember, their primary objective is to *learn*...both about the business in general as well as to acquire the specific skills necessary to function effectively in the industry. When you “use” students simply to perform grunt work, you are robbing them of the opportunity to develop their knowledge and abilities. In short, a program without *meaningful* work is rendered *meaningless* to the intern.

5. Inclusion. In line with the learning objective is to what extent the organization includes the intern in employee activities. Aside from assigning challenging projects with educational value, inviting interns to meetings and other activities—as participants *or* observers—is an enticing attribute.

Including the intern whenever appropriate serves a dual purpose: It exposes them to more situations in which they can observe supervisor behavior and interactions. Moreover, it makes them feel part of the team. In the end, an intern who was treated like an “insider” is much more likely to accept a job offer or to speak favorably about a company to their peers.

6. Supervisor accessibility. There's nothing more frustrating to interns than feeling forgotten: being left hanging around with no one to tell them what to do or to clarify the questions necessary to complete a project. In the best internship programs, there is always someone available.

Essentially, when the direct supervisor is out or occupied, there should be someone else assigned to the intern; and the intern should be made aware of this person and how to get a hold of them. Therefore, if at any point the intern has questions, they know there's someone who can, if not answer their question, at least assign an interim task or let them know when their supervisor will return.

7. Detailed direction. Popular internship programs see to it that supervisors give easily understandable direction. Because not only does this reduce feelings of frustration, it gives the intern the information they need to succeed. Remember, an intern who feels proud of their accomplishments will more likely feel pleased with the program itself.

8. Effective evaluation. Students want to succeed. But the only way they'll *know* if they're falling short or exceeding expectations is through feedback. In a highly rated internship program, evaluations are structured, and include both praise and critique. Most importantly, criticism is coupled with clear direction on how to make improvements.

9. Appealing environment. Just like permanent employees, interns want somewhere comfortable to come to work...on both a physical and personal level. On the physical front, interns should have a workspace where they don't feel like they're intruding on another's territory. And they certainly need their own chair and desk (or at least a dedicated tabletop). Also, employers must make sure interns have easy access to any necessary equipment computer, printer, phone, fax, etc.

On the personal front, friendliness and helpfulness go a long way in affecting an intern's opinion of an organization. Above all else, interns should be treated with the same respect as any employee—bonus if the environment is free from cattiness, unnecessary drama, and oversized egos.

10. Candidness & congruence. Beginning with the posting of the position, it's important that employers are honest about what the student can expect from the internship. Misrepresenting the ratio of meaningful work to mindless work, the number of expected hours, or the skill set and/or subject matter involved can cause your program to develop a negative reputation. Moreover, pretending a program is something it's not, in order to attract candidates, takes away an intern's ability to choose the position best suited to their academic and career objectives.

Employer takeaway: Don't let the current economic climate make you lax; in any economy, the interns who can make the most important contributions to your company will choose the most *quality* internship programs. So how will interns *know* whether your internship program is top notch? As mentioned, your posting sheds some light on what students can expect. But primarily, their peers will tell them. And for better or worse, word travels fast around college campuses.

1.4 Feasibility

In both the internship the feasibility criteria were equal.I have work from home so there is no traveling issue etc. I just have to join the meeting on time and work on it.

1.5 System Requirements

Software : Window 10 above

IDE: Eclipse, Netbeans

Database: Oracle, MySql

Ram: 8gb

Chapter II: Project 1 (Minor)

In this project, the Front-end part of the website is to be designed for a shoe store.

Technology Used:-

1. Front-end

-HTML

-TailwindCSS

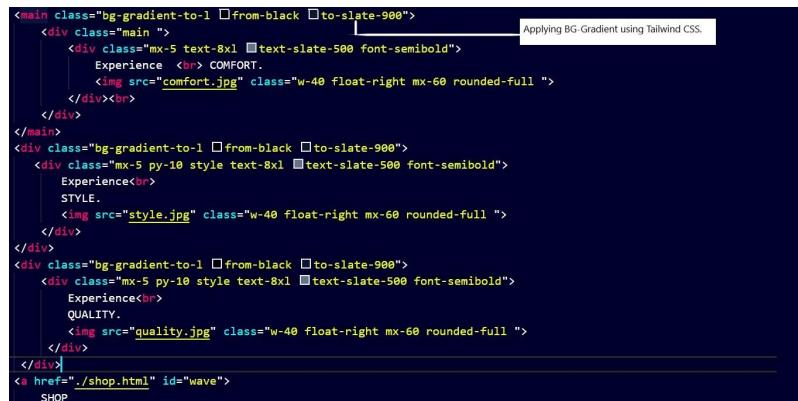
-Java Script

2. Platform used- VS Code

Designing and styling part is the main focus of this project which is done by CSS and using animations.

