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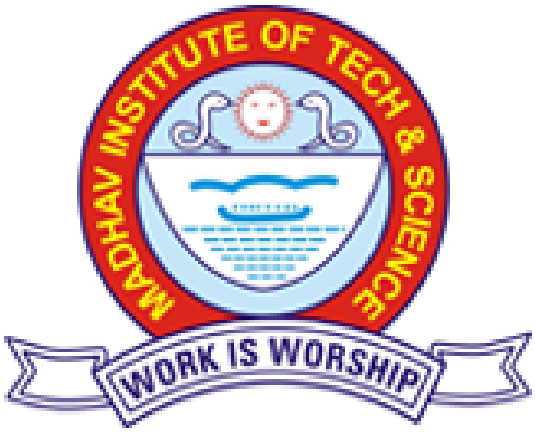

Final Year Internship Report

on

FULL STACK WEB DEVELOPMENT at SKILL-VERTEX

Submitted By

UMESH KUMAR AHIRWAR

0901CS181114

Faculty Mentor

PROF. AMIT KUMAR MANJHVAR

Asst. Professor

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)

Final Year 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

UMESH KUMAR AHIRWAR

0901CS181114

Internship Faculty Mentor:

PROF. AMIT KUMAR MANJHVAR (CSE DEPT.)

Asst. Professor

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE
GWALIOR - 474005 (MP) est.1957

MAY-JUNE 2022

Internship Certificate Received from Skill-Vertex
FULL STACK WEB DEVELOPMENT at SKILL-VERTEX

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

CERTIFICATE

This is certified that **Umesh Kumar Ahirwar**(0901CS181114) has submitted the Internship report titled **Full Stack Web Development** of the work he has done under the mentorship of Assistant **Prof. Amit Kumar Manjhvar** , 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.

28/05/22

Prof. Amit Kumar Manjhvar
Faculty Mentor
Assistant Professor
Computer Science and Engineering

28/05/22

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

Dr. Manish Dixit
Professor & HOD
Department of CSE
M.I.T.S. Gwalior

4

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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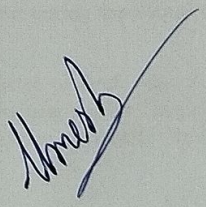
DECLARATION

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. Amit Kumar Manjhvar** , Assistant 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.



Umesh Kumar Ahirwar
0901CS181114
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. Amit Kumar Manjhvar** , Assistant 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.

Umesh Kumar Ahirwar
0901CS181114
IV Year,
Computer Science and Engineering

ABSTRACT

It is all about the web development & described about the 2 projects . 1st one is about the gym subscription online website via this a user can register himself for the best plan by comparing them . 2nd

One is about the online grocery store through which it is possible for the user to order the grocery online .

It contains the pictures of 2 projects & description about the things doe during the internship.

TABLE OF CONTENTS

TITLE	PAGE NO.
Internship Certificate from Industry	i
Institute Internship Certificate	ii
Declaration	iii
Acknowledgement	vi
Abstract	vii
Abbreviations	viii
Chapter 1:	
1.1 Introduction	1
1.2 Objectives and Scope	1
1.3 Internship Features	1
1.4 System Requirements	03
Chapter 2: Project 1 (Minor)	04
2.1 Outcome	05
Chapter 3: Project 2 (Major)	06

3.1 Objective of Proposed Work 06

3.2 Problem Statement 06

3.3 Outcome 07

Chapter 4: PHP Module 09

4.1 Introduction 09

4.2 Applications of PHP 09

4.3 Audience 10

4.4 Prerequisites 11

Chapter 5: The GET Method 11

Chapter 6: The POST Method 11

References 11

Appendix 11

List of Figures :

Figure Number	Figure caption	Page No.
1	Gym Fitness Website	5
2	Online Organic Grocery Store part1	7
3	Online Organic Grocery Store part 2	7
4	Online Organic Grocery Store part 2	8

LIST OF ABBREVIATIONS

Abbreviation	Description
HTML	Hyper Text Markup Language
CSS	Cascading Style Sheets
PHP	HyperText Preprocessor.
CSE	Computer Science & Engineering
Intern	internship
Obj	Objective
Tech	technology

Chapter 1
INTRODUCTION

1.1 Introduction :

There were many students who were doing the internship just like me some of them belongs to our college . So I interacted with them regarding the same intern. In Skill Vertex internship we first made a minor project then I teamed up with Saurabh Pahade (CSE 4th Year Student of MITS). Then we discussed & made a major project . And then we submitted to the coach who was training us. I learned the html5, css3 , javascript & php .It was a good experience to work with him.There was no difficulties in interaction or any kind of communication.

