

Course

Web Development

Introduction

Are you a teenager looking to explore the exciting world of web development? Join our special PHP and Vue.js Development Course designed exclusively for young minds like yours! Best of all, it's completely free of charge!

At Hareland Consulting and OneCode, we understand that some teenagers face different challenges in school. That's why we've created a safe and inclusive environment where you can learn valuable coding skills, make new friends, and boost your confidence in a supportive community.

What will you learn?

PHP Fundamentals: Discover the basics of PHP programming, including variables, control structures, arrays, functions, and object-oriented programming (OOP).

Building with Vue.js: Dive into Vue.js, a modern JavaScript framework, and learn how to create dynamic user interfaces, handle user input, manage application state, and integrate with PHP backend APIs.

Why choose our course?

Free of Charge: We believe in equal opportunities for all, so there's no cost to participate in our course.

Welcoming Environment: Join a community of like-minded individuals where you can be yourself, make friends, and learn without judgment.

Comprehensive Learning: Our curriculum covers the fundamentals of PHP and Vue.js, ensuring a solid foundation in web development.

Mentorship and Support: Benefit from experienced mentors who will guide you, answer your questions, and help you succeed.



Interactive Activities: Engage in fun coding exercises, group projects, and challenges that make learning enjoyable and rewarding.

Who can participate?

Teenagers aged 16-18 (parents are welcome) who have an interest in coding and web development.

Don't miss out on this incredible opportunity to gain valuable skills, boost your confidence, and connect with fellow teenagers who share your passion for coding.

To reserve your spot in our free PHP and Vue.js Development Course or to learn more, visit our website or contact us at post@hareland.eu with the subject: Web Development Course.

Spaces are limited, so get in touch today and take the first step towards learning how web development works.

Curriculum

Month 1: Introduction to PHP Development

Week 1:

- Introduction to PHP and its role in web development
- Setting up PHP development environment with PHPStorm
- Basic PHP syntax, variables, data types, and operators

Week 2:

- Control structures: if statements, loops, and switch statements
- Arrays and array manipulation in PHP

Week 3:

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- Functions in PHP: creating, calling, and passing arguments
 - Understanding function return values and variable scope

Week 4:

- Introduction to object-oriented programming (OOP) in PHP
- Creating classes and objects, properties, and methods
- Encapsulation, inheritance, and polymorphism in PHP

Month 2: Advanced PHP Concepts

Week 1:

- PHP error handling and exception handling
- Debugging techniques and tools in PHPStorm

Week 2:

- Working with databases using PHP and MySQL
- Connecting to a MySQL database and executing queries

Week 3:

- CRUD operations (Create, Read, Update, Delete) with PHP and MySQL
- Building a simple PHP application with database integration

Week 4:

- Session management and cookies in PHP
- User authentication and authorization with PHP



Month 3: Introduction to Vue.js

Week 1:

- Introduction to Vue.js and its role in front-end development
- Setting up a Vue.js development environment with PHPStorm

Week 2:

- Vue.js project structure and components
- Data binding and directives in Vue.js

Week 3:

- Handling user input with forms and events in Vue.js
- Computed properties and watchers in Vue.js

Week 4:

- Vue.js routing and navigation
- Vue.js API integration with PHP backend

Month 4: Advanced Vue.js and Project Development

Week 1:

- Vue.js state management with Pinia
 - Understanding the need for centralized state management
 - Implementing Pinia for managing application-level state
 - Using actions, mutations, and getters in Pinia
- Implementing Pinia in a Vue.js project



Week 2:

- Component communication and reusability in Vue.js
 - Working with props to pass data from parent to child components
 - Emitting custom events to communicate from child to parent components
 - Exploring slots for component composition and reusability
- Building reusable Vue.js components

Week 3:

- Vue.js animations and transitions
 - Animating elements and applying transitions with Vue.js
 - Understanding CSS transitions and animations in Vue.js
 - Implementing enter/leave transitions and animations
- Creating animated Vue.js components

Week 4:

- Vue.js form validation
 - Implementing form validation with custom validation rules
 - Handling and displaying form validation errors
 - Using third-party form validation libraries in Vue.js
- Validating user input in forms using Vue.js