Back-End Intern Assessment

1. Set up a new Laravel project:
    o   Create a new Laravel project using the Laravel CLI.
    o   Name the project appropriately.
2. Create a MySQL database for the application:
    o   Create a new MySQL database for the blog application.
    o   Use the provided credentials to connect to the database.
3. Implement database migrations for the necessary tables:
    o   Create Laravel migrations to generate the required tables for the blog application.
    o   The tables should include:
        ▪   posts: id, title, content, created_at, updated_at.
        ▪   categories: id, name, created_at, updated_at.
4. Create models for the Post and Category entities:
    o   Create Laravel models for the Post and Category entities.
    o   Include the necessary relationships between the entities.
5. Implement API endpoints for posts:
    o   Create the necessary API endpoints for CRUD operations on the posts.
    o   Create endpoints to create a new post, retrieve a list of all posts, retrieve a single post, update a post, and delete a post.
6. Implement API endpoints for categories:
    o   Create the necessary API endpoints for CRUD operations on the categories.
    o   Create endpoints to create a new category, retrieve a list of all categories, retrieve a single category, update a category, and delete a category.
7. Implement API endpoint for managing post-category relationships:
    o   Create an API endpoint to manage the relationship between posts and categories.
    o   Allow assigning one or more categories to a post and removing categories from a post.
8. Add search functionality through API endpoints:
    o   Implement a search functionality that allows users to search for posts based on their title or content.
    o   Create an API endpoint that handles the search query and retrieves relevant posts from the database.

    *Note: The delete needs to be soft delete.