

## Task Description:

You are tasked with creating a simple product management system using Laravel and [Filament](#) open-source dashboard package. The PMS consists of categories and products with their one-to-many relationship.

Both categories and products should have basic CRUD functionality in the dashboard, but when the admin creates or updates a product it should select the related category from a select box that shows all categories' names in the product form.

## Requirements:

### 1- Installation and Setup:

- Use Filament as a project dashboard version 2 is preferred
- Creating a migration for the `categories` table with fields `name`, `description`, and id, timestamps columns
- Creating a migration for the `products` table with fields `name`, `description`, `price`, `is\_available`, `image` and id, timestamps columns

### 2- Categories:

- You have to show a popup to the admin “This category can’t be deleted due to its attached products” in case he is trying to delete a category with attached products. (BONUS)

### 3- Products:

- You have to make the admin select a category (required) when he inserts or updates a product.
- Add the related product category name as a column in products table.
- You have to add a toggle for a product form and table for is\_available option the show and hide product depending on it.
- You have to prevent the admin from deleting products at all, admin **CAN NOT!!** delete any product, don't show the delete button anyway.

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#### 4- Users:

- Don't care about the design for the below steps Implement functionalities first then you can beautify the design later after you finish.
- Create a simple page or table in the website to list all available products.
- Create a simple form in the website to make users able to insert products from the website.
- Implement Authentication system (register, login and logout) to restrict adding product process from - website to make user should login to insert a product (BONUS)
- Add Forgot password feature to users only, and not for admins in the dashboard. **(BONUS)**

#### 5- API:

- Apply CRUD operations for categories and products on a Postman collection (consider categories and products deleting process as previously)
- Apply Authentication system from API side to protect the previous actions. **(BONUS)**

#### 6- Emails:

- Add MAIN\_EMAIL environment variable with any valid email for testing.
- Create a product created email with any dummy content
- Once product has been created from (admin dashboard, users website, or api) you have to send the product created email to the MAIN\_EMAIL.
- You can use any email testing platforms such as [Mailtrap](#)
- Instead of using testing platforms you can send the email from a real gmail account. **(BONUS)**

#### 7- Bonus (Optional):

- Add payment option for GUESTS with any fake or dummy data with [MyFatoorah](#) payment gateway using testing tokens and cards. (BONUS)
- Any bonus point increases your opportunity to be accepted.

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## 8- Submission Instructions:

- Create a repository for the task.
- Commit your changes in logical and well-documented steps.
- Provide clear instructions on how to set up and run your application.
- Create a Readme file to describe your entire work. **(Bonus)**
- Upload your project on a real or free hosting. **(Bonus)**
- Reply to the task email and determine your github repository link and the domain of your uploaded project if exists.

## Task Due Date:

It must be delivered within 7 days of the sending date.

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