1.2 Objective:

There was a good reason to join this intern because it helped me a lot to gain the experience of industry level and how things worked . Like the way he provided us the exposure which was unique that gave me a clearity what to do next in the life which type of tech I want to work on . And Iam interested to join a tech company.

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, scheduled regularly, 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 & congruency. 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 System Requirements

Software : Window 10 above

IDE: Eclipse, Netbeans

Database: Oracle, MySql

Ram: 8gb

Chapter 2

Project 1 (Minor)

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

Technology Used:-

1. Front-end

   -HTML5

   -CSS3

2.Back-end

   -Javascript

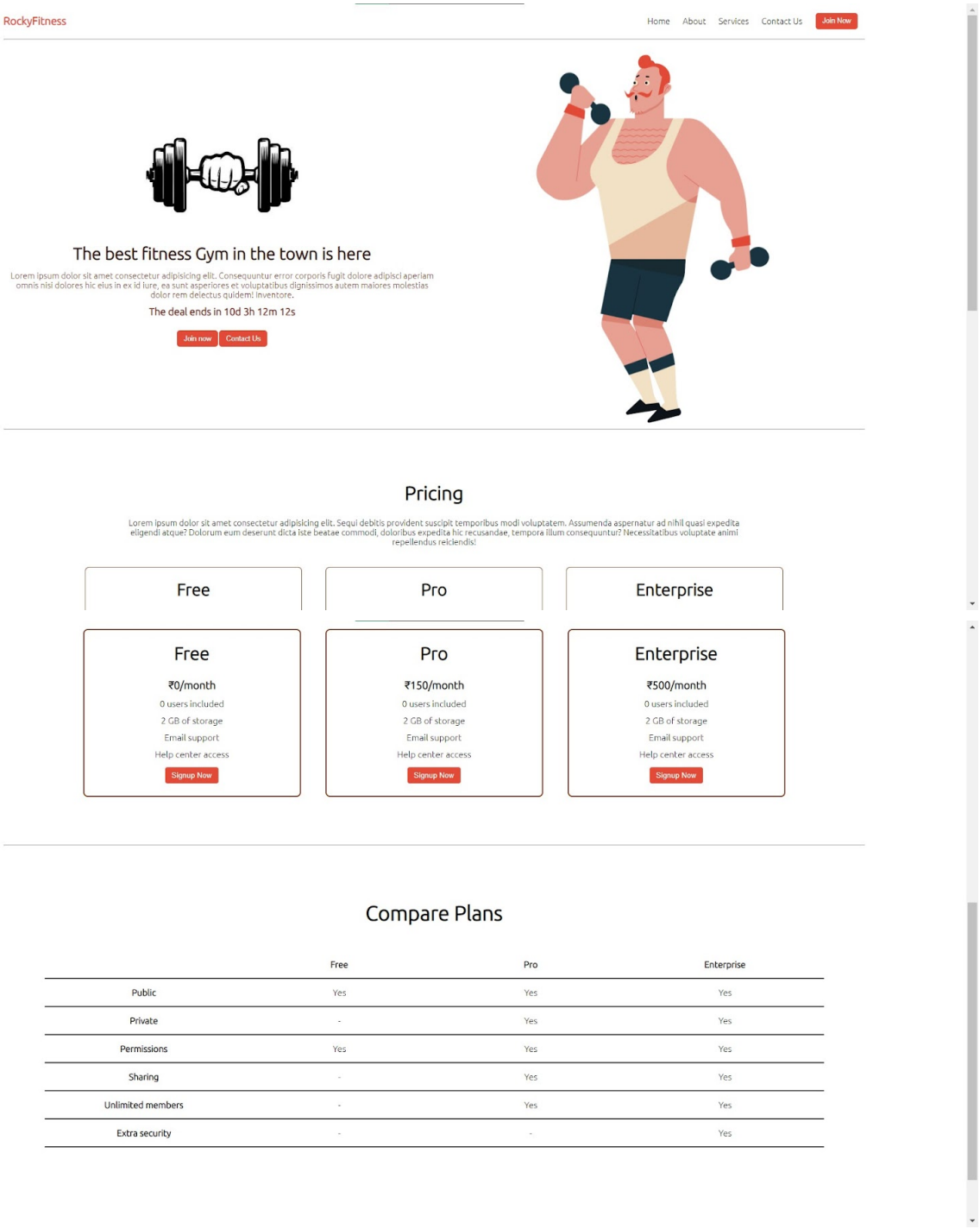
3. Platform Used :
   -VS Code

About the Project -

The project is all about the gym pricing and look for the best price for the subscription according to the user .It also uses images & logos . This uses javascript to show the timer for sales.

2.1 Outcomes-

Fig1.



Chapter 3: Project 2 (Major)

3.1 Objective of Proposed Work

To create a online organic grocery responsive website . Use HTML5, CSS3, JAVASCRIPT & PHP . Use the images , timer , functions according to

the requirement .

3.2 Problem Statement

Create a online organic grocery responsive website with backend to display the menu dynamically & put the timer for the sales . And set the options to Contact & to order the items online via the website.

