

# Full Stack Web Developer

**Course Duration: 180 Hrs**

**Name of the Module:** Web Developer

**Duration:** 60 Hrs

**Objective:**

- Acquire a solid foundation in web development concepts and technologies.
- Develop the ability to create and style static web pages using HTML, CSS, and Bootstrap.
- Gain proficiency in enhancing web interactivity with JavaScript and jQuery.
- Understand the basics of server-side programming with PHP and database management using MySQL.
- Learn about Object-Oriented Programming (OOP) principles in PHP for building scalable applications.
- Get familiar with the steps required to prepare a web application for deployment and various hosting options.

## Level 1: Web Developer

**Eligibility:** Candidates pursuing 10+2 and above, or 10+3 years Diploma

**Prerequisites:**

- Basic understanding of HTML, CSS, and JavaScript would be beneficial but not mandatory.
- No prior programming experience is required, but a willingness to learn is essential.

**Name of the unit:** Web Developer Duration: 60 hrs

<b>Performance Criteria (OUTCOME) No.</b>	<b>Contents</b>	<b>Hours</b>
1. Comprehensive understanding of web development technologies, both front-end, and back-end. Proficiency in creating static web pages using HTML and CSS. 2. Ability to enhance web interactivity with JavaScript and jQuery. 3. Knowledge of responsive web design using Bootstrap. 4. Familiarity with server-side programming using PHP and database management with MySQL. 5. Introduction to Object-Oriented Programming (OOP) principles for PHP.	Introduction to Web Development <ul style="list-style-type: none"><li>• Front-End Development</li><li>• Introduction to HTML</li><li>• Introduction to CSS</li><li>• Introduction to JavaScript</li><li>• Introduction to jQuery</li><li>• Responsive Web Design using Bootstrap</li><li>• Back-End Development</li><li>• Introduction to PHP</li><li>• Introduction to MySQL</li></ul>	60

<p>6. Understanding the steps required to prepare a web application for deployment.</p> <p>7. Knowledge of different web hosting options and considerations for deploying web applications.</p>	<ul style="list-style-type: none"><li>• Introduction to Object-Oriented Programming (OOP) with PHP</li><li>• Deployment and Hosting</li><li>• Preparing a Web Application for Deployment</li><li>• Web Hosting Options and Considerations</li></ul>	
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**Name of the Module: Front-End Developer****Duration:** 60 Hrs**Objective:**

- Master advanced HTML techniques to create complex web structures and layouts.
- Gain expertise in using CSS to create visually appealing and responsive designs.
- Learn advanced JavaScript techniques for building dynamic and interactive web features.
- Acquire knowledge of Angular, a popular front-end framework, for building powerful web applications.

**Level 2: Front-End Developer****Eligibility:** Candidates pursuing 10+2 and above, or 10+3 years Diploma**Prerequisites:**

- Proficiency in HTML, CSS, JavaScript.
- Familiarity with Query is recommended.
- This course is designed for individuals who already possess a solid foundation in front-end web development.

**Name of the unit:** Front-End Developer Duration: 60 hrs

<b>Performance Criteria (OUTCOME) No.</b>	<b>Contents</b>	<b>Hours</b>
1. Proficiency in using advanced HTML techniques for structuring web pages. 2. Mastery in creating visually appealing designs using advanced CSS techniques. 3. Ability to implement interactive and dynamic web features using advanced JavaScript techniques. 4. Introduction to the popular Angular framework for building dynamic web applications.	<ul style="list-style-type: none"><li>• Advanced HTML Techniques</li><li>• Advanced CSS Techniques</li><li>• Advanced JavaScript Technique</li><li>• Angular Framework</li></ul>	60

**Name of the Module: Back-End Developer**

**Duration:** 60 Hrs

**Objective:**

- Develop proficiency in advanced PHP techniques for efficient back-end code development.
- Learn about advanced database management with MySQL to handle complex data operations.
- Gain an in-depth understanding of the Laravel framework to build scalable and maintainable applications.

**Level 3:** Back-End Developer

**Eligibility:** Candidates pursuing 10+2 and above, or 10+3 years Diploma

**Prerequisites:**

- Proficiency in PHP and MySQL.
- Candidates must have prior experience in back-end development.
- This course is intended for learners who have a strong grasp of back-end web development concepts.

**Name of the unit:** Back-End Developer **Duration:** 60 hrs

<b>Performance Criteria (OUTCOME) No.</b>	<b>Contents</b>	<b>Hours</b>
1. Proficiency in advanced PHP techniques for efficient back-end code development. 2. Knowledge of managing databases with MySQL. 3. In-depth understanding of the Laravel framework for streamlined back-end development.	<ul style="list-style-type: none"><li>• Advanced PHP Techniques</li><li>• Database Management with MySQL</li><li>• Laravel Framework.</li></ul>	60

**Name of the Module:** RESTful API Developer with MySQL Integration

**Duration:** 60 Hrs

**Objective:**

- Understand the concepts and architecture of RESTful APIs for data communication.
- Gain practical experience in creating RESTful APIs using PHP or Laravel for server-side operations.
- Learn how to consume RESTful APIs on the front-end using jQuery and JavaScript for dynamic content.

**Level 4:** RESTful API Developer with MySQL Integration

**Eligibility:** Candidates pursuing 10+2 and above, or 10+3 years Diploma

**Prerequisites:**

- Intermediate knowledge of front-end and back-end web development.
- Proficiency in HTML, CSS, Javascript, and PHP is required.

**Name of the unit:** RESTful API Developer with MySQL Integration Duration: 60 hrs

Performance Criteria (OUTCOME) No.	Contents	Hours
1. Knowledge of RESTful API concepts and architecture. 2. Ability to create RESTful APIs using PHP or Laravel for data communication. 3. Proficiency in consuming RESTful APIs using jQuery and JavaScript on the front-end.	<ul style="list-style-type: none"><li>• Introduction to RESTful APIs</li><li>• Proficiency in MySQL database integration with RESTful APIs</li><li>• Creating RESTful APIs using PHP or Laravel</li><li>• Consuming RESTful APIs using jQuery and JavaScript</li></ul>	60

<b>Unit</b>	<b>Soft Skills</b>
<b>Topics</b>	<ul style="list-style-type: none"><li>● Verbal/ Non-verbal communication</li><li>● Interview skills</li><li>● Professional/social etiquettes</li><li>● Professional correspondence/ English</li></ul>