

Course

Advanced Web Development

Introduction

At Hareland Consulting and OneCode, we understand that individuals of all ages may face unique challenges in their learning journey. That's why we've created a safe and inclusive environment where learners of any age can acquire valuable coding skills, forge new connections, and build confidence within a supportive community.

In this course, you will delve into the fundamentals and intricacies of PHP and Vue.js, two powerful technologies used to develop dynamic web applications. Whether you're a teenager, a young adult, or an individual with a passion for learning, this course is designed to empower you with the tools and knowledge needed to succeed in the ever-evolving field of web development.

Our instructors are experienced professionals who will guide you through practical exercises, hands-on projects, and collaborative activities. You will gain a deep understanding of PHP and Vue.js concepts, explore advanced techniques, and discover industry best practices. Whether you're starting from scratch or seeking to expand your programming repertoire, our course caters to learners of all levels.

What will you learn?

Throughout the course, students will work on hands-on projects, participate in coding exercises, and engage in collaborative activities to reinforce their learning. Regular code reviews, discussions, and mentoring sessions will provide guidance and support for the intermediate programmers.

Advanced PHP Concepts: Explore advanced concepts in PHP, including namespaces, autoloading, database interactions, file handling, and PHP design patterns.

PHP Frameworks: Gain proficiency in popular PHP frameworks like Laravel or Symfony, learning how to build web applications, handle routing and middleware, work with databases using migrations and ORMs, and implement authentication and authorization mechanisms.



Advanced Vue.js Techniques: Dive deeper into Vue.js, mastering advanced techniques such as custom directives, filters, component composition, and performance optimization. Learn about testing Vue.js applications and build tools for efficient development and deployment.

Advanced Backend Development: Develop RESTful APIs with PHP, implement advanced database concepts, optimize database performance, apply caching strategies, and explore real-time communication using websockets.

Advanced Frontend Development: Master advanced CSS techniques, responsive design, and CSS frameworks. Integrate JavaScript frameworks with Vue.js for efficient data handling, routing, and frontend performance optimization.

Full-Stack Project Development: Apply your skills to develop a comprehensive full-stack web application, implementing advanced features and functionalities, testing, debugging, and optimizing for performance. Deploy the final project to a hosting environment.

Why choose 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 advanced use of PHP and Vue.js, ensuring a solid understanding of web development and surrounding processes.

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?

Anyone who has an interest in coding and web development, preferably you have basic understanding of Control Structures etc.

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

- Advanced object-oriented programming (OOP) in PHP
- Namespaces and autoloading in PHP
- Database interactions: advanced SQL queries and database normalization
- File handling and manipulation in PHP
- PHP design patterns: MVC, Singleton, Factory, etc.

Month 2: Advanced PHP Frameworks

- Introduction to PHP frameworks (e.g., Laravel, Symfony)
- Building web applications with a PHP framework
- Routing and middleware in PHP frameworks
- Database migrations and ORMs in PHP frameworks
- Authentication and authorization in PHP frameworks

Month 3: Advanced Vue.js Techniques

- Advanced Vue.js components and component composition
- Custom directives and filters in Vue.js
- Optimizing Vue.js performance and rendering
- Testing Vue.js applications
- Vue.js build tools and deployment strategies

Month 4: Advanced Backend Development

- RESTful API development with PHP

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- API authentication and token-based authentication
 - Advanced database concepts and optimization
 - Caching strategies in PHP applications
 - Websockets and real-time communication in PHP

Month 5: Advanced Frontend Development

- Advanced CSS and CSS frameworks (e.g., Bootstrap, Tailwind CSS & Vuetify)
- Responsive design and mobile-first development
- Frontend build tools and optimization techniques
- JavaScript frameworks integration with Vue.js (e.g., Axios, Vue Router)
- Performance optimization and SEO for web applications

Month 6: Full-Stack Project Development

- Building a complete full-stack web application
- Integrating frontend and backend components
- Implementing advanced features and functionalities
- Testing, debugging, and optimizing the application
- Deployment and hosting of the final project