

# Laravel Training Program (2 Weeks)

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## Week 1 - Foundations

### Day 1 - Laravel Basics

Why Learn: Learn MVC and Laravel ecosystem.

Tasks:

- Install Laravel via Composer.
- Explore folder structure.
- Create routes, controllers, and views.

### Day 2 - Blade Templates

Why Learn: Use Blade for UI rendering.

Tasks:

- Create layouts with Blade.
- Use template inheritance.

### Day 3 - Database & Eloquent ORM

Why Learn: Work with DB using Eloquent.

Tasks:

- Connect MySQL with Laravel.
- Migrations for users table.
- CRUD with Eloquent models.

### Day 4 - Forms & Validation

Why Learn: Secure user inputs.

Tasks:

- Registration form with validation.
- Custom validation messages.

## **Day 5 – Authentication (Part 1)**

Why Learn: Secure apps with auth.

Tasks:

- Install Laravel Breeze/Jetstream.
- Implement login & registration.

## **Day 6 – Authentication (Part 2)**

Why Learn: Role-based auth.

Tasks:

- Middleware for admin/user roles.
- Restrict routes by roles.

## **Day 7 – File Uploads**

Why Learn: Media handling.

Tasks:

- Upload profile pictures.
- Store in storage/app/public.

## **Week 2 – Advanced Features**

### **Day 8 – Emails & Notifications**

Why Learn: Notify users.

Tasks:

- Send email verification.
- Trigger notifications.

### **Day 9 – Error Handling & Logging**

Why Learn: Debug & monitor apps.

Tasks:

- Customize error pages.

- Use Laravel Log.

## Day 10 – Security Best Practices

Why Learn: Protect Laravel apps.

Tasks:

- CSRF, XSS protection.
- Validate inputs.

## Day 11 – Pagination & Filtering

Why Learn: Efficient datasets.

Tasks:

- Pagination with Eloquent.
- Filtering & search.

## Day 12 – REST API in Laravel

Why Learn: Build APIs.

Tasks:

- Create API routes & resources.
- Protect API with Sanctum.

## Day 13 – Testing

Why Learn: Ensure code quality.

Tasks:

- PHPUnit feature tests.
- API tests with assertions.

## Day 14 – Deployment + Capstone Project

Why Learn: Deploy and finalize project.

Tasks:

- Deploy to shared hosting/VPS.

- - Capstone: Blog/Events app with auth, CRUD, file uploads, notifications, API.