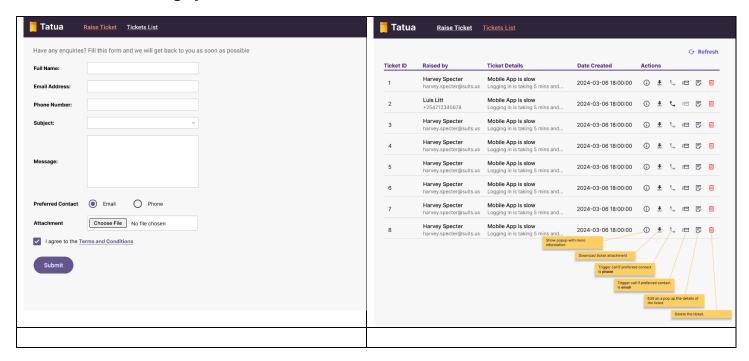
Task 7: Tatua: Ticketing System



Project Overview

Create a web application that allows users to:

- 1. Raise a ticket via the form shown in the image above
- 2. View all submissions in the data table format shown above
- 3. Persist data between browser sessions

Create a Github repo called tatua-ticketing-app

Concepts

- 1. JavaScript Data Types: Objects, Arrays
- 2. Form Elements
- 3. Tables and Buttons
- 4. Storage & Data Persistence
 - a. In Memory
 - b. Session Storage
 - c. Local Storage

Development Process

Create a branch named part1-memory-storage

After initializing the repository, create a branch named *part1-memory-storage* from *main* to implement the in-memory version of your application:

- 1. Create the exact HTML form shown in the screenshot
- 2. Implement form styling to match the visual design
- 3. Add client-side validation for all fields
- 4. Handle form submission events
- 5. Create the data table structure shown in the screenshot
- 6. Implement JavaScript to store form submissions as objects in an array
- 7. Render submitted data in the table
- 8. Add delete functionality for entries

Once the in-memory version is implemented and tested, merge the *part1-memory-storage* branch into *main*.

Create a branch named part2-session-storage

After merging the first phase, create a branch named *part2-session-storage* from your updated *main* to implement session-based persistence:

- 1. Modify your application to store submission data in sessionStorage
- 2. Implement logic to load saved data when the page loads
- 3. Ensure delete operations update both the display and sessionStorage
- 4. Test that data persists between page refreshes but is cleared when the browser session ends

Once the sessionStorage implementation is complete and tested, merge the *part2-session-storage* branch into *main*.

Create a branch named part3-local-storage

After merging the second phase, create a branch named *part3-local-storage* from your updated *main* to implement permanent persistence:

- 1. Modify your application to store submission data in localStorage
- 2. Implement logic to load saved data when the page loads
- 3. Ensure delete operations update both the display and localStorage

Once the localStorage implementation is complete and tested, merge the *part3-local-storage* branch into *main*.

Technical Requirements

- Use semantic HTML5 elements for the form structure
- Match the exact visual layout from the screenshot
- Use proper JavaScript objects and arrays for data management
- Implement form validation with user feedback
- Create clean, well-documented code with appropriate comments

Deliverables

- 1. A repository with all three branches showing your development process
- 2. A working contact form application with in-memory, sessionStorage, and localStorage implementations
- 3. A brief README

This project will demonstrate your ability to use Git for feature-based development while implementing a complete web application that handles form data and different types of browser storage mechanisms.