PHP/LARAVEL FRAMEWORK CURRICULUM

(FRONTEND & BACKEND WEB DEVELOPMENT)

What Student will learn.

- Learn to build applications using Laravel

- To install Laravel using Windows and MAC

- You will learn how use Laravel

- You will learn how to use routes

- You will learn how to create and use Controllers and what they are

- You will learn how to create Views an what they are

- You will learn to use the templating engine Blade

- How to connect and use Databases

- How to create migrations and what they are

- You will learn about Laravel ORM (Object Relational Mapper) and Raw SQL queries. Database stuff :)

- How to use Laravel Tinker - Command line program to play around with Laravel without persisting data

- Database: Eloquent One to One - CRUD

- Database: Eloquent One to Many - CRUD

- Database: Eloquent Many to Many - CRUD

- Database: Eloquent Polymorphic - CRUD

- Form Validation

- You will learn to download third party libraries to add to Laravel

- You will learn to upload files

- You will learn about Middleware and security

- You will learn about sesssions

- You will learn about sending emails

- You will learn Github or version control

- You will learn how to install a WYSIWYG editor

- To install a commenting system / Disqus

- You will learn to create a BULK functionality that you can use the CRUD on it

- You will learn to deploy Laravel on share hosting accounts, like godaddy

- And lots of more cool things

Course content

- Introduction to Laravel and MVC

- New - Using MySQL

- New- Installing Node.js

- New - Installing Laravel

- Installing a Specific Version of Laravel

- NEW - PHP Upgrade

- Installing and Using MySQL on MAC OS, WINDOW AND LINUX

- New - Installing Node.js

- New - Tools and Installing Laravel

- New - Using Valet in your Laravel projects - OPTIONAL

- Installing a Specific Version of Laravel

Laravel Fundamentals - Routes

- New - Laravel Structure Overview

- Route Introduction

- Routes part 1

- Routes part 2

- Naming Routes

Laravel Fundamentals - Controllers

- Creating Controllers

- Routing Controllers

- Passing data

- Resources and Controllers

- Creating views and custom method

- Passing data to views

Laravel Fundamentals - Laravel Blade templating engine

- Master layout setup

- Some more blade features

Laravel Fundamentals - Database - Laravel Migrations

- Environment configurations

- New - Windows OS - Migrations

- New - MAC OS - Migrations

- Creating migrations and dropping them

- Adding columns to existing tables using migrations

- Some more migration commands

Laravel Fundamentals - Raw SQL Queries

- Inserting data

- Reading Data

- Deleting Data

Laravel Fundamentals - Database - Eloquent / ORM

- Reading Data

- Reading / Finding with Constraints

- More ways to retrieve data

- Inserting / Saving Data

- Creating data and configuring mass assignment

- Updating with Eloquent

- Deleting Data

- Soft Deleting / Trashing

- Retrieving deleted / trashed records

- Restoring deleted / trashed records

- Deleting a record permanently

Laravel Fundamentals - Database - Eloquent Relationships

- One to One relationship

- The inverse relation

- One to many relationship

- Some random tips

- Many to many relations part 1

- Many to many relations part 2

- Querying intermediate table

- Has many through relation part 1

- Has many through relation part 2

- Polymorphic relation part 1

- Polymorphic relation part 2

- Polymorphic relation the inverse

- Polymorphic relation many to many part 1

- Polymorphic relation many to many part 2

- Polymorphic relation many to many - retrieving

- Polymorphic relation many to many - retrieving owner

Laravel Fundamentals - Database -

- Creating data with tinker

- Finding record and using constraints in tinker

- Updating and deleting with tinker

- Playing around with relations in tinker

Database - Eloquent One to One Relationship CRUD

- New - Create a new laravel project with migrations

- Database configuration and migration

- Setting up Relations

- Creating data for user

- Updating Data

- Reading and deleting data

Database - Eloquent One to Many Relationship CRUD

- Database migrations

- Relationships and mass assignment

- Inserting Data

- Reading Data

- Updating Data

- Deleting Data

Database - Eloquent Many to Many Relationship CRUD

- New - Create a new Laravel Installation

- Database migrations

- Relationships and mass assignment

- Inserting Data

- Reading Data

- Updating Data

- Deleting Data

- Attaching, detaching and syncing

Database - Eloquent Polymorphic Relationship CRUD

- New - Create a Laravel installation with the Database setup

- Relationships and mass assignment

- Inserting Data

- Reading Data

- Updating Data

- Deleting Data

- Extra techniques

Database - Eloquent Polymorphic Many to Many Relationship CRUD

- Creating a New Project with some Migrations - Classwork

