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## **Practical 09 – Final Task**

### **Aim**

Implement a **Personalized Dashboard** that uses both localStorage and sessionStorage to remember user settings and temporary state.

### **Scenario**

You are creating a **“Personal Dashboard”** that remembers a user’s:

* **Name** (persistent)
* **Theme** (light/dark)
* **Font size** (small/medium/large)
* **Temporary visit count** (session-only)
* **Feedback message draft** (session-only)

However, the following starter code was written by a *developer intern* who made several mistakes and inconsistencies. Your job is to debug and complete the project **without rewriting everything** — only fix where necessary.

### **Starter Code (with random issues and misleading hints)**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Personal Dashboard</title>

<style>

body {

font-family: Verdana, sans-serif;

transition: all 0.4s ease;

text-align: center;

padding: 20px;

}

.dark { background-color: #121212; color: white; }

.light { background-color: #ffffff; color: black; }

#controls button, select {

margin: 6px;

padding: 8px 14px;

border: none;

border-radius: 5px;

cursor: pointer;

}

</style>

</head>

<body>

<h1 id="welcomeText">Welcome!</h1>

<div id="controls">

<input type="text" id="userName" placeholder="Enter your name">

<button id="saveUser">Save Name</button>

<button id="themeBtn">Switch Theme</button>

<select id="fontChooser">

<option value="small">Small</option>

<option value="medium">Medium</option>

<option value="large">Large</option>

</select>

</div>

<p id="tabCounter"></p>

<h3>Feedback</h3>

<textarea id="feedback" rows="5" cols="40" placeholder="Your feedback..."></textarea>

<script>

// --- Theme Setup (??)

let themeNow = localStorage.getItem("ThemeMode");

if (themeNow == undefined) {

themeNow = "Dark"; // default?

}

document.body.classList.add(themeNow.toLowerCase());

document.getElementById("themeBtn").onclick = function() {

// The intern thinks this toggles theme correctly...

let t = document.body.classList.contains("light") ? "dark" : "light";

document.body.classList = t;

localStorage.setItem("theme", t); // same key used elsewhere?

};

// --- Font size (has one wrong reference)

const fSelect = document.getElementById("fontChooser");

fSelect.onchange = function() {

let f = fSelect.value;

document.body.style.fontSize = f;

localStorage.setItem("fontsizePref", f);

};

let storedFont = localStorage.getItem("fontSizePref"); // note the capital S :)

if (storedFont) {

document.body.style.fontSize = storedFont;

fSelect.value = storedFont;

}

// --- Username (one line incorrect)

document.getElementById("saveUser").onclick = function() {

let user = document.getElementById("userName").value;

localStorage.name = user; // hmm...

document.getElementById("welcomeText").innerText = "Welcome, " + localStorage.getItem("username");

};

// should also auto-show saved user, but missing logic

// --- Session Counter (needs debugging)

let count = sessionStorage.getItem("visits") ?? 1;

sessionStorage.setItem("visits", count++);

document.getElementById("tabCounter").innerHTML =

`This tab has been refreshed ${count} times.`;

// --- Feedback (autosave works, restore missing)

const fb = document.getElementById("feedback");

fb.addEventListener("keyup", () => {

sessionStorage.setItem("feedbackText", fb.innerHTML);

});

</script>

</body>

</html>

#### **Task 1 – Fix Theme Storage**

* There are **two different key names** used for theme in localStorage (ThemeMode and theme).
* Identify which one to keep and make the logic consistent.
* Ensure the theme defaults to *light*, not dark.
* The theme must persist across reloads.

*Hint:* classList assignment line is wrong — look at .classList = t;.

#### **Task 2 – Repair Font Size Logic**

* The dropdown saves font size but fails to load properly.
* The bug involves capitalization in the storage key and possibly the unit (“small” ≠ “smallpx”).
* Font size should visually change and persist.

*Hint:* compare "fontsizePref" vs "fontSizePref" carefully.

#### **Task 3 – Username Greeting**

* The intern mixed localStorage.name with localStorage.getItem("username").
* Fix it so it saves and retrieves properly.
* Show the username automatically on reload.

*Hint:* use one consistent key, not both.

#### **Task 4 – Session Counter**

* The logic with count++ and the placement of setItem is wrong.
* Fix it so each reload increases the counter by 1.
* Reset only when the tab is closed.

*Hint:* increment *after* converting the value to a number.

#### **Task 5 – Feedback Restoration**

* The app stores feedback incorrectly (innerHTML instead of value).
* Add the missing “load saved feedback” logic on startup.
* Verify that feedback persists only within the same tab.

*Hint:* textarea.value not innerHTML.

#### **Final Task**

Add a **“Reset Preferences”** button that:

1. Clears all persistent storage (but not session storage).
2. Reloads the page.

### **What You Should Observe**

| **Feature** | **Storage Type** | **Persists After Reload?** | **Persists After Closing Tab?** |
| --- | --- | --- | --- |
| Theme | localStorage | Yes | Yes |
| Font Size | localStorage | Yes | Yes |
| Username | localStorage | Yes | Yes |
| Feedback Text | sessionStorage | Yes | No |
| Reload Counter | sessionStorage | Yes | No |

Write Issues, Mistakes, Wrong Hint with justification you have observed and any other issue found/