

Midterms Examination

Subject: ITELEC1 (Web Frameworks)

Section: IT3A

Date: November 13, 2023

Goal: Create A Simple Product Management API with Laravel Framework

Follow the steps below and add the necessary codes to complete the project:

1. Install Laravel Project - using composer command (**10 points**)
 - [Laravel Documentation - Your First Laravel Project \(Composer Command\)](#)
 - Project Name: **yourname-product-management-api** (eg. erick-product-management-api)
 - **Notes:**
 - After installing the Laravel Framework, update **.env** file to change **DB_DATABASE=yourname_midterms** (eg. **DB_DATABASE=erick_midterms**)
 - Open your localhost/phpmyadmin - and create a database with a name having this format: **yourname_midterms** (e.g **erick_midterms**)
 - As you can see, the database name on your **.env** file matches the name of your database name on your localhost/phpmyadmin
2. Create table(s) using Laravel Migrations - using artisan command (**10 points**)
 - [Laravel Documentation - Generating Migrations \(Artisan Command\)](#)
 - Table Name: **products**
 - Table Fields:
 1. id - primary key - this is default in Laravel - **id()**
 2. name - string
 3. brand - string
 4. quantity - integer
 5. price - double
 6. created_at and updated_at - this is default in Laravel - **timestamps()**
 - **Note:** Don't forget to run the artisan **migrate** command to create the table in the database
3. Create a Model Class - using artisan command (**10 points**)
 - [Laravel Documentation - Generating Model Class \(Artisan Command\)](#)
 - Model Name: **Product**
4. Create a Controller Class - using artisan command (**10 points**)
 - [Laravel Documentation - API Resource Routes \(Artisan Command\)](#)
 - Controller Name: **ProductController**
 - Only required methods: **index()**, **store()** and **show()**
 - **Note:** We are creating Controller for API - don't forget to add the **--api** flag in the artisan command (Follow the link)
5. Add CRUD Routes - on **routes/api.php** (**10 points**)
 - [Laravel Documentation - The Default Route Files](#)
 - Create At least **3 Routes**:
 - **GET /products** - fetching all products
 - **GET /products/{id}** - fetch single product by product id
 - **POST /products** - create new product

After completing all the steps, please zip the folder of your project and ask the class mayor to save your project in a flash drive. Good luck!