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Subject: full stack technology

Abstract: Attendance Tracker System

1. Introduction

The **Attendance Tracker System** is a web-based application designed to help students and educators efficiently monitor and manage attendance records. It provides an easy-to-use interface for tracking attendance status across multiple subjects, offering a more organized and digital alternative to manual tracking methods.

2. Objectives

The primary goal of this system is to simplify the process of attendance management by allowing users to:

- **Add subjects** and define the total number of periods.

- **Mark attendance** using different statuses: Present, Absent, Cancelled, Medical Leave, and On-Duty Leave.

- **Calculate attendance percentage** dynamically and alert users when attendance falls below the required level.

3. Features

✓ **Real-time attendance tracking** for multiple subjects.
✓ **Automated percentage calculation** and shortage alerts.
✓ **Custom attendance status options** (Medical certification).

✓ **Custom attendance status options** (on-duty).
✓ **Interactive UI** with dynamic table updates.
✓ **Responsive design** with smooth animations for an enhanced user experience.

Additionally, a **search feature** has been implemented to allow users to quickly find specific subjects from the list, improving accessibility and ease of use.
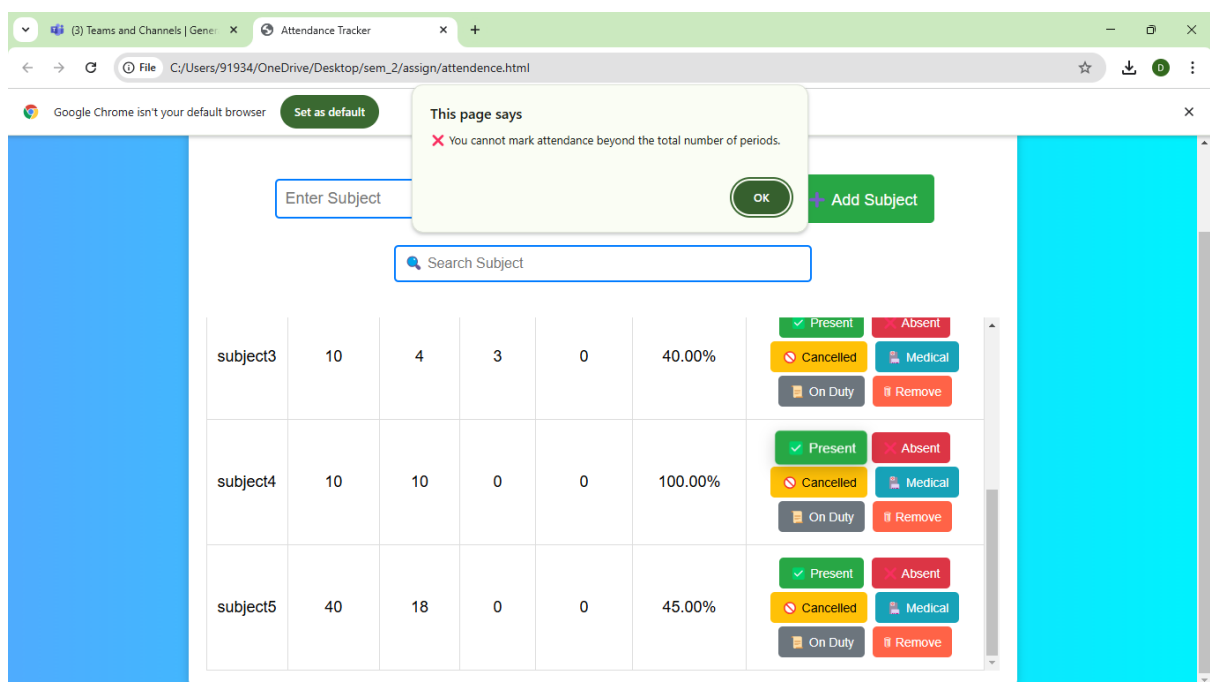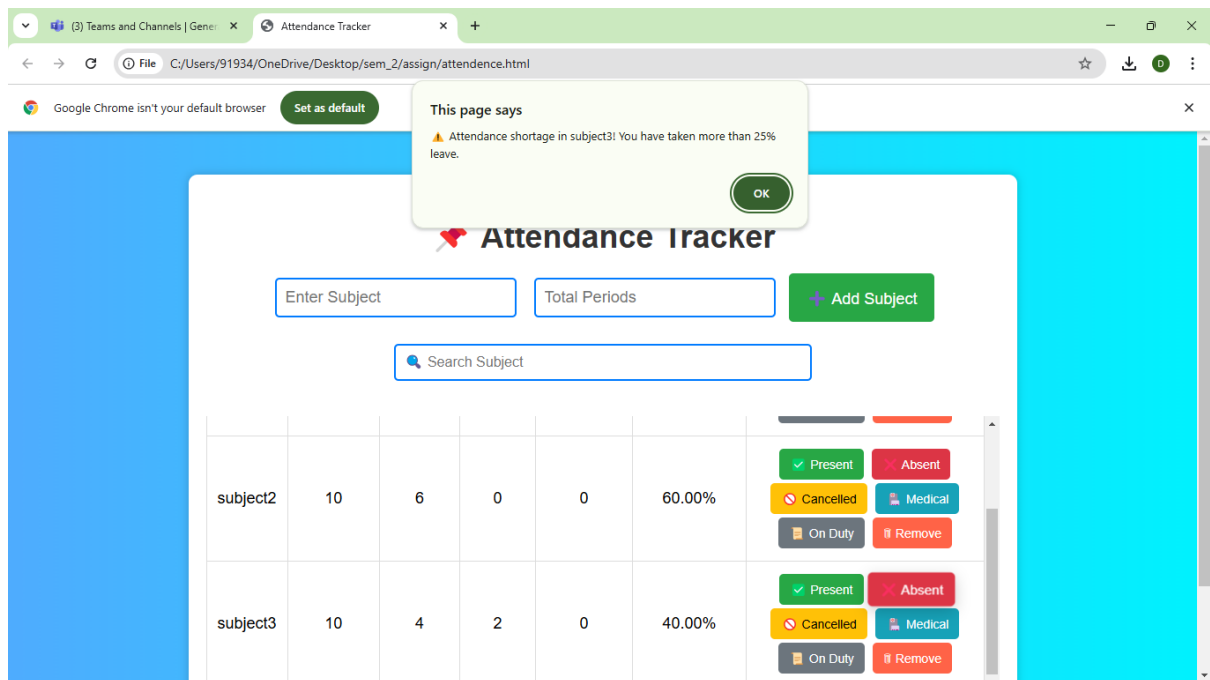
4. Technologies Used

The system is built using:

- **HTML** – Structure of the webpage.

- **CSS** – Styling and responsive design.

- **JavaScript** – Dynamic interactions and functionality.

5. Conclusion

The **Attendance Tracker System** offers a modern and efficient way to manage attendance records for students and teachers. It eliminates the need for manual calculations, reducing errors and improving record-keeping efficiency. With its **user-friendly interface and automated tracking**, this system provides a simple yet powerful solution for attendance management.

6. Output

📌 Attendance Tracker

| Enter Subject | Total Periods | ➕ Add Subject |

subject3

Subject	Total Periods	Present	Absent	Cancelled	Attendance %	Actions
subject3	10	4	3	0	40.00%	✔ Present ✖ Absent ⊘ Cancelled 🏥 Medical 📋 On Duty 🗑 Remove