

Practical No. 4

Advanced Assignment on Java Script and DOM

Perform following problem statements for DOM using Javascript

Problem Statement 1: Stopwatch Application

Create a simple stopwatch with Start, Stop, and Reset buttons.

Requirements:

- The Start button starts the timer.
- The Stop button pauses the timer.
- The Reset button resets the timer to zero.
- The timer should update every second when running.
- Pressing Stop should pause the timer without resetting it.
- Pressing Reset should stop the timer and reset it to "00:00".

Problem 2: Image Carousel

Build an image slider that cycles through multiple images.

Requirements:

- Include Next and Previous buttons to navigate between images.
- Automatically change images every 3 seconds.
- Add navigation dots below the images to indicate the current position.
- Clicking Next or Previous should change the displayed image.
- The slider should automatically move to the next image every 3 seconds.
- Clicking a navigation dot should move to the corresponding image.

Problem 3: Form Validation

Design a user registration form with the following fields:

- Name (at least 3 characters)
- Email (must contain "@" and ".")
- Password (at least 6 characters)
- Confirm Password (must match Password)
- Submit Button
- Show error messages if inputs are invalid.
- Prevent submission if any validation fails.
- Show a success message if the form is correctly filled out.

Problem 4: To-Do List with Local Storage

Create a to-do list where users can add, remove, and mark tasks as completed.

- Use localStorage to save the tasks so that they persist even after refreshing the page.
- Add a "Clear All" button to remove all tasks.

- Users should be able to add tasks, which appear dynamically on the page.
- Clicking a task should mark it as completed (strikethrough).
- The list should remain even after reloading the page.

Problem 5: Drag and Drop File Uploader

Create a file uploader where users can drag and drop files into a designated area. The file types it will take will be only .pdf, .doc/docx, jpg/jpeg

- Highlight the drop area when a file is dragged over it.
- Show a preview of the uploaded file (if it's an image).
- Allow users to remove the uploaded file before submission.
- Users can either drag & drop or click to select a file.
- Display a preview if an image is uploaded.
- Clicking Remove should clear the uploaded file.
- If the file is not in the allowed format, show an error message.

Note:

1. Create a **document** of the above website with screenshots.
2. Scan the document and **create a pdf file** with "**ExamSeatNum_P#PS#**" as its **name**.
3. Upload the zip file on the **ERP** before the given deadline.