VIJAY KUMAR CHIRUTHA SOFTWARE COURSES

Modules

PHP Full Stack

Module 1: Introduction to Full Stack Development

- Overview of full stack development
- Client-side vs server-side development
- Role of a full stack developer
- Tools & IDEs: VS Code, PhpStorm, XAMPP / WAMP

Module 2: PHP Fundamentals

- Introduction to PHP and server-side scripting
- PHP installation & setup
- Syntax, variables, constants, and data types
- Operators, expressions, and statements
- Control structures: if, switch, loops
- Functions in PHP
- Arrays and array manipulation

Module 3: Advanced PHP Concepts

- Object-Oriented Programming (OOP) in PHP
- Classes, objects, inheritance, encapsulation, polymorphism, abstraction
- Namespaces and traits
- Error handling & exceptions
- Sessions and cookies
- File handling in PHP

Module 4: Database Management with MySQL

- Introduction to MySQL
- Database design and normalization
- SQL basics: SELECT, INSERT, UPDATE, DELETE
- Joins, subqueries, and indexing
- Connecting PHP with MySQL using MySQLi and PDO
- Performing CRUD operations with PHP & MySQL

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Module 5: Frontend Web Development

- HTML5 basics: tags, forms, semantic HTML
- CSS3: selectors, flexbox, grid, responsive design
- JavaScript basics: variables, functions, loops, events
- DOM manipulation and event handling
- AJAX for asynchronous requests

Module 6: Frontend Framework (Optional)

- Introduction to frontend frameworks (ReactJS / AngularJS / VueJS)
- Components, state, and props (for ReactJS)
- Data binding, routing, and events
- Integration with backend PHP APIs

Module 7: PHP Frameworks (Laravel / CodeIgniter)

- Introduction to MVC architecture
- Setting up Laravel / CodeIgniter
- Routing, controllers, and views
- Models and database migrations
- Blade templating (Laravel)
- Authentication & middleware
- CRUD operations in framework

Module 8: API Development

- Introduction to RESTful APIs
- Creating API endpoints in PHP / Laravel
- JSON & XML handling
- CRUD operations via API
- API authentication using JWT / OAuth
- Testing APIs using Postman

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Module 9: Version Control & Deployment

- **Git basics: clone, commit, push, pull**
- **Branching, merging, and conflict resolution**
- **GitHub repository management**
- **Deployment on XAMPP / WAMP / cPanel / Cloud hosting**
- **Basics of Linux commands for deployment**

Module 11: Testing & Debugging

- **Debugging PHP code**
- **Using Xdebug for debugging**
- **Unit testing in PHP (PHPUnit)**
- **Integration testing of APIs**
- **Logging and error monitoring**

Module 10: Security & Best Practices

- **Input validation & sanitization**
- **SQL injection prevention**
- **CSRF & XSS prevention**
- **Password hashing & authentication best practices**
- **Code organization and design patterns**

Module 12: Sample Real-Time Projects

- **E-commerce website: product listing, cart, checkout, payment integration**
- **Social media platform: user authentication, posts, comments, likes**
- **Blog / CMS system**
- **REST API project with PHP backend and frontend integration**
- **Deployment and hosting of live application**

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Module 13: Interview Preparation & Career Guidance

- **Common PHP Full Stack interview questions**
- **Scenario-based coding exercises**
- **Resume preparation and portfolio showcase**
- **Mock interviews & coding challenges**

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- DATA ANALYTICS WITH AI
- DATA ANALYST AND BUSINESS ANALYST WITH AI
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- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
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About US

- We are Providing the Software Courses for both Online and Offline
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- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
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THANK YOU SO MUCH

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