Tailwind CSS is-

1. Tailwind CSS is a highly customizable framework.
2. It Has Common Utility Patterns
3. It Enables Building Complex Responsive Layouts Freely
4. If your application size is very large, using Tailwind CSS can greatly benefit you.



```
<main class="bg-gradient-to-1 from-black to-slate-900">
  <div class="main">
    <div class="mx-5 text-8xl text-slate-500 font-semibold">
      Experience <br> COMFORT.
      
    </div>
    <br>
  </div>
</main>
<div class="bg-gradient-to-1 from-black to-slate-900">
  <div class="mx-5 py-10 style text-8xl text-slate-500 font-semibold">
    Experience<br>
    STYLE.
    
  </div>
</div>
<div class="bg-gradient-to-1 from-black to-slate-900">
  <div class="mx-5 py-10 style text-8xl text-slate-500 font-semibold">
    Experience<br>
    QUALITY.
    
  </div>
</div>
<a href="./shop.html" id="wave">
  SHOP
</a>

```

Fig. 2.1

2.1 OUTCOME

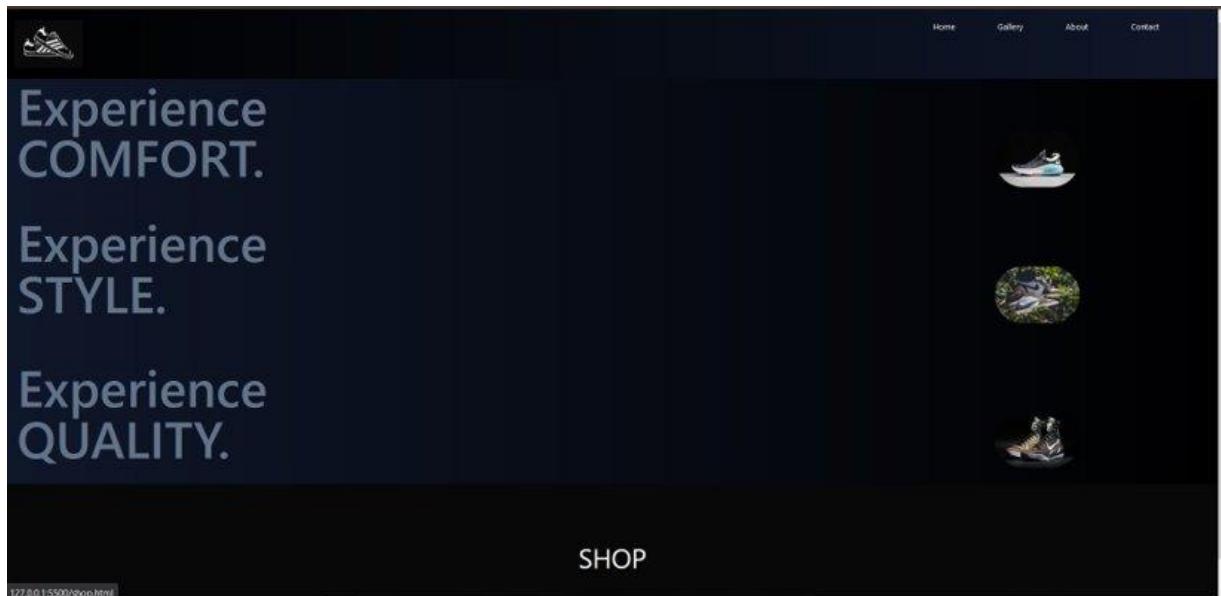


Fig. 2.2

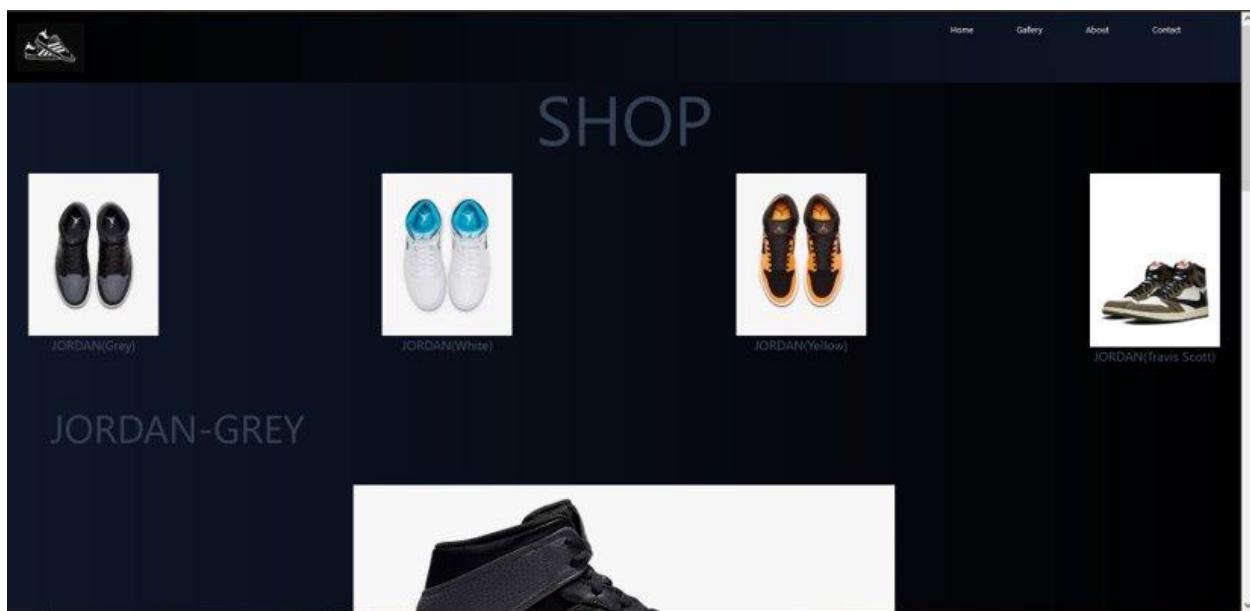


Fig. 2.3

Chapter III: Project 2 (Major)

3.1 Objective of Proposed Work

Create a portfolio frontend of an restaurant business website .Use HTML5, CSS3 & JavaScript for making the website more dynamic. Use all the attributes of HTML5 properties of CSS3. Use inline, external & internal JavaScript in the project. Use as many functions as possible through JavaScript.

3.2 Problem Statement

Create a restaurant business website with a backend to display menu dynamically and create reservations that are stored in a database.

