**Assignment:** Laravel Module for Homework/Assignment Management

Introduction: In this assignment, you will be developing a Laravel module for managing homework and assignments. The module will include features such as assignment type, class, section, subject, assign date, submission date, marks, attached documents, description, assigned by, and status. Your task is to design and implement this module using Laravel's framework and best coding practices.

Requirements:

1. Assignment Model:
   * Create a database migration for the "assignments" table with the required fields mentioned in the introduction.
   * Implement the necessary Eloquent relationships in the Assignment model.
   * Define any additional methods or attributes that may be required for the model.
2. Assignment Management:
   * Create a web interface for managing assignments, including functionalities for creating, viewing, updating, and deleting assignments.
   * Implement validation for the assignment form fields to ensure data integrity.
   * Display a list of assignments with relevant details such as type, class, subject, assign date, submission date, marks, assigned by, and status.
   * Allow sorting and filtering of assignments based on different criteria, such as class, subject, or status.
3. Document Attachment:
   * Implement functionality to allow users to attach documents/files to assignments.
   * Provide a user-friendly interface for uploading and downloading attached documents.
   * Ensure that appropriate file validation and handling are in place to prevent security risks.
4. Assignment Status:
   * Include a feature to track the status of assignments, indicating whether they are pending, completed, or overdue.
   * Implement logic to automatically update the status based on the current date and the submission date.
5. Security:
   * Implement authentication and authorization mechanisms to ensure that only authorized users can access and manage assignments.
   * Apply appropriate validation and sanitization techniques to prevent data vulnerabilities, such as cross-site scripting (XSS) attacks or SQL injections.
6. Testing:
   * Write unit tests to ensure the correct functioning of the assignment module.
   * Test different scenarios, including creating assignments, updating statuses, attaching documents, and filtering assignments.
   * Aim for comprehensive test coverage to minimize potential bugs and errors.

Deliverables:

1. Laravel project folder containing all the necessary files and folders.
2. Documented source code with appropriate comments and explanations.
3. Instructions on how to set up and run the project locally.
4. A short report summarising the implementation process, challenges faced, and future enhancements.

Evaluation Criteria:

1. Correctness and completeness of the implemented module.
2. Adherence to Laravel's best practices and coding standards.
3. User-friendly interface and efficient workflow.
4. Proper handling of data validation and security measures.
5. Quality and coverage of unit tests.
6. Overall code organisation, readability, and maintainability.

Note: Feel free to make reasonable assumptions where necessary, and document them in your code or report.

Submission Guidelines: Submit the assignment as a compressed file (e.g., .zip or .tar.gz) containing the project folder, source code, and documentation. Ensure that all dependencies are included, or provide clear instructions for installing them separately.