3.3 Outcomes-

Fig 2

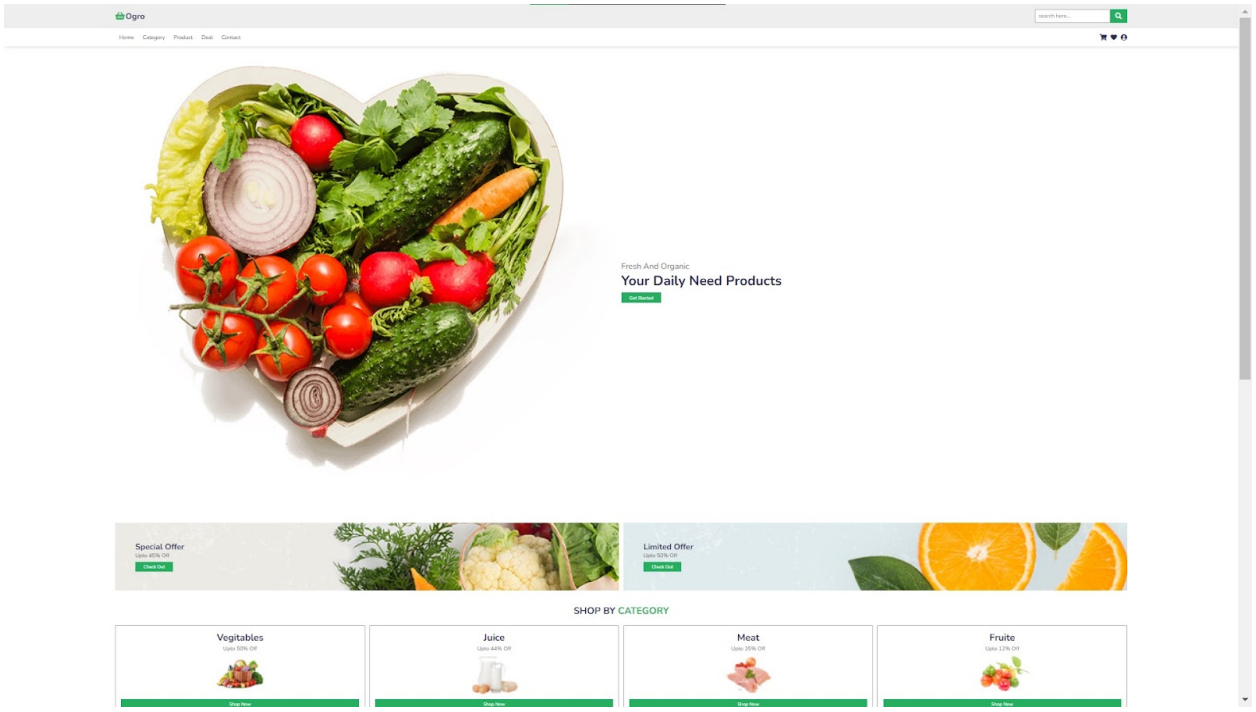


Fig 3

