Personal Webpage and Simple Calculator

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1. Introduction

This report highlights two projects: a **personal webpage** and a **simple calculator**. The personal webpage project aims to showcase basic HTML skills by creating a static profile page, while the simple calculator project demonstrates fundamental JavaScript skills by developing a functional calculator for basic arithmetic operations.

2. Objectives

- **Personal Webpage**: To create a simple HTML-based profile page including a photo, bio, and social media links.
- **Simple Calculator**: To develop a basic calculator that performs arithmetic operations like addition, subtraction, multiplication, and division using JavaScript.

3. Technologies Used

- **HTML**: The foundation for both the personal webpage and the calculator interface.
- **CSS**: (if any) for styling the calculator.
- **JavaScript**: Used for implementing the logic of the calculator.

4. Easy-Level Project: Personal Webpage

Description

The personal webpage is a static page built entirely using HTML. It includes my profile picture, a brief bio about me, and links to my LeetCode, GeeksforGeeks, and LinkedIn profiles.

Features

- Profile picture.
- Bio section describing my background.
- Social media links to professional platforms (LeetCode, GeeksforGeeks, LinkedIn).

Code Overview

The project's code consists of basic HTML elements such as <img> tags for the profile picture, <p> for the bio, and <a> tags for the social media links. The page is kept simple and minimalistic, focusing on the structure rather than advanced design elements.

5. Medium-Level Project: Simple Calculator

Description

The simple calculator is designed to perform basic arithmetic operations (addition, subtraction, multiplication, and division). It takes input from the user and displays the result based on the operation selected.

Features

- Supports addition, subtraction, multiplication, and division.
- Real-time result display after clicking the operation buttons.

Code Overview

The calculator is implemented using **JavaScript** to handle user inputs and operations. The key JavaScript components include:

- Event listeners to capture button clicks.
- Functions to perform the arithmetic calculations.
- Display functionality to show the result on the screen.

6. Challenges Faced

While creating the projects, I encountered a few challenges:

- Implementing the logic for the calculator required understanding JavaScript event handling and DOM manipulation.
- The process of structuring the personal webpage with proper links and images was straightforward, but ensuring everything worked properly on different devices required attention to detail.

7. Conclusion

These projects have significantly enhanced my understanding of HTML and JavaScript. Building the personal webpage improved my grasp of basic web structure, while the calculator project helped solidify my knowledge of JavaScript and problem-solving skills.