Dashboard Interface Documentation

Introduction

Welcome to our comprehensive dashboard interface, crafted with a combination of HTML, CSS, and JavaScript technologies. This dashboard is designed to provide users with a rich and interactive experience, featuring various data visualisation tools like bar charts and donut charts.

Fonts Usage

I have used Sofia Pro Font Face as XD. Since I couldn't get the Sophia Pro font for free, so I have sourced these fonts through a Content Delivery Network (CDN).

File Optimizations

I focus on creating low-code applications that excel in both performance and memory management for optimal productivity.

Chart Creation

Data visualisation is a main aspect of our dashboard's functionality. To show data in charts on our dashboard, I've used the Chart.js JavaScript library.

Custom Components

I have adopted various techniques to ensure that our custom components are both functional and elegant:

Data Attributes - The data attributes serve as