QR Code Generator

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Overview

Your task is to create a QR code generator using HTML, CSS, and JavaScript. The generator should allow users to input a message or URL and generate a QR code representing that input.

Instructions

1. HTML Structure

Create the basic HTML structure of the calculator. Use appropriate HTML tags to define the different sections, such as the display area, buttons, and other elements.

2. CSS Styling

Apply CSS styling to make the calculator visually appealing. Design the layout, colors, and typography as per your preference. Use CSS classes and IDs to target specific elements for styling.

3. JavaScript Functionality

Responsive Design: The QR code generator maintains a responsive design, adapting well to various screen sizes while keeping the QR code centered.

Technical Guidelines:

1. Use HTML to structure the page and define the necessary elements.

2. Use CSS to style the page, including the input field, button, and QR code display area.

3. Use JavaScript to handle user interactions, generate the QR code, and update the display.

4. You can make use of existing libraries or APIs for generating QR codes, such as the `qrcode.js`

library or any other preferred library.

5. Ensure your code follows best practices, including proper indentation, commenting, and

meaningful variable names.

6. Include error handling to handle invalid inputs or other exceptional cases.