ExplorAI - An AI blog application

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Agenda

- What did we do?
- What are needed?
- How to do it?
- What can be improved?

What did we do?

- ExplorAI Blogs - The AI Blogs application is a web-based platform developed using CodeIgniter 4, a PHP framework, and MySQL database, with deployment on the XAMPP server.
- User Authentication: The application provides user authentication functionality, allowing users to register, log in, and manage their accounts. This ensures that only authenticated users can create, edit, or delete blog posts.
- CRUD Operations: Users can perform CRUD (Create, Read, Update, Delete) operations on blog posts. They can create new posts, view existing posts, edit their own posts, and delete posts when necessary.
- User-Friendly Interface: The user interface is designed to be intuitive and user-friendly, providing a seamless experience for both content creators and readers.

What are needed?

- Setting up XAMPP to run Apache and Mysql servers.
- Install Codeigniter 4 codebase.
- Creating database with user and post tables with all required columns and datatypes.
- Set up your database configuration in the .env file.
- Create the migration files.
- Set the CI environment to development for troubleshooting and debugging.
- Use spark to run the application.

How to do it?

- Let's follow the MVC order:
    - Model - Add the user and post models
    - View - Create the layouts and views(HTML, CSS and PHP)
    - Controller - Develop controllers to handle user requests, process data, and interact with models and views.
- Routes - Define routes in the Routes.php file (located in the app/Config directory) to map URLs to controller methods.
- Authenticating the request - Filters for login and admin are used to intercept HTTP requests before they reach your application's controllers.
- Pagination - The Pager of CI4 is used for creating pagination links making it easier for users to navigate through the blogs.

Future implementations

- Features - The blogs can be filtered using users, time frames, Tags and any other features.
- UI - A lot of improvements, bootstrap and CSS can be added at various place (Pagination definitely).
- Restricting the likes for a post based on users.
- Retaining the indentations of blog contents and providing font-styles and options.
- Search functionality could be added.
- Prevent XSS (Cross-Site Scripting) and SQL injection attacks.

Blogging Time!