

# Full-Stack web development

## Part 1: HTML - CSS

### **Day-1:**

1. HTML – PART 1
  - a. What is HTML?
  - b. Structure of Webpage
  - c. Working Environment
  - d. HTML Tags
  - e. Adding and formatting texts, title, paragraph, body
  - f. Lists – Ordered/Unordered
  - g. Images

### **Day-2:**

1. HTML – PART 2 | CSS – PART 1
  - a. HTML FORM
  - b. Links
  - c. Tables
  - d. Videos
  - e. Anchor tags
  - f. HTML Divs
  - g. CSS Introduction
  - h. Inline vs Internal vs External styling
  - i. CSS Display

### **Day-3:**

1. HTML 5 – CSS- PART 2
  - a. HTML 5 tags
  - b. New features of HTML5
  - c. CSS Backgrounds, Borders, Margins, Padding
  - d. CSS Font Styling

### **Day-4:**

1. CSS– PART 3 | ADVANCED CSS – PART 1
  - a.
  - b. Stylings Lists
  - c. Styling Tables, Forms
  - d. Gradients
  - e.

### **Day-5**

1. . ADVANCED CSS – PART 2
  - a. Buttons
  - b. Transitions, Transformation, Animations
  - c. Flex

- d. Grid

#### **Day-6**

1. PROJECT BUILDING
  - a. Responsive Media Queries
  - b. Font Awesome
  - c. Project 2 - Blog – Blog frontend using HTML/CSS

## Part 2: HTML - CSS

#### **Day-7**

2. BOOTSTRAP – PART 1
  - a. Bootstrap containers
  - b. Tables, Images, Colors
  - c. Alerts, Buttons
  - d. Spinners, Cards

#### **Day-8**

3. BOOTSTRAP – PART 2
  - a. Pagination, Drop Down
  - b. Carousel
  - c. To-do App – Develop To-do App Frontend using Bootstrap

#### **Day-9**

4. PROJECT BUILDING with BOOTSTRAP
  - a. Making a Blog website

## Part 3: Github

#### **Day-10:**

5. GITHUB(All about git and Github)
6. Hosting the blog website

## Part 4: PHP basics

#### **Day-11:**

1. PHP web architecture
2. PHP xampp/wamp server installation
3. First PHP program.
4. HTML with PHP
5. Comments and PHP manual usage

#### **Day-12:**

1. Variables and constants

2. Data types and Type juggling
3. Integers
4. Float
5. String
6. Boolean
7. String functions

**Day-13:**

1. Conditional Statements-if,else,else if
2. Control structure-switch
3. Operators
4. Logical operators
5. Ternary operators

**Day-14:**

1. Looping statements-while,for,do-while
2. Control structure -Break
3. Control structure-Break, continue

**Day-15:**

1. Array
2. Indexed arrays
3. Printing an indexed array
4. Associative array
5. Looping arrays
6. Looping statement -for each
7. Multidimensional arrays

**Day-16:**

1. Function-introduction
2. Functions and arguments
3. Usage of the return keyword
4. Scope of variables
5. Default arguments in functions

## Part 5: PHP usage

**Day-17:**

1. HTML form with PHP
2. Forms introductions
3. Using POST method
4. Using \$\_REQUEST superglobal
5. Form validation

**Day-18:**

1. Reading data from a file
2. Writing data to a file

## Part 6: Database

### **Day-19:**

1. MYSQL Introduction
2. Data definition language
3. Data manipulation language
4. Drop command

### **Day-20:**

1. MYSQL data types
2. MYSQL constraints
3. Basic SQL

### **Day-21:**

1. Numeric functions
2. Date functions
3. String Functions
4. Control flow Functions

### **Day-22:**

1. Inner join
2. Outer Join
3. Self-join
4. Aggregate Functions, Group By, having
5. Subqueries
6. Any, All operators
7. Indexing

### **Day-23:**

1. Database connection from PHP with MYSQL
2. Creating a database config file
3. Insert data into database in PHP
4. Update data
5. Delete data
6. Retrieve data from the database

