

# WordPress Development

## 1. Introduction to Content Management Systems

- A. Overview of CMS and its applications
- B. Types of CMS (Open-source, Proprietary)
- C. Advantages of CMS for web development
- D. Introduction to WordPress and its ecosystem
- E. WordPress architecture and workflow

## 2. WordPress Setup & Environment

- A. Domain, hosting and server requirements
- B. Installing WordPress (Local & Live server)
- C. WordPress directory structure
- D. Admin dashboard overview
- E. Basic WordPress configuration

## 3. WordPress Core Concepts

- A. Posts vs Pages
- B. Categories and tags
- C. Media management
- D. Menus and widgets
- E. User roles and permissions



## 4. Themes & Customization

- A. Introduction to WordPress themes
- B. Installing and activating themes
- C. Theme structure and template hierarchy
- D. Customizing themes using Customizer
- E. Child themes and best practices

## 5. Plugin Management

- A. Introduction to plugins
- B. Installing and configuring plugins
- C. Popular plugins (SEO, Security, Cache)
- D. Custom plugin concepts
- E. Plugin updates and maintenance

## **6. WordPress Development Basics**

- A. Introduction to PHP for WordPress
- B. WordPress functions and hooks
- C. Actions and filters
- D. Shortcodes and custom post types
- E. Custom taxonomies

## **7. Theme Development**

- A. Creating custom WordPress themes
- B. Template files (header, footer, index)
- C. The Loop and template tags
- D. Responsive design integration
- E. Theme performance optimization

## **8. Plugin Development**

- A. Plugin file structure
- B. Creating custom plugins
- C. Using hooks in plugin development
- D. Form handling and validations
- E. Security considerations in plugins

## **9. Database & Backend Concepts**

- A. WordPress database structure
- B. CRUD operations using WordPress APIs
- C. Custom tables and metadata
- D. Using wp-config and database security

## **10. Security & Performance Optimization**

- A. WordPress security best practices
- B. User authentication and authorization
- C. Caching and performance optimization
- D. Backup and recovery strategies
- E. Website monitoring tools

## **11. SEO & Deployment**

- A. SEO fundamentals for WordPress
- B. SEO plugins and optimization techniques
- C. Website migration and deployment
- D. Hosting optimization
- E. Maintenance and version updates

## **Practical:**

- Design a business website using WordPress
- Create a custom theme
- Develop a custom plugin
- Build an e-commerce site using WooCommerce
- Deploy a live WordPress website



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