

****Task: Building a Simple Content Management System (CMS)- Using Python****

Create a basic content management system (CMS) using Python. This project will involve creating a web-based CMS for managing articles. Here are the requirements for this task:

1. ****Web Application****: Build a web application using a web framework such as Flask or Django. This web application will serve as the CMS.
2. ****User Authentication****: Implement user authentication. Users should be able to register, log in, and log out. Only logged-in users should have access to CMS features.
3. ****Database****: Use a relational database (e.g., SQLite, PostgreSQL) to store articles and user information. Create a database schema that includes tables for articles and users.
4. ****Article Management****:
 - Users should be able to create, edit, and delete articles.
 - Articles should have fields like title, content, publication date, author, and tags.
 - Implement a WYSIWYG editor for creating and editing article content.
5. ****Article Listing****:
 - Create a page that lists all the articles with pagination.
 - Implement search and filter options to find articles by title, author, and tags.
6. ****User Roles****:
 - Implement different user roles, such as regular users and administrators.
 - Only administrators should have access to article deletion and user management features.
7. ****File Uploads****:
 - Allow users to upload and attach images or other files to their articles.
 - Store these files in a designated directory and associate them with the articles.
8. ****Security****:
 - Implement security measures to prevent common web application vulnerabilities, such as cross-site scripting (XSS) and cross-site request forgery (CSRF).
9. ****Testing****: Write unit tests for different parts of the application to ensure its functionality and security.
10. ****Documentation****: Document your code, including how to set up and run the application, and provide clear explanations for how the various components work.

11. ****Deployment****: Deploy the CMS on a web server (e.g., Heroku, AWS, or a local server) to make it accessible online.

12. ****Optional Features**** (bonus points):

- Comment system for articles.
- User profile pages with avatars.
- Email notifications for new articles or comments.
- Social media sharing and integration.

Once done with the task, share the git hub link of ask or zip file of task done on vipul@gl.block-stars.com

And deadline to complete the task is 2hrs