

FULL STACK PHP

(Summer Internship 2021)

Presented by: -

Name of Student

Sushil Kumar.

B.Tech.(CSE), 3rd Semester

SIC: 20BCSD35

Guided by: -

Mr . Chinmaya Bhatta,
And the Syllogistek team.



Silicon Institute of Technology
Bhubaneswar

Table of Contents

- INTRODUCTION
- OBJECTIVES
- CONTENTS OF THE PROGRAM
 - HTML
 - CSS
 - JS
 - PHP
 - DATABASE CONNECTIVITY
- METHODOLOGY
- DETAILS ABOUT THE WORKS DONE
- OUTCOME OF THE PROGRAM
- CONCLUSION

1 Introduction

- **Full stack web Developers:** Full stack web developers have the ability to design complete web application and websites. They work on the frontend, backend, database and debugging of web application or websites.
- **Full stack development:** It refers to the development of both **front end**(client side) and **back end**(server side) portions of web application.

The Internship I had enrolled in was about web development, and it consisted of teaching materials from the fields of HTML, CSS, JavaScript, PHP. Our aim was to build a well optimized and user-friendly website from scratch. A webpage needs to be as user-friendly as possible and a lot of CSS elements can be used so as to make it appealing. Responsiveness in any website is fundamentally required to interact with the user, and that is achieved by the implementation of CSS and JavaScript.

It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

2 Objectives

- To make a complete website using both front end, back end and server -side Scripting language.
- How to write program using HTML,CSS,JS and PHP.
- How to create a database for our wesite.
- Create a database in phpMyAdmin.
- Read and process data in a MySQL database.

3 Contents of the Program

In this Course, we have learnt about Html/CSS Basics, Images, Tables, Links, Lists, Forms, charts, media types and gained a deep understanding of Java script, learnt how Java script works and how that knowledge helps us to improve our ability in debugging problems.

- Basics of HTML
- Basics of CSS
- Basics of JavaScript
- Basics of Php
- Javascript
- Jquery
- Introduction to php
- Data Types, Variable arrays, If statements, Loops
- Function and variable commands

3.1 HTML

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

3.2 CSS

- CSS stands for Cascading Style Sheets
- Styles define how to display HTML elements
- Styles were added to HTML 4.0 to solve a problem
- External Style Sheets can save a lot of work
- External Style Sheets are stored in CSS files

3.3 JS

- JS stands for JavaScript
- It is the world's most popular programming language
- JavaScript is a cross-platform, object-oriented scripting language.
- It used to make webpages interactive (e.g., having complex animations, clickable buttons, popup menus, etc.).

3.4 PHP

- PHP is an acronym for "PHP: Hypertext Preprocessor"
- PHP is a widely-used, open source scripting language
- PHP scripts are executed on the server
- PHP is free to download and use
- PHP files have extension ".php".
- PHP files can contain text, HTML, CSS, JavaScript, and PHP code
- PHP can generate dynamic page content.

3.5 DATABASE CONNECTIVITY

- How to connect PHP with MySQL
- Connecting to MySQL Server
- `mysql_connect('host_name','username','password')`
- Selecting Database
- `mysql_select_db('Database Name')`
- Query execution
- `mysql_query(,query to be executed')`

4 Methodology

- Online lecture classes by zoom app
- Online doubt clearing sessions
- Mentor guided platform, syllogistek
- Hands on practices
- Sharing of recorded video lectures through syllogistek platform for refferal study.
- Sharing of printed/ on-line materials(slide/videos/text) for referral study

5 Details of Works done during the Internship (on daily/weekly basis)

WEEK 1:

1. HTML tags (div,span,header,section,footer)
2. CSS (external, embedded, inline)
3. BOOTSTRAP (grid model, badges, panel, modal, carousel, cards) Usage of HTML,CSS,BOOTSTRAP to make a responsive website and form creation..

WEEK 2:

1. JavaScript (to add JS functionality to the form)
2. JQuery (improvising JS with jQuery)
3. Introduction to PHP: Data Types, Variables, Array, Multidimensional array, Conditional statements , loops)
4. GET and POST variable(to be used in forms)
5. \$_SERVER

WEEK 3:

1. Form processing and validation
2. Session variables
3. Setting cookies for website.
4. Database introduction
5. SQL commands: CREATE, ALTER, INSERT, UPDATE, DELETE, TRUNCATE, DROP)
6. Database design and connecting it with front-end.
7. Selecting data from database and it's display in tabular form.
8. Insertion and deletion in database through forms.

WEEK 4:

1. Working with datatables.
2. Combinig all together for final project.

6 Outcomes of the program

After the completion of the course we gained a sound knowledge of Web Development and also learned how to handle with Back end in order to Connect with the DataBase.

7 Conclusion

- This internship was a great experience for me.
- After the successful completion of this program I had learnt a new skill of web page development. And have strong basic foundation on HTML, CSS , JS ,PHP& DATABASE CONNECTIVE.
- Lastly I would thank the II cell of our college for organising the course.
- I acquired deeper knowledge concerning my technical skills.

THANK YOU