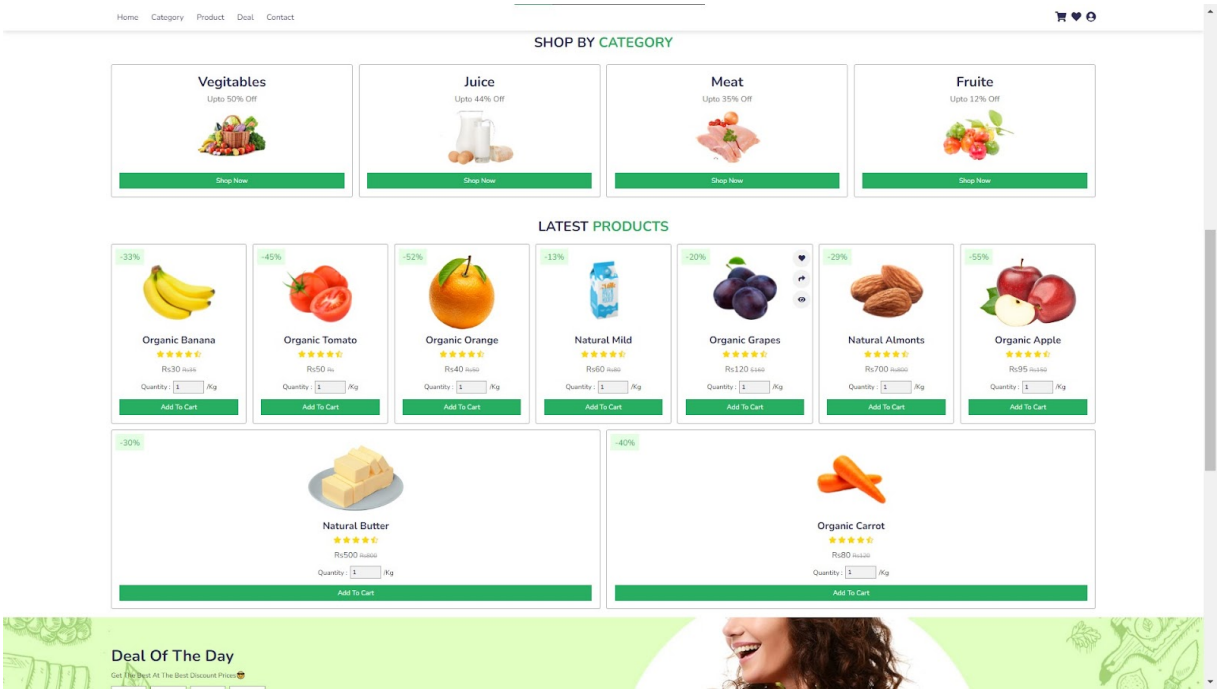
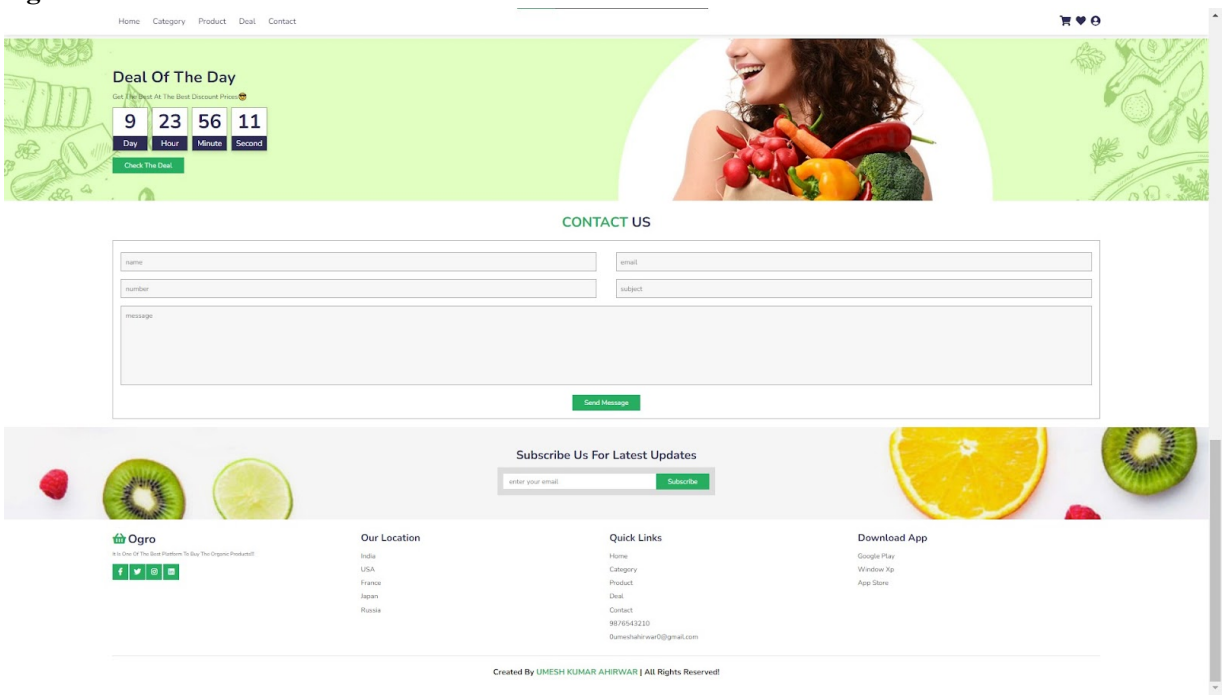