## Part 7: Advanced PHP

### **Day-24:**

1. What is a cookie?
2. See the cookie details in the browser
3. Delete the cookie in PHP

### **Day-25:**

1. What is a session? How does the session work?

2. View session id
3. Create session variable
4. Regenerate the session id
5. Destroy session

## Part 8: Project

### **Day 26:**

1. Project Architecture
2. Create a new database using PhpMYadmin
3. Create a new table and insert records using PHPMyAdmin
4. How to export a database
5. Connecting Database
6. Frontend Resource

### **Day-27:**

1. Making Login/Register Page
2. Login and Register PHP

### **Day-28:**

1. Adding Blog Design
2. CREATE blog PHP

### **Day-29:**

3. Profile Page
4. READ blogs in user profile with profile data

### **Day-30:**

1. Update Blog
2. Update PHP

### **Day-31:**

3. DELETE Blog
4. Delete blog PHP
5. Other user profile

### **Day-32:**

1. Adding Comment and Deleting Comment
2. Adding deleting PHP

### **Day-33:**

3. How to register a domain name on the internet
4. Knowing about SSL
5. How to use CPanel and upload projects to hosting

### **Day-34:**

1. Sending email from PHP
2. SMS gateway integration

## Part 9: Object-Oriented Programming with PHP

### **Day-35:**

1. Introduction to OOP in PHP
2. Class-property-method-object
3. Create class and object in PHP
4. Create setters in PHP
5. Use of this keyword

### **Day-36:**

1. Use of constructor
2. Access modifier
3. Inheritance
4. Static keyword
5. Use of Static keyword

## Part 10: JavaScript

### **Day-37:**

1. Starting with javascript
2. First js code in HTML file
3. Alert box
4. Functions and events in js
5. Validate a form using javascript

### **Day-38:**

1. Revision of CSS and Bootstraps
2. Simple DOM manipulation

### **Day-39:**

1. Asynchronous Programming
2. Async Javascript
3. Fetching data from web

### **Day-40:**

4. Ajax
5. Demonstrating Ajax example

### **Day-41:**

1. Display data from the database using Ajax
2. Check availability of username using Ajax
3. Create user signup form using ajax

### **Day-42:**

1. jQuery
2. Use of jQuery

3. Benefits of jQuery
4. First jQuery program

**Day-43;**

1. Validate form using jQuery
2. Select data from the database using jQuery

**Day-44:**

1. Smarty:
2. Install smarty template engine
3. Use loops in smarty
4. Use smarty variable modifiers
5. Create a form using smarty

**Day-45:**

1. Cache a web page using smarty
2. Check the cache using smarty
3. Clear a cache using smarty

## Part 11: WordPress

**Day-46:**

1. What is WordPress
2. Advantage and Disadvantage of WordPress
3. Using Templates
4. Blog Site

**Day-47:**

1. Elementor
2. Customizing Elementor
3. Elementor Templates
4. Common Header Footer

**Day-48:**

1. Ecommerce Website
2. Woocommerce

**Day-49:**

1. LMS website
2. Tutor LMS

**Day-50:**

1. Forminator
2. Woocommerce Checkout Field Editor
3. Redirection
4. Contact Form 7

## Part 12: Knowing frameworks (NOT DETAILS just for guiding what to learn next)

### **Day-51:**

5. Laravel framework
6. MVC pattern
7. Install Laravel

### **Day-52:**

5. The folder structure of Laravel
6. Knowing More about templates

### **Day-53:**

3. TODO list project

### **Day-54:**

4. What to learn next
5. Path to success
6. Choosing the right frameworks of the time

## Part 13: Marketplace

### **Day-56:**

1. Introduction to marketplace
2. Making Portfolio Website Ideas
3. Creating accounts in the marketplace

### **Day-57-60:**

1. Survey marketplace
2. Tips for growing in the marketplace.
3. Choosing right project
4. Showcase projects