

**HACKERU**



# Web Application Development

CR103i

**05**  
Days

# Web Application Development

## Outline

Web applications are used by most people in the world, in every country. Platforms today operate using one or more web applications, within client-server models. Applications in use can be anything from phone apps, to tablet apps, and even desktop apps. This course focuses on the use of client side programming languages such as HTML, CSS, & JavaScript, which are used to create and work with web applications. During the course, students will learn how to build both basic and more advanced web applications, to help them recognize vulnerabilities found within them. The course also covers server-side languages, such as PHP and WordPress, to provide a more comprehensive view of vulnerabilities on both sides.



### Target Audience

- Students with low-level knowledge of programming.
- Students who work with offensive and defensive Cyber Security.
- Students who work with Web Penetration Testing.



### Prerequisites

Before attending this course, students must have the following technical knowledge:

- Working knowledge of the Windows OS.
- Knowledge of 3rd party application installations (such as IDEs).



### Objectives

Upon completing this course, graduates will be able to:

- Create a complete basic web application.
- Use JavaScript to design an interactive web page.
- Work with Apache server to store web pages.
- Create and implement server-side languages.
- Review webpage sources, requests, and methods.



## Content

### Day 1 **Module 01** Introduction to Html

- | Client vs. Server Relationship
- | Client-side Languages review.
- | Server-side Languages review.
- | Communication Protocols.
- | Request Methods.
- | Html Editors.
- | Building project with Visual Studio Code.
- | HTML structure & skeleton.
- | HTML most command tags.
- | Iframe tag.

### Day 1 **Module 02** CSS Basics

- | CSS syntax.
- | Advantages and structure.
- | Id vs. Class Attributes.
- | Implementation Methods.
- | CSS Selectors & Elements.
- | Box Model.
- | Web Browser Inspector.
- | Element Position.

### Day 2 **Module 03** JavaScript Basics

- | Introduction to JavaScript.
- | Implementation Methods.
- | Web console.
- | Variables.
- | Primitive Datatypes.
- | Type identification & Type Casting.
- | Alert & Prompts.
- | Operators, Arithmetic & Logical.
- | Conditions.
- | Dom Manipulation.

### Day 2 **Module 04** Building Web Pages

- | Web Application structure.
- | Root Folder & Paths in Server.
- | jQuery Review.
- | Code Reuse & Libraries.
- | Form & Inputs.
- | XAMPP Web Server.
- | Apache Configuration.



Day  
3

## Module 05 Advanced JavaScript

- | Function structure.
- | Arrays.
- | Loops, For & While.
- | Dev Tools Sources.
- | Debugging & Event Listeners.
- | Obfuscation.
- | Storage, local vs. Session.
- | Lambda Expression.

Day  
4

## Module 06 PHP Basics

- | PHP Implementation.
- | PHP Parser.
- | Php info.
- | Variables & Data Types.
- | Operators, Arithmetic & logical.
- | Conditional statements
- | Loops, For & While.
- | POST & GET Validation.

Day  
5

## Module 07 WordPress CMS

- | WordPress Environment
- | PhpMyAdmin, DB & User Management.
- | WordPress Folders & Configuration.
- | Dashboard Users & Roles.
- | Customization.
- | Pros vs. Cons.
- | Attackers Perspective.



**Create and implement** server-side languages”

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