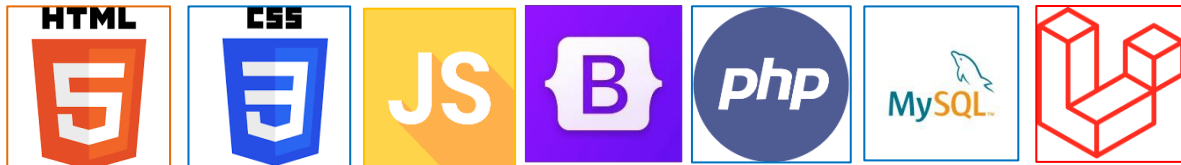


Full Stack Web Development Program



Hafizur Rahman

Team Lead, PeopleNTech Software

Peoplentech

151/7, Good Luck Center (7th & 8th) Floor, Green Road, Dhaka - 1205, Bangladesh

Cell: 01739-981172

E-mail: hafizur@peplentech.net

Module-1: Learning the Basics of Web Technology & HTML5

Day-1	Topic
	<ul style="list-style-type: none">• Discussion about - Web Designing, Web Development, Software Development.• Basic Discussion on - Domain, Hosting, Server, Programming Language, Designing• Language, Structured Query Language, Framework, CMS.• Introduce with coding environment and IDE Setup (Notepad++, VS Code, Sublime Text)• Discuss about HTML 5 (Basic Structure, Tag, Element, Attribute, Comment)• Working with HTML5(Heading, Paragraph, List, Image, Link, Table, Meta, Div Element)

Day-2	Topic
	<ul style="list-style-type: none">• HTML Table Borders, Table Sizes, Table Headers, Padding & Spacing, Colspan & Rowspan, Table Styling.• HTML Block and Inline Elements, HTML Forms, HTML Form Attributes, HTML Form Elements, HTML Input Types, HTML Input Attributes, HTML Input Form Attributes• HTML Media, Audio, Video & HTML YouTube Videos.

Module-2: Practicing CSS Basic to Advances

Day-3	Topic
	<ul style="list-style-type: none">• What is CSS?• CSS syntax and structure• Inline, internal, and external stylesheets• Selectors and properties• Changing font properties (font-family, font-size, font-weight, etc.)• Adjusting text color and background color, Background Image• Working with text alignment and spacing

Day-4	Topic
	<ul style="list-style-type: none">• Understanding the box model (content, padding, border, margin)• Applying different box-sizing models• Positioning elements (static, relative, absolute, fixed)• Gradients, Text Shadow, Box Shadow• Display & Visibility• CSS Pseudo-classes• CSS Pseudo-elements

Day-5	Topic
	<ul style="list-style-type: none">• Transitions and Transformations• Applying 2D and 3D transformations (rotate, scale, skew, translate)• Introduction to Flexbox for flexible layouts• Basic responsive design using media queries

Module-3: Working with Bootstrap frontend framework.

Day-6	Topic <ul style="list-style-type: none">• Understanding Bootstrap Basics<ul style="list-style-type: none">○ Introduction to Bootstrap and its benefits○ Setting up a project with Bootstrap 5○ Exploring the Bootstrap documentation○ Bootstrap Grid System○ Understanding the grid layout and its importance○ Creating responsive layouts using the grid system○ Building a simple webpage with a responsive grid
Day-7	Topic <ul style="list-style-type: none">• Navigation and Typography• Creating navigation bars with the Navbar component• Styling text and headings using Bootstrap typography classes• Adding custom fonts to a Bootstrap project• Afternoon Session: Buttons, Alerts, and Forms• Styling buttons and creating button groups• Using alert components for user notifications• Building forms with Bootstrap form controls and validation
Day-8	Topic <ul style="list-style-type: none">• Bootstrap Component• Integrating third-party libraries with Bootstrap• Bootstrap Collapse & Accordion• Bootstrap Modal, Bootstrap Tab• Designing Responsive Layout using Bootstrap• Template design
Day-9	Topic <ul style="list-style-type: none">• Bootstrap Component• Integrating third-party libraries with Bootstrap• Bootstrap Collapse & Accordion• Bootstrap Modal, Bootstrap Tab• Designing Responsive Layout using Bootstrap• Template design

Module-4: Working with JavaScript & jQuery

Day-10	Topic
	<ul style="list-style-type: none">• JavaScript introduction• Variables• Variable Scopes• Datatypes• Operators• Conditional Statements

Day-11	Topic
	<ul style="list-style-type: none">• JS array• Array methods• JS objects• Loops• Functions• JS practical examples.

