

Intern - JavaScript Exercises

Task 1: Implement a Countdown Timer

Instructions:

- Create an HTML page with:
 - A date and time picker is input for the user to select the target date and time.
 - A button to start the countdown.
 - A display area to show the remaining time until the target date and time.

Requirements:

1. Functionality:

- The user should be able to:
 1. Select a future date and time.
 2. Start the countdown by clicking the "Start Timer" button.
 3. View the remaining time until the selected date and time in a readable format (e.g., days, hours, minutes, seconds).
- The countdown should be running and updated every second.
- Use JavaScript to handle the countdown logic.

2. Data Persistence:

- Store the selected date and time in a cookie when the user starts the countdown.
- On page load, retrieve the date and time from the cookie and initialize the countdown based on this value.
- Ensure that the countdown continues correctly even if the page is refreshed.

3. Completion Message:

- When the countdown reaches zero, display a message saying "Time's up!"

Task 2: Build a Simple Form with Validation

Instructions:

- Create an HTML form with the following fields:
 - Name (text)
 - Email (email)
 - Age (number)
 - Gender (dropdown)
 - Submit button

Requirements:

1. Form Functionality:

- Use JavaScript to validate the form:
 1. All fields are required.
 2. The email must be in a valid email format.
 3. Age must be a number greater than 18.
- Display appropriate error messages below the fields if validation fails.
- Prevent the submission of the form until all validation rules are met.

2. Data Persistence:

- When the form is successfully submitted, store the form data in `localStorage`.

Task 3: Create a Simple To-Do List Application

Instructions:

- Create a basic HTML page with:
 - An input field for entering tasks.
 - A date picker input for setting the due date.
 - A button to add tasks to the list.
 - A list to display tasks with options to mark them as complete or delete them.

Requirements:

1. Functionality:

- The user should be able to:
 1. Enter a task and set a due date.
 2. Add the task to the list.
 3. Mark tasks as complete by clicking a "Complete" button next to each task.
 4. Remove tasks from the list by clicking a "Delete" button.
 5. Show confirmation dialogue when we click on Delete and Complete.
- Use JavaScript to handle the functionality for adding, marking, and deleting tasks.

2. Data Persistence:

- Store the tasks in `localStorage` so that the tasks persist even when the page is refreshed.
- On page load, retrieve the tasks from `localStorage` and display them in the list.

3. Visual Indicators:

- Completed tasks should visually change (e.g., strikethrough text).
- Tasks that have passed their due date and not completed should be displayed in red.

4. Input Validation:

- Prevent adding tasks if the input field or due date is empty. Show a message or indication if either is missing.

Tasks	Due date	Action
ABC	19/09/2024	Delete
ABC 1	19/09/2024	Completed Delete

ABC 3

Add new Task:

Title:

Due Date:

ADD