Fig4



Chapter 4: 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 language 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 on computer programming.

4.4 Prerequisites

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

Chapter 5: 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 GET method if you have 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 GET method can be accessed using QUERY_STRING environment variable.
- The PHP provides $_GET associative array to access all the sent information using GET method.

Chapter 6: The POST Method

The POST method transfers information via HTTP headers. The information is encoded as described in case of 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 $_POST associative array to access all the sent information using POST method.

Conclusion:

During the internship in the Skill Vertex I've learned the html5 , css3 , javascript & php. I learned the time management skills . College was going on & so did the work on the website development & learn

Web technology and now I am confident enough to create a website.

References

i. HTML w3schools documentations.
ii. Tailwind CSS documentations (Tailwind CSS/docs).
iii. GitHub.
vi. https://www.php.net

Appendix:

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	UMESH KUMAR 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 a website using HTML , CSS , BOOTSTRAP				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/ VERY GOOD /EXCELLENT**				
Name of Industry Mentor	AKASH SONI				
Signature of Industry Mentor					

Receiving Date		**Name of Faculty Mentor :**	**Dr Kalka Dubey**	**Sign**	

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	UMESH KUMAR AHIRWAR		Department	CSE	
Industry/Organization	SKILL VERTEX		Date/Duration	15/02/22 – 28/02/22	
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 PHP module.				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/ VERY GOOD /EXCELLENT**				
Name of Industry Mentor	AKASH SONI				
Signature of Industry Mentor					

Receiving Date		**Name of Faculty Mentor :**	**Dr Kalka Dubey**	**Sign**	

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	UMESH KUMAR AHIRWAR		Department	CSE	
Industry/Organization	SKILL VERTEX		Date/Duration	16/03/22 – 31/03/22	
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 major project in a team of 2 members . Create a website for a blood bank showing the quantity available depend on blood group.				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/ VERY GOOD /EXCELLENT**				
Name of Industry Mentor	AKASH SONI				
Signature of Industry Mentor					

Receiving Date		**Name of Faculty Mentor :**	**Dr Kalka Dubey**	**Sign**	

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	UMESH KUMAR AHIRWAR		Department	CSE	
Industry/Organization	SKILL VERTEX		Date/Duration	16/03/22 – 31/03/22	
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	Performance is upto the mark and projects which are given will have to submit at the last and currently CSS module is going on .				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/ VERY GOOD /EXCELLENT**				
Name of Industry Mentor	AKASH SONI				
Signature of Industry Mentor					

Receiving Date		**Name of Faculty Mentor :**	**Dr Kalka Dubey**	**Sign**	

FORMAT

FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR

Name of student	UMESH KUMAR AHIRWAR		Department	CSE	
Industry/Organization	SKILL VERTEX		Date/Duration	15/04/22 – 30/04/22	
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 upto the mark and learning the JavaScript .				
OVERALL GRADE (Any one)	**POOR/AVERAGE/GOOD/ VERY GOOD /EXCELLENT**				
Name of Industry Mentor	AKASH SONI				
Signature of Industry Mentor					

Receiving Date		**Name of Faculty Mentor :**	**Dr Kalka Dubey**	**Sign**	