

Assignment

Task Management System

In this assignment, you will build a robust Task Management System using JavaScript and the Document Object Model (DOM). The system will leverage JavaScript classes to model task data, incorporating Getters and Setters to ensure proper validation of user input.

Requirements:

1. Create a Task Class:

- Implement a JavaScript class named `Task` with properties for the task's title, description, and due date. Include proper getters and setters to ensure data validation.
- These Validations are required
 1. Each Task Must have a title and description
 2. The due date of task must be greater than the current date.

2. Manage an Array of Tasks:

- Create an array to store Task objects.
- Implement methods to add tasks to the array and retrieve the list of tasks.

3. Implement a Form:

- Create an HTML form with input fields for task title, description, and due date.
- Include a button to submit the form.

4. Add Functionality:

- Write JavaScript code to handle form submission.
- When the user submits the form, create a new `Task` object with the entered details.
- Add the new task to the array of tasks.

5. Display Tasks:

- Implement a function to display the list of tasks on the webpage. You need to show task in the form of cards displaying title description and due date on the card.
- Update the display whenever a new task is added.

6. Data Validation:

- Ensure proper validation for the task's title, description, and due date. Display error in an alert box if the entered data is invalid.

Summary:

In this assignment, you are tasked with creating a Task Management System using JavaScript and the DOM. The system involves creating a `Task` class with proper validation using getter and setters from classes, managing an array of tasks, implementing a form for users to add tasks, and displaying the list of tasks.