

WordPress PHP Challenge: To-Do List Plugin

Project Overview

Create a WordPress plugin that implements a To-Do List application using PHP, MySQL, and HTML/CSS. The plugin should allow users to manage their tasks by adding, editing, and deleting them. This challenge will assess your WordPress development skills and adherence to best practices.

Project Requirements

1. Git Repository and Commits:

- Create a public Git repository on GitHub or GitLab or similar platform.
- Make meaningful and organized commits throughout the development process. Each commit should have a clear purpose.

2. Database Setup:

- Use the WordPress database API for database interactions.
- Create a table named tasks with the following fields:
 - id (auto-increment)
 - title (varchar, 255)
 - description (text)
 - created_at (datetime, default to current timestamp)
 - updated_at (datetime, default to current timestamp)

3. WordPress Plugin Admin area:

- Implement CRUD operations (Create, Read, Update, Delete) for tasks using WordPress plugin structure.
- Create a user-friendly web interface within the WordPress admin area to:
 - Display a list of tasks.
 - Add a new task with a title and description.
 - Edit existing tasks.
 - Delete tasks.

4. WordPress Plugin Public-Facing Website:

- Extend the To-Do List functionality beyond the admin area by incorporating a front-end display on the public-facing website.
- Create a custom Gutenberg block and a shortcode for users to view their tasks on the website.
- Design the display according to WordPress theme standards, ensuring compatibility with the overall theme aesthetics.
- Utilize WordPress template files or shortcodes to seamlessly integrate the To-Do List display into various sections of the website.
- Apply responsive design principles to optimize the display for various devices, ensuring a consistent and user-friendly experience.

5. README.md:

- Include a detailed README.md in the repository that explains how to:
- Install the WordPress plugin.
- Navigate and use the To-Do List application within the WordPress admin area.

6. Docker (Optional- Bonus Points):

If you're familiar with Docker, create a `Dockerfile` and `docker-compose.yml` file to containerize the application. Provide instructions on how to run the application using Docker.

7. Showcase Your Expertise (Optional- Bonus Points):

This point is open-ended and gives you the opportunity to add any additional features or improvements to the To-Do List application that demonstrate your expertise in web development.

You can consider implementing advanced features such as localization, task filtering, task prioritization, due dates, categories, search functionality, or any other innovative features that showcase your skills.

Provide clear explanations and documentation for the added features in your README.md.

Deliverable

- A public Git repository containing the PHP To-Do List application.
- Organized and meaningful commits that demonstrate your development process.
- A README.md file with detailed setup instructions and explanations.
- Optional Docker configuration (if applicable).

Evaluation Criteria

Candidates will be evaluated based on:

- Code quality and organization.
- Database schema design.
- User interface design.
- Proper usage of PHP for CRUD operations.
- Completeness of the README.md file.
- Use of Docker (if applicable).
- Integration with WordPress (if applicable).

This challenge aims to assess your PHP skills, database management, and ability to create a functional web application. Good luck, and happy coding!