# .Project Report: Financial Portfolio Pie Chart Website (Investment Version)

#### 1. Introduction

This Financial Portfolio Pie Chart Website is a simple interactive web tool designed to help users visually understand how their funds are distributed across four different account types: Wallet, Bank, Investment, and Crypto/Stocks. Users enter the amount they hold in each category, and the website instantly calculates and shows a color-coded pie chart representing the proportions of their total portfolio.

The project is built using HTML, CSS, and a small piece of inline JavaScript for live calculation and display updates—without needing any external libraries or backend.

### 2. Features Summary

- User Inputs: Four numeric fields accept the amounts for Wallet, Bank, Investment, and Crypto/Stocks.
- Live Pie Chart: The pie chart updates instantly as the user enters or changes values, using CSS conic-gradient to visually represent proportions.
- Colour Coding: Each account type is represented by a distinct colour in the pie chart and a legend.
- Responsive and Simple Design: Clean layout with intuitive input and clear legends for easy understanding.

### 3. Important Code Explanation

# A. HTML Structure

- The webpage contains a .container div that centers and styles the content.
- A form with four <input type="number"> fields collects amounts for each financial category.
- A <div class="pie-chart"> displays the pie chart.
- A .legend section links each colour with its account.

# **B. CSS Styling Highlights**

- The pie chart is a circle created by setting border-radius: 50%.
- The pie chart background is a CSS custom property named --chart, initially set to a gray conic-gradient.
- Colour classes .color1 to .color4 define the colours for each segment and legend box:

• Wallet: Red (#f94144)

• Bank: Blue (#277da1)

• Investment: Orange (#f3722c)

- Crypto/Stocks: Green (#90be6d)
- The layout uses grid and flexbox for neat input alignment and legend display.

# C. JavaScript (Inline in oninput)

The dynamic pie chart update logic is in the form's oninput attribute:

```
javascript
let w = +wallet.value;
let b = +bank.value;
let r = +investment.value;
let c = +crypto.value;
let total = w + b + r + c;
if (total === 0) total = 1;
let p1 = (w / total) * 100;
let p2 = p1 + (b / total) * 100;
let p3 = p2 + (r / total) * 100;
document.querySelector('.pie-chart').style.setProperty('--chart',
 `conic-gradient(
  #f94144 0% ${p1}%,
  #277da1 ${p1}% ${p2}%,
  #f3722c ${p2}% ${p3}%,
  #90be6d ${p3}% 100%
 )`
);
```

- The variables w, b, r, c hold the numeric input values for Wallet, Bank, Investment, and Crypto.
- total sums the four amounts, with a fallback to 1 to prevent division by zero.
- p1, p2, and p3 are cumulative percentage cutoffs for pie segments.
- The CSS custom property --chart is updated with a conic-gradient specifying each segment's start and end percentages with the assigned colors.
- This redraws the pie chart dynamically to reflect the current data.

### 4. User Instructions

Enter your amounts for Wallet, Bank, Investment, and Crypto/Stocks in the input fields.

- The pie chart will immediately update to show the relative share of each category.
- Use the color-coded legend below the chart to identify each segment.
- The "Update Pie (Static)" button is non-functional (returns false) because updates happen live on input.

# 5. Advantages

- Real-time feedback without page reloads or button clicks.
- No external dependencies or libraries needed.
- Clean, modern, and accessible design.
- Demonstrates effective use of CSS gradients and JavaScript integration.

#### 6. Limitations and Future Enhancements

- Does not save data between sessions.
- Limited to four predefined account types; can be expanded.
- Could add percentage labels or tooltips on the pie chart.
- Export, printing, or detailed report generation could be added.
- More robust validation and accessibility improvements can be integrated.

# 7. Conclusion

This webpage project effectively visualizes financial data with minimal code and no dependencies. It's perfect for learning or simple personal budgeting, showing how modern CSS features like conicgradient combined with JavaScript can create interactive, informative visualizations.