Day-12	Topic
	<ul style="list-style-type: none">• jQuery intro• jQuery syntax• jQuery selectors• jQuery events• jQuery all effects methods• jQuery HTML DOM manipulations• jQuery real example

Module-5: Working with PHP & MySQL

Day-13	Topic
	<ul style="list-style-type: none">• Understanding the Web Development Landscape• Introduction to PHP and its Role in Web Development• PHP Development environment setup• Basic concepts on PHP - Syntax, Print / Echo• Variables & variable scopes• Data Types• Operators

Day-14	Topic
	<ul style="list-style-type: none">• PHP functions – function syntax, function properties & arguments, return function, default arguments.• PHP loops – while loop, do-while, for & foreach loop.• PHP conditional statement – if, if-else, if-elseif-else & switch

Day-15	Topic
	<ul style="list-style-type: none"> • PHP strings methods • PHP Math methods • PHP Super global variables • PHP String methods real examples

Day-16	Topic
	<ul style="list-style-type: none"> • PHP Array • PHP Array methods • PHP date & time methods

Day-17	Topic
	<ul style="list-style-type: none"> • PHP Include & require functions • PHP Templating • PHP Cookie • PHP Session • Create a basic login system.

Day-18	Topic
	<ul style="list-style-type: none"> • PHP Form handling • Form validation • PHP file upload

Day-19	Topic: <i>Handling Database</i>
	<ul style="list-style-type: none"> • About database • Connect to Database. • Create table • Insert data into database • Select data from database

Day-20	Topic
	<ul style="list-style-type: none"> • Update data • Delete data • MySQL Where clause • MySQL Order By & MySQL Limit • Create Login & Registration system

Day-21	Topic: <i>OOP Fundamentals</i>
	<ul style="list-style-type: none"> • OOP PHP Knowing details about Class and Object • Understanding Constructor and Destructor • Child Class and Inheritance • Encapsulation – Private, Public and Protected Data Type • Static Variable, Static Function

Day-22	Topic
	<ul style="list-style-type: none"> • Abstract Class, Final Class, Final Method, Interface. • Magic Method - Call, Set • Autoload • Namespace • PHP Traits

Module-: Working with PHP Framework – Laravel-10

Day-23	Topic: <i>Introduction to Laravel Framework</i>
	<ul style="list-style-type: none"> • Introduction Framework, how web works & laravel version • Composer • Laravel installation • Folder structure & artisan commands. • Laravel Request Lifecycle

Day-24	Topic: <i>Routing & Views in Laravel</i>
	<ul style="list-style-type: none"> • Defining Routes and Route Parameters • Creating and Using Views in Laravel • Blade Templating Engine: Layouts, Includes, and Conditionals • Passing Data to Views from Controllers

Day-25	Topic: <i>Database Fundamentals with Laravel</i>
	<ul style="list-style-type: none"> • Working with Laravel's Eloquent ORM • Creating Migrations and Database Schema • Performing CRUD Operations with Eloquent Models • Database Relationships: One-to-Many, Many-to-Many

Day-26	Topic: <i>Form Handling, Validation & File Uploading</i>
	<ul style="list-style-type: none"> • Building and Processing Forms in Laravel • Form Validation and Error Handling • Old Input and Form Re-population • Uploading Files in Laravel • Validating Uploaded Files • Storing Files in Local • Displaying Uploaded Files

Day-27 to Day-36	Project: <i>User Authentication & Dashboard Setup</i>
	<ul style="list-style-type: none"> • Project requirements analysis • Database ERD Design • Module finalized. • Project Development • Server Configuration & Deployment • Final Exam