

SE Intern Interview Project Question

Part 1: Clean the unclean code

- **Task:** Refactor the provided messy PHP code to be clean, readable, and maintainable. Focus on naming conventions, simplified logic, formatting, and adherence to SOLID principles.
- **Deliverables:** Refactored code with a brief explanation of your changes.

Part 2: SDLC coverage for a given requirement

- **Task:** Design and implement a Library Management System using Laravel.
- **Deliverables:**
 1. Define functional and non-functional requirements.
 2. Provide architecture diagrams, an ER diagram, and a use case diagram.
 3. Include a normalized database schema.
 4. Implementation (Adhere to MVC, OOP principles, and use design patterns as much as possible)
 5. Submit a manual testing report to ensure functionality.

Part 3: Knowledge about API

- **Task:** Build a RESTful API in Laravel or pure PHP for managing books.
- **Deliverables:** CRUD endpoints for books, with validation, error handling, API authentication, and the documentation.

Submission Instructions:

1. Set up a new GitHub repository for your project.
2. Push your code and documentation to the repository.
3. Submit the GitHub repository link as your final submission.

Notes:

1. You can use XAMPP as the local server.
2. Using templates is strictly prohibited.
3. Follow coding standards

Deadline: 11:59 PM on 29/08/2024.