

Course Outline



Laravel Certified Developer

Building Web Applications with Laravel

Chapter	Topics	Objectives
Chapter 1	Architecture	<ul style="list-style-type: none">• Request Lifecycle• Service Container Binding and Resolution• Service Providers• Facades• HTTP Verbs
Chapter 2	Artisan Console	<ul style="list-style-type: none">• Generating Commands• Command I/O• Registering Commands• Executing Commands
Chapter 3	Caching	<ul style="list-style-type: none">• Drivers / Configuration• Storing Items• Retrieving Items• Cache Tags• Creating Custom Drivers
Chapter 4	Collections	<ul style="list-style-type: none">• Creating / Extending Collections• Collection Methods• Higher-order Messages
Chapter 5	Controllers	<ul style="list-style-type: none">• Defining Controllers• Controller Namespacing• Single Action Controllers• Middleware• Resource Controllers• Dependency Injection• Route Caching
Chapter 6	Database	<ul style="list-style-type: none">• Query Builder• Pagination• Migrations• Seeding
Chapter 7	Eloquent ORM	<ul style="list-style-type: none">• Conventions• Relationships• Eloquent Collections• Mutators / Accessors• API Resources• Serialization• Scopes

Chapter 8	Events	<ul style="list-style-type: none"> • Registering Events / Listeners • Queued Listeners • Dispatching Events • Subscribing to Events
Chapter 9	File Storage	<ul style="list-style-type: none"> • Configuration / Drivers • Storing / Retrieving Files • Custom Filesystems
	Frontend	<ul style="list-style-type: none"> • Blade Templating • Localization • Asset Compilation
	Helper Methods	<ul style="list-style-type: none"> • Arrays / Objects • Paths • Strings • URLs • Misc
	Logging	<ul style="list-style-type: none"> • Configuration • Writing to Specific Channels • Creating Custom Channels
	Mail	<ul style="list-style-type: none"> • Drivers / Configuration • Generating Mailables • Writing Mail • Sending Mail • Markdown • Local Development
	Middleware	<ul style="list-style-type: none"> • Defining / Registering Middleware • Middleware Parameters
	Notifications	<ul style="list-style-type: none"> • Creating Notifications • Sending Notifications • Mail Notifications • Markdown • Database Notifications • Broadcast Notifications • SMS Notifications • Slack Notifications • Custom Channels
	PHP	<ul style="list-style-type: none"> • Version 7.1+ • Composer • Autoloading Standards
	Package Development	<ul style="list-style-type: none"> • Discovery • Service Providers • Resources • Commands • Assets • Publishing File Groups
	Queues	<ul style="list-style-type: none"> • Drivers / Configurations • Creating / Dispatching Jobs • Running Queue Workers • Supervisor • Handling Failed Jobs

	Routing	<ul style="list-style-type: none"> • Redirects • Route Parameters • Named Routes • Route Groups • Route Model Binding • Rate Limiting
	Security	<ul style="list-style-type: none"> • Authentication • Authorization • Encryption / Hashing • CSRF Protection • XSS Protection
	Sessions	<ul style="list-style-type: none"> • Configuration • Storing Data • Retrieving Data • Deleting Data • Flash Data • Custom Drivers
	Task Scheduling	<ul style="list-style-type: none"> • Scheduling Artisan Commands • Scheduling Queue Jobs • Scheduling Shell Commands • Time Zones • Preventing Task Overlaps • Maintenance Mode
	Testing	<ul style="list-style-type: none"> • Creating / Running Tests • HTTP Tests • Session / Authentication • Testing File Uploads • Available Assertions • Browser Tests / Dusk • Data Factories • Fakes / Mocking
	URL Generation	<ul style="list-style-type: none"> • Named Routes • Controller Actions • Default Values
	Validation	<ul style="list-style-type: none"> • Form Requests • Manually Creating Validators • Error Messages • Validation Rules • Custom Validation Rules
	Views	<ul style="list-style-type: none"> • Creating Views • Passing Data to Views • View Composer
	Websockets	<ul style="list-style-type: none"> • Broadcasting Events • Receiving Events • Broadcasting Channels • Presence Channels • Client Events