RESTful Web Services with PHP and Laravel

GETTING STARTED

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Overview

What this course will teach you

Refresher on RESTful services

Refresher on Laravel

Course Structure

Introduction
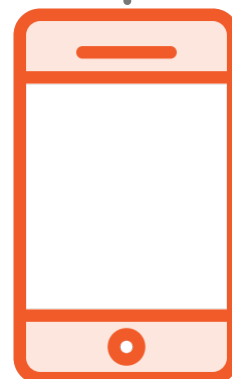
Designing & Structuring a RESTful Service

Routing

Requests & Responses

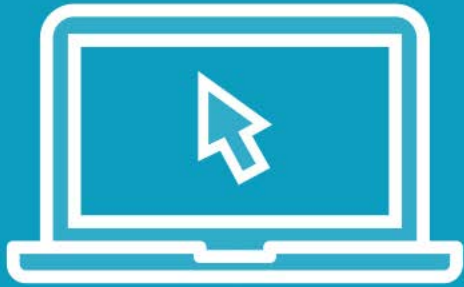**CRUD Operations**

Authentication

What's the Common Ground?

RESTful Services provide uniform, standardized access with clear request requirements and response structure.

Demo

Access APIs with Postman

Find a location with Google Maps API

Understand the result

See what we'll build in this course

RESTful Services – Structure

RESTful Service Structure

RESTful Services – Principles

RESTful Constraints (1/2)

Uniform Interface	Stateless	Cacheable
Resources defined via URLs Client sends representation (e.g. JSON) HTTP Protocol	No client information stored on server All required information contained in request	Clients can cache data if marked as cacheable

RESTful Constraints (2/2)

Client and server are clearly separated	Client can't tell if connected to end server or intermediate	Executable code may be transferred from client to server
Client-Server	**Layered System**	**Code-on-Demand (optional)**

Laravel

The PHP Framework for Web Artisans

Laravel Website

Comprehensive MVC Framework

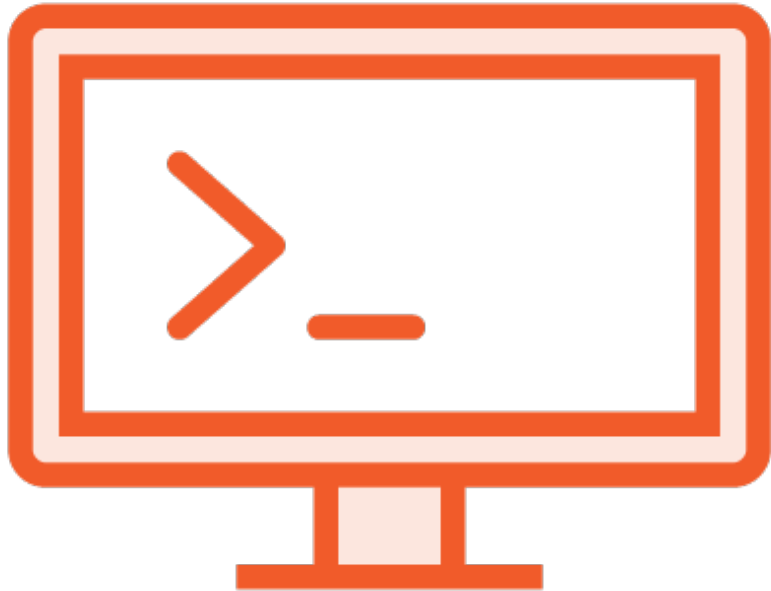|		
Model & Database Access	View & Templating Engine (Blade)	Controller
Request & Response Flow	Middleware	Routing
Validation	Session Management	Authentication
Helpers & Facades	Extendable	Much More ...

Setup on local machine (MAMP, XAMPP...)

Setup on virtual machine (Vagrant - Homestead)

Setup on cloud workspace/IDE

Setup Process

```
// Fetch composer from getcomposer.org

// Create Laravel project with composer

composer create-project laravel/laravel PROJECT_FOLDER

// Configure .env file (database)

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=homestead
DB_USERNAME=homestead
DB_PASSWORD=secret
```

Laravel course(s) on Pluralsight

Official Laravel documentation

Google is your friend ;-)