- Relationships and mass assignment

- Inserting Data

- Reading and updating data

- Deleting Data

Forms and Validation

- Setting up views and routes

- 4-Setting the markup for create

- Setting up the controller and view

- Persisting data to database

- Reading data

- Showing individual posts and updating

- Preparing the edit view and setting up the token

- 10- Editing records and redirecting

- 11- Deleting

Forms - Package and validation

- Installing package and testing

- Modifying our create form with the form package

- Modifying our edit and delete forms with the form package

- Basic validation

- Displaying errors

- Advance validation

Database - Some more model manipulation

- Dates

- Accessors

- Mutators

Forms - Uploading files

- UPDATE - IMPORTANT - ABOUT UPLOADING

- Modifying our create view for file input

- Retrieving file data

- Persisting file data into the database

- Displaying images and using accessors to make it easy

Form - Login

- New laravel installation

- Database connection and migrations

- Creating the login system under 1 minute

- Login creation overview

- Retrieving authenticated user data

Middleware - Security / Protection

- Create a new laravel installation (challenge)

- Registering a new middleware and using it

- A more practical way to use middlewares 1 - roles, migration and relations setup

- A more practical way to use middlewares 2 - Custom method

- A more practical way to use middlewares 3 - Custom method

- A more practical way to use middlewares 4 - Custom method

Laravel Sessions

Setting and reading sessions

- Global session function deleting
- Flashing data

Laravel - Sending Email / Api

- New laravel installation
- Overview on mailgun
- Email verification
- Configuration
- Sending email part 1 - route
- Custom domain

Git and Github - Version Control Git Installation

- Git commands
- Git crash lecture
- Git workflow
- Branches
- Creating repositories on Github
- Git settings

- Cloning and pushing to Github

- Pull request and pulling changes

- Contributing to the project

New - Laravel - Front-End

- New - Adding Bootstrap plus Login & Registration
- How to add templates to Laravel projects

Laravel data seeding

- Creating a simple seeder
- Creating a more advanced seeder with factories
- Let's create factories for all our database tables

New - Laravel Components

- Creating components part 1
- Creating components part 2
- Creating components part 3

New Application - Laravel

- Setting p views part 1

- Setting p views part 2

- Admin View creation setup

- Menu links and migration

- Blog Post view

- Posts migration

- Creating dummy data with relationships - Users with Posts

- Displaying posts on home page

- Displaying individual posts

- Creating a post from admin - Part 1

- Creating a post from admin - Part 2

- Creating a post from admin - Part 3

- Displaying a post from admin - Part 1

- Displaying a post from admin - Part 2

- Displaying a post from admin - Part 3

- Displaying the owner of the post

- CODE - IMPORTANT UPDATE FOR IMAGE ACCESSOR

- Example of Mutators and Accessors with an image path

- Flash messaging and deleting

- Updating a post part 1

- Updating a post part 2

- Creating Authorization Policies part 1

- Creating Authorization Policies part 2

- Creating Authorization Policies part 3 and refactoring

- Laravel pagination

New Application - Laravel - Roles & Permissions - Migrations & Relationships

- Creating migrations part 1

- Creating migrations part 2

- Setting up relationships

- Using Tinker to insert Roles and Permissions

- Using permission on Dashboard example

New Application - Laravel - Creating a User Profile

- Creating a user Profile part 1

- Creating a user Profile part 2

- Adding a Username

- Updating the profile

New Application - Laravel - Admin Users

- Displaying all users part 1

- Displaying all users part 2

- Deleting users

- Creating some roles again

- Creating and using Middlewares for Route Authorization

- A little Recap

- Admin and Model Owner Same Access

- Routes for large applications

- Component nesting

New Application - Laravel - User Profile Roles

- Displaying roles in User profile

- Detecting roles for the user

- Attaching roles part 1

- Attaching roles part 2

New Application - Laravel - Permissions & Roles - CRUD

- CRUD - Create & Read - part 1

- CRUD - Create & Read - part 2

- CRUD - Create & Read - part 3 - validation

- CRUD - Deleting

- CRUD - Updating part 1

- CRUD - Updating part 2

- CRUD - Updating part 3

- Displaying role permissions

- Attaching and Detaching role permissions

- Displaying and deleting permissions

- Updating permissions

- Protecting routes globally & locally

Extra feature: Deploying our app to a shared hosting account

- SSH - WINDOWS OS

- SSH - MAC OS

Requirements

- Basic OOP PHP