

Software Development Training Structure

Frontend – 1st Month

1. **Introduction to Software Principles**
2. **HTML**
 - 2.1 Introduction to HTML
 - 2.2 Basic Structure of a Web Page
 - 2.3 HTML Tags and Attributes
 - 2.4 Basic Web Page
3. **CSS**
 - 3.1 Introduction to CSS
 - 3.2 Types of CSS
 - 3.3 CSS Selectors
 - 3.4 Bootstrap
 - 3.5 SCSS and LESS Introduction + Implementation
 - 3.6 Implement CSS in HTML Basic Designed Page
4. **JavaScript**
 - 4.1 Introduction to JavaScript
 - 4.2 Introduction to DOM
 - 4.3 Types of JavaScript
 - 4.4 Variables, DataTypes and Constants in JavaScript
 - 4.5 Events in JavaScript
 - 4.6 Conditions
 - 4.7 Iterations
 - 4.8 Functions
 - 4.9 String Functions
 - 4.10 Array Functions
 - 4.11 Ajax
 - 4.12 Introduction to jQuery
 - 4.13 jQuery events and functions
5. **Basic project that contains above mentioned areas.**



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Backend – 2nd Month

6. PHP + MySQL

- 6.1 Introduction to PHP
- 6.2 Installation of XAMPP and Sublime Text
- 6.3 Creating first PHP file
- 6.4 Embedding PHP into html file
- 6.5 Comments in PHP
- 6.6 Variables in PHP
- 6.7 Single Quotes vs Double Quotes
- 6.8 Operators
- 6.9 If statement in PHP
- 6.10 If - else in PHP
- 6.11 Switch in PHP
- 6.12 While loop in PHP
- 6.13 Do while loop
- 6.14 For loop in PHP
- 6.15 Arrays in PHP
- 6.16 Associative Arrays
- 6.17 Multi-Dimensional Arrays
- 6.18 Array Traversal with Foreach loop
- 6.19 Functions in PHP
- 6.20 Constants in PHP
- 6.21 Date and time in PHP
- 6.22 Generating Random Numbers and Strings
- 6.23 Explode and Implode Functions
- 6.24 Swapping Variables Values
- 6.25 Including and Require Functions
- 6.26 Md5 Hash in PHP
- 6.27 Superglobals variables
- 6.28 Creating html form
- 6.29 \$_request variable
- 6.30 \$_get variable
- 6.31 \$_post variable
- 6.32 Validating form data
- 6.33 Securing the form with htmlspecialchars()
- 6.34 File Uploading
- 6.35 Session



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- 6.36 Cookies
- 6.37 Introduction of Database
- 6.38 Starting MySQL
- 6.39 Creating a database and tables
- 6.40 Connecting with the database
- 6.41 Inserting data to the database
- 6.42 Retrieving data from the database
- 6.43 Where clause
- 6.44 Order by clause
- 6.45 Retrieving particular data from the database
- 6.46 Updating the data in the database
- 6.47 Deleting data from the database
- 6.48 Create PHP Project

7. Version Control System (GIT)

- 7.1 Introduction to Git
- 7.2 Introduction to Git and Github
- 7.3 Quick Installations
- 7.4 Basics of Git and Github
- 7.5 Basic Git workflow with Github
- 7.6 SSH Authentication
- 7.7 Github Repository
- 7.8 Upload Project to Git

Laravel – 3rd Month

8. Laravel

- 8.1 Introduction to Laravel
- 8.2 Lifecycle
- 8.3 Routing
- 8.4 Model
- 8.5 Migration
- 8.6 Seeders
- 8.7 Controllers
- 8.8 View
- 8.9 Mailing
- 8.10 File Uploading
- 8.11 CRUD Operation

9. Complete Project on Laravel



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