

Web Development/Back End Developer: PHP, Laravel & My SQL

<u>PHP</u>	
PHP INTRODUCTION	PHP BASIC
 What is PHP? What is a PHP File? What Can PHP Do? Why PHP? What's new in PHP Versions PHP Installation 	 Embedding PHP code on a page Outputting dynamic text The operational trail Inserting code comments
EXPLORING DATA TYPES	CONTROL STRUCTURES: LOGICAL EXPRESSIONS
 Variables Strings String functions Numbers Part One: Integers Numbers part two: Floating points Arrays Associative arrays Array functions Booleans NULL and empty Type juggling and casting Constants 	 If statements Else and else if statements Logical operators Switch statements
CONTROL STRUCTURES: LOOPS	<u>USER-DEFINED FUNCTIONS</u>
 While loops For loops Foreach loops Continue Break Understanding array pointers 	 Defining functions Function arguments Returning values from a function Multiple return values Scope and global variables Setting default argument values
<u>DEBUGGING</u>	BUILDING WEB PAGES WITH PHP
Common problemsWarnings and errorsDebugging and	Links and URLsUsing GET valuesEncoding GET values

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troubleshooting	 Encoding for HTML Including and requiring files Modifying headers Page redirection Output Buffering
WORKING WITH FORMS AND FORM DATA	WORKING WITH COOKIES AND SESSIONS
 Building forms Detecting form submissions Single-page form processing Validating form values Problems with validation logic Displaying validation errors Custom validation functions Single-page form with validations 	 Working with cookies Setting cookie values Reading cookie values Unsetting cookie values Working with sessions

<u>LARAVEL</u>	
INTRODUCTION TO LARAVEL	LARAVEL ROUTING AND CONTROLLERS
 What is Laravel and its features Installing Laravel and setting up the development environment Laravel project structure and directory layout Composer package manager for Laravel 	 Defining routes and route parameters Creating and organizing controllers Handling HTTP requests and responses Middleware for request processing RESTful resource controllers
LARAVEL VIEWS AND BLADE TEMPLATES	LARAVEL MODELS AND ELOQUENT ORM
 Creating and rendering views Working with Blade templates Passing data to views Layouts and master templates Blade directives and control structures 	 Defining and using Eloquent models Database migrations and schema design Querying and retrieving data with Eloquent Creating and updating records Relationships in Eloquent (one-to-many, many-to-many, etc.)

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LARAVEL VALIDATION AND FORM REQUESTS	LARAVEL MIDDLEWARE AND AUTHENTICATION
 Form validation in Laravel Validation rules and custom validation Creating and using form requests Handling form submission and errors AJAX form validation and submission 	 Understanding middleware in Laravel Creating custom middleware Authentication and user management Role-based access control (RBAC) Social media authentication
LARAVEL DATABASE RELATIONSHIPS	API DEVELOPMENT WITH LARAVEL
 One-to-one, one-to-many, and many-to-many relationships Eager loading and lazy loading Polymorphic relationships Querying related data Advanced relationship techniques 	 Building RESTful APIs with Laravel API authentication and token-based security API versioning and rate limiting Testing and documenting APIs Consuming external APIs in Laravel
LARAVEL MIDDLEWARE AND AUTHENTICATION	LARAVEL TESTING AND DEBUGGING
 Understanding middleware in Laravel Creating custom middleware Authentication and user management Role-based access control (RBAC) Social media authentication 	 Writing unit tests and feature tests PHP Unit integration for Laravel Test-driven development (TDD) practices Debugging techniques and tools Profiling and optimization
LARAVEL DEPLOYMENT AND SECURITY	
 Preparing Laravel applications for production Deployment strategies (e.g., shared hosting, VPS, cloud) Security best practices for Laravel 	

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- Handling security vulnerabilities and attacks
- Backup and disaster recovery

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MYSQL		
MYSQL BASICS	USING PHP TO ACCESS MYSQL	
 MySQL introduction Creating a database Creating a database table CRUD in MySQL Populating a MySQL database Relational database tables Populating the relational table 	 Database APIs in PHP Connecting to MySQL with PHP Retrieving data from MySQL Working with retrieved data Creating records with PHP Updating and deleting records with PHP SQL injection Escaping strings for MySQL Introducing prepared statements 	
BUILDING A CONTENT MANAGEMENT SYSTEM (CMS)	USING SITE NAVIGATION TO CHOOSE CONTENT	
 Blueprinting the application Building the CMS database Establishing your work area Creating and styling the first page Making page assets reusable Connecting the application to the database 	 Adding pages to the navigation subjects Refactoring the navigation Selecting pages from the navigation Highlighting the current page Moving the navigation to a function 	
APPLICATION CRUD	BUILDING THE PUBLIC AREA	
 Finding a subject in the database Refactoring the page selection Creating a new subject form Processing form values and adding subjects Passing data in the session Validating form values Creating an edit subject form Using single-page submission Deleting a subject 	 The public appearance Using a context for conditional code Adding a default subject behaviour The public content area Protecting page visibility 	

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 Cleaning up Assignment: Pages CRUD Assignment results: Pages CRUD 	
REGULATING PAGE ACCESS	ADVANCED PHP TECHNIQUES
 User authentication overview Admin CRUD Encrypting passwords Salting passwords Adding password encryption to CMS New PHP password functions Creating a login system Checking for authorization Creating a logout page 	 Using variable variables Applying more array functions Building dates and times: Epoch/Unix Formatting dates and times: Strings and SQL Setting server and request variables Establishing global and static variable scope Making a reference assignment Using references as function arguments Using references as function return values
INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING (OOP)	OOP IN PRACTICE
 Introducing the concept and basics of OOP Defining classes Defining class methods Instantiating a class Referencing an instance Defining class properties 	 Understanding class inheritance Setting access modifiers Using setters and getters Working with the static modifier Reviewing the scope resolution operator Referencing the Parent class Using constructors and destructors Cloning objects Comparing objects
WORKING WITH FILES AND DIRECTORIES	<u>SENDING EMAILS</u>
 File system basics Understanding file permissions Setting file permissions PHP permissions Accessing files Writing to files 	 Configuring PHP for email Sending email with mail() Using headers Reviewing SMTP Using PHPMailer

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- Deleting files
- Examining file details
- Working with directories
- Viewing directory content



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