

Week 6 – Introduction to Laravel

Day 1: Laravel Fundamentals

Topics Covered:

- Laravel overview and features
- MVC architecture in Laravel
- Composer and Laravel installation
- Laravel directory structure

Learning Objectives:

- Set up a Laravel development environment
- Understand Laravel's architecture
- Navigate Laravel's directory structure
- Create a basic Laravel application

Practical Exercises:

1. Install Laravel using Composer
 2. Create a new Laravel project
 3. Explore the directory structure
 4. Run the development server
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Day 2: Artisan & Environment

Topics Covered:

- Artisan command line tool
- Environment configuration
- Basic routing in Laravel
- Blade templating basics

Learning Objectives:

- Use Artisan commands effectively
- Configure environment variables
- Create basic routes
- Work with Blade templates

Practical Exercises:

1. Create controllers and models with Artisan
 2. Set up environment configuration
 3. Create basic routes and views
 4. Use Blade templates
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Day 3: Laravel Architecture Presentation Project

Project Requirements:

1. Explain Laravel's architecture
2. Demonstrate directory structure
3. Show basic routing and views
4. Present a simple Laravel application

Deliverables:

- Presentation slides
- Sample Laravel application
- Code examples
- Documentation

Presentation Guidelines:

- 10-15 minute presentation
- Demonstrate working application
- Explain technical decisions
- Be prepared for Q&A

Tips:

- Follow coding standards
- Write clean, maintainable code

- Document your code
- Test thoroughly

Resources:

- [Laravel Documentation](#)