

DDT _ Data Dose Teck

Back End Content



- **1. PHP From Scratch**
 - <u>A</u> Syntax, Variables, Loops, Functions
 - P Super globals (\$_GET, \$_POST, \$_SESSION)
 - File Handling (Upload, Read/Write)
- 2. Object-Oriented Programming (OOP)
 - . 🗱 Classes, Objects, Inheritance
 - . 🧳 Traits, Interfaces, Autoloading
 - Namespaces, Composer (Package Management)

📌 Stage 2: Laravel Framework

1. Laravel Basics

- . 🚫 Routing, Controllers, Middleware
- . 🧐 Blade Templating
- Section (CRUD Operations)

2. Advanced Laravel

- Authentication (Sanctum, Passport)
- . 🔌 API Development (RESTful APIs, Postman Testing)
- J Queues & Jobs (for slow/background tasks)
- . 🞧 Events & Listeners



- Database Design: Normalization, ER Diagrams
- · III SQL Queries: JOINs, Subqueries, Indexing
- · 4 Performance Optimization: Query Tuning, Caching (Redis)

Stage 4: Security & Deployment

- **1. Application Security**

 - A Laravel Security (Validation, Hashing, Encryption)
 - (iii) HTTPS, CORS, Secure Headers

2. Deployment

- · 🔛 Shared Hosting vs 📟 VPS (AWS, DigitalOcean)
- . Pocker Basics

Stage 5: Practical Projects

- RESTful API (Laravel + React)
- Authentication System (JWT, OAuth2)
- Pal-time Chat App (Laravel + WebSockets)

E Resources	
. Laravel Docs PHP The Right Way CS50 (Harvard)	