



Introduction to Web PT 🕒 11 hours of content | 60 hours of practice | Final project

1. HTML

- Introduction to HTML
 - What is HTML
 - Purpose of HTML
 - HTML syntax
- HTML Elements
 - HTML tags and attributes
 - HTML structure and hierarchy
 - Block-level and inline-level elements
 - Semantic HTML
- Document Structure
 - HTML document structure
 - Head and body sections
- Text Formatting
 - Text formatting tags
 - Heading tags
 - Paragraph tags
 - Lists
- Links and Images
 - Anchor tags and href attribute
 - Image tags and src attribute
 - Image formats
- Tables
 - Table tags
 - Table structure
 - Table cells and rows
- Forms
 - Form tags
 - Input types and attributes
 - Submit buttons

2. CSS

- Introduction to CSS
 - What is CSS
 - Purpose of CSS
 - CSS syntax
 - Inline, internal, and external styles
- CSS Selectors
 - CSS selector types
 - Selector specificity
 - Selector combinations
 - Pseudo-classes and pseudo-elements
- Box Model and Layout
 - Box model
 - Margin, border, padding
 - Display property
 - Float and clear
 - Positioning
- Colors and Backgrounds
 - Color models
 - Color properties
 - Background properties
- Responsive Design
 - Responsive units
 - Flexbox
- CSS and HTML
 - Linking CSS and HTML
 - Styling HTML elements
 - Advanced CSS selectors

3. JavaScript

- Introduction to JavaScript
 - What is JavaScript
 - Purpose of JavaScript
 - JavaScript syntax
 - Inline, internal, and external scripts
- Variables and Data Types
 - Variables
 - Data types
 - Type coercion
- Operators and Expressions
 - Arithmetic operators
 - Comparison operators
 - Logical operators
 - Conditional statements
- Functions
 - Function definition and invocation
 - Parameters and arguments
 - Return statement
- Arrays and Objects
 - Array definition and manipulation
 - Object definition and manipulation
 - Properties and methods
 - JSON format
- Loops and Iteration
 - For loop
 - While loop
 - Do-while loop
 - Array iteration methods
- DOM Manipulation
 - Introduction to the DOM
 - DOM traversal and manipulation
 - Event handling
- AJAX and Fetch API
 - Introduction to AJAX
 - Fetch API
 - JSON data format
- Error Handling and Debugging
 - Common JavaScript errors
 - Debugging tools
- ES6 Features
 - let and const keywords
 - Arrow functions
 - Template literals
- jQuery
 - Introduction to jQuery
 - Ajax with jQuery

4. SQL

- Introduction to SQL
 - What is SQL?
 - Purpose of SQL
 - SQL syntax
 - SQL data types
- Creating Tables
 - Creating tables
 - Defining columns
 - Setting primary keys
 - Defining data types
- Inserting Data
 - Inserting data into tables
 - Using INSERT statement
 - Using VALUES keyword
- Reading Data
 - Reading data from tables
 - Using SELECT statement
 - Filtering data with WHERE clause
 - Sorting data with ORDER BY clause
- Updating Data
 - Updating data in tables
 - Using UPDATE statement
 - Modifying data with SET clause
 - Filtering data with WHERE clause
- Deleting Data
 - Deleting data from tables
 - Using DELETE statement
 - Filtering data with WHERE clause

5. PHP

- Introduction to PHP
 - What is PHP
 - Purpose of PHP
 - PHP syntax
 - Inline, internal, and external scripts
- Variables and Data types
 - Variables
 - Data types
 - Type coercion
 - Scope
- Operators and Expressions
 - Arithmetic operators
 - Comparison operators
 - Logical operators
 - Conditional statements
- Functions
 - Function definition and invocation
 - Parameters and arguments
 - Return statement
- Arrays and Objects
 - Array definition and manipulation
 - Object definition and manipulation
 - Properties and methods
 - JSON format
- Control Structures
 - If/else statements
 - Switch statements
 - Loops (for, while, do-while)
 - Break and continue statements
- Forms and User Input
 - Handling form data
 - Retrieving user input with GET and POST
 - Sanitizing and validating user input
 - Session handling
- Cookies
 - Introduction to cookies
 - Setting and retrieving cookies
 - Deleting cookies
- Database Connectivity
 - Introduction to database connectivity
 - Connecting to databases
 - Executing SQL queries
 - Retrieving and manipulating data
 - Prepared statements
- PHP and HTML
 - Embedding PHP in HTML
 - Using PHP to generate HTML content

6. BASIC CRUD application

- Using html, CSS, js, SQL and php to
 - Read data from DB
 - Update data into tables and columns
 - Inserting data into DB
 - Deleting data from DB

7. Complete web application

- Create Login and register mechanism
- Creating pagination
- Updating user profile
- Session in PHP