3.3 Proposed Methodology

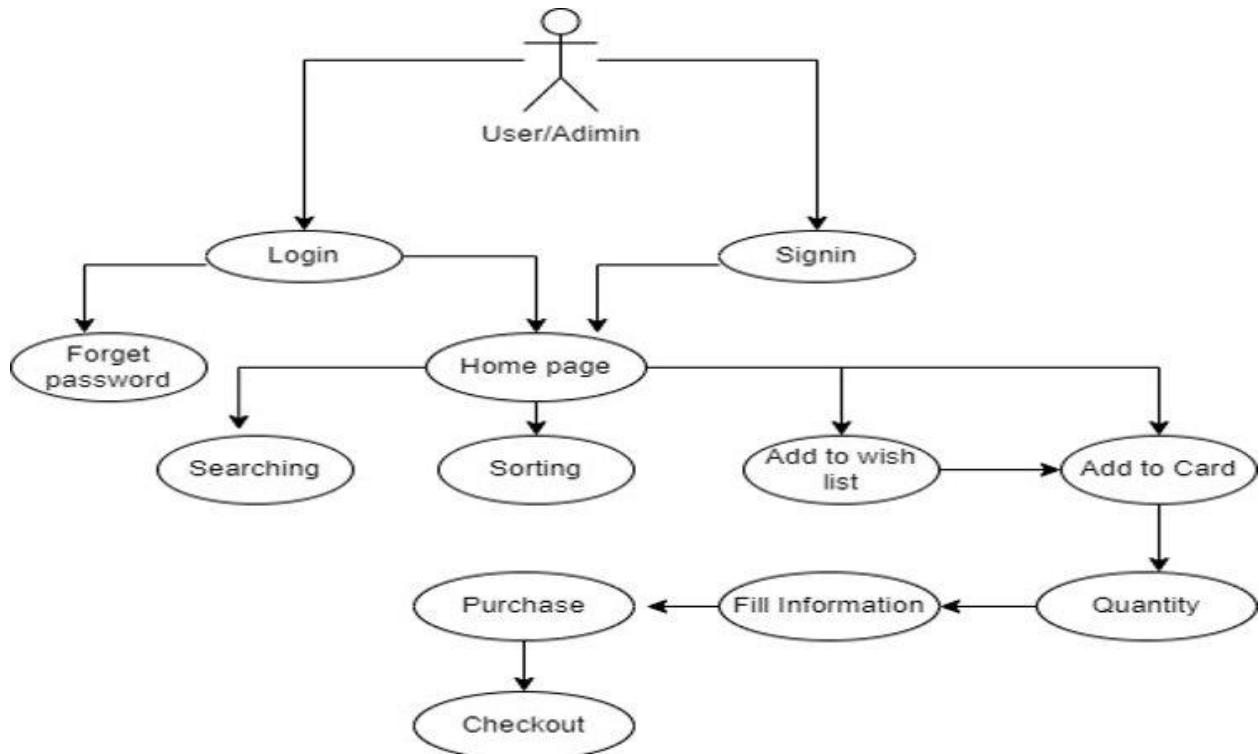


Fig. 3.1

3.4 Outcome

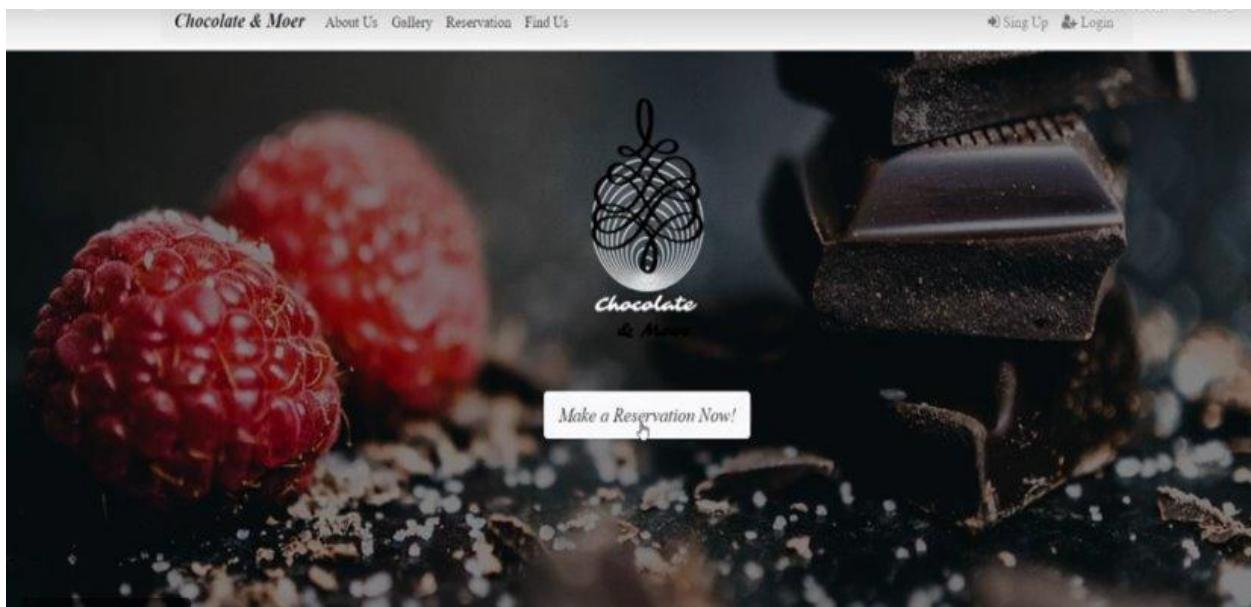


Fig. 3.2

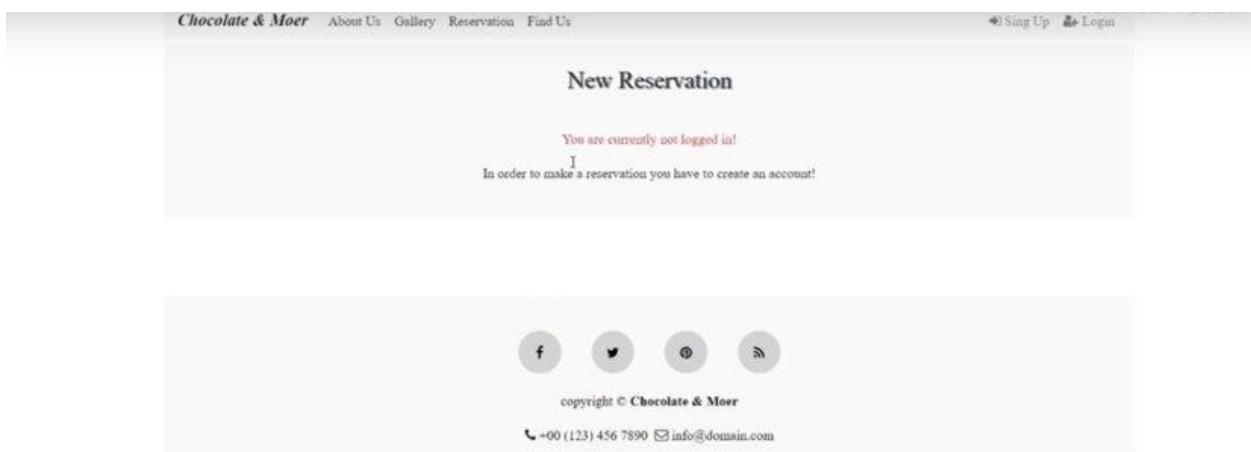


Fig. 3.3

Chapter IV: PHP Module

4.1 Introduction

The term PHP is an acronym for *PHP: Hypertext Preprocessor*. PHP is a server-side scripting language designed specifically for web development. It is open-source which means it is free to download and use. It is very simple to learn and use. The files have the extension “.php”.

Five important characteristics make PHP's practical nature possible –

- Simplicity
- Efficiency
- Security
- Flexibility
- Familiarity

4.2 Applications of PHP

As mentioned before, PHP is one of the most widely used languages over the web. I'm going to list few of them here:

- PHP performs system functions, i.e. from files on a system it can create, open, read, write, and close them.
- PHP can handle forms, i.e. gather data from files, save data to a file, through email you can send data, return data to the user.
- You add, delete, modify elements within your database through PHP.
- Access cookies variables and set cookies.
- Using PHP, you can restrict users to access some pages of your website.
- It can encrypt data.

4.3 Audience

This PHP tutorial is designed for PHP programmers who are completely unaware of PHP concepts but they have basic understanding of computer programming.

4.4 Prerequisites

You should have at least a basic understanding of computer programming, Internet, Database, and MySQL etc is very helpful.

Chapter V: The GET Method

The GET method sends the encoded user information appended to the page request. The page and the encoded information are separated by the ? character.

<http://www.test.com/index.htm?name1=value1&name2=value2>

- The GET method produces a long string that appears in your server logs, in the browser's Location: box.
- The GET method is restricted to send upto 1024 characters only.
- Never use the GET method if you have a password or other sensitive information to be sent to the server.
- GET can't be used to send binary data, like images or word documents, to the server.
- The data sent by the GET method can be accessed using QUERY_STRING environment variable.
- The PHP provides a `$_GET` associative array to access all the sent information using GET method.

```
<?php
if( $_GET["name"] || $_GET["age"] ) {
    echo "Welcome ". $_GET['name']. "<br />";
    echo "You are ". $_GET['age']. " years old.';

    exit();
}
?>
<html>
<body>

<form action = "<?php $PHP_SELF ?>" method = "GET">
    Name: <input type = "text" name = "name" />
    Age: <input type = "text" name = "age" />
    <input type = "submit" />
</form>

</body>
</html>
```

Fig. 5.1

Chapter VI: The POST Method

The POST method transfers information via HTTP headers. The information is encoded as described in the case of the GET method and put into a header called QUERY_STRING.

- The POST method does not have any restriction on data size to be sent.
- The POST method can be used to send ASCII as well as binary data.
- The data sent by POST method goes through HTTP header so security depends on HTTP protocol. By using Secure HTTP you can make sure that your information is secure.
- The PHP provides a `$_POST` associative array to access all the sent information using POST method.

```
<?php
    if( $_POST["name"] || $_POST["age"] ) {
        if (preg_match("/[^A-Za-z'-]/", $_POST['name'])) {
            die ("invalid name and name should be alpha");
        }
        echo "Welcome ". $_POST['name']. "<br />";
        echo "You are ". $_POST['age']. " years old.";

        exit();
    }
?>
<html>
    <body>

        <form action = "<?php $_PHP_SELF ?>" method = "POST">
            Name: <input type = "text" name = "name" />
            Age: <input type = "text" name = "age" />
            <input type = "submit" />
        </form>

    </body>
</html>
```

Fig. 6.1

References

- i. HTML w3schools documentations.
- ii. Tailwind CSS documentations (Tailwind CSS/docs).
- iii. Bootstrap.
- iv. Vite.js documentations.
- v. GitHub.
- vi. <https://www.php.net>

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Pankaj Ahirwar		Department	CSE	
Industry/Organization	Skill Vertex		Date/Duration	06/02/22 -14/02/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Work area is mainly development field. Till now the basic understanding about the processes is given.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> ✓				
<u>Name of Industry Mentor</u>	Akash Soni				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor : Prof R.K. Gupta		Sign	
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FPR-1

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Pankaj Ahirwar		Department	CSE	
Industry/Organization	Skill Vertex		Date/Duration	15/02/22 -25/02/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Performance is up to the mark & currently working under Node.js module.				
<u>OVERALL GRADE</u> (Any one)	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> ✓				
<u>Name of Industry Mentor</u>	Akash Soni				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor : Prof R.K. Gupta		Sign	
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FPR-2

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Pankaj Ahirwar		Department	CSE	
Industry/Organization	Skill Vertex		Date/Duration	25/02/22 – 15/03/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Given a project to build a frontend part of website using HTML CSS BOOTSTRAP				
<u>OVERALL GRADE (Any one)</u>	POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT ✓				
<u>Name of Industry Mentor</u>	Akash Soni				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor :	Prof. R.K Gupta	Sign	
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FPR-3

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

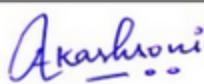
Name of student	Pankaj Ahirwar		Department	CSE	
Industry/Organization	Skill Vertex		Date/Duration	16/03/22 -28/03/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work			•		
Learning capacity/Knowledge up gradation				•	
Performance/Quality of work				•	
Behavior/Discipline/Team work			•		
Sincerity/Hard work				•	
Comment on nature of work done/Area/Topic	Currently working on a Project.				
<u>OVERALL GRADE</u> (Any one)	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Akash Soni				
<u>Signature of Industry Mentor</u>					

Receiving Date	Name of Faculty Mentor :	Sign	
	Prof R.K. Gupta		

FPR-4

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Pankaj Ahirwar		Department	CSE	
Industry/Organization	Skill Vertex		Date/Duration	01/04/22 -12/04/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behavior/Discipline/Team work			✓		
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Working on a real time project.				
<u>OVERALL GRADE</u> (Any one)	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> ✓				
<u>Name of Industry Mentor</u>	Akash Soni				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor: Prof. R.K. Gupta		Sign	
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FPR-5

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Pankaj Ahirwar		Department	CSE	
Industry/Organization	Skill Vertex		Date/Duration	14/04/22 - 28/04/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behavior/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Working on PHP module.				
<u>OVERALL GRADE</u> (Any one)	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u> ✓				
<u>Name of Industry Mentor</u>	Akash Soni				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor: Prof. R.K. Gupta		Sign	
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FPR-6

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	Pankaj Ahirwar		Department	CSE	
Industry/Organization	Skill Vertex		Date/Duration	28/04/22 -20/05/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behavior/Discipline/ Teamwork				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Performance is up to the mark & currently working under PHP module.				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Akash Soni				
<u>Signature of Industry Mentor</u>					

Receiving Date		Name of Faculty Mentor : Prof R.K. Gupta		Sign	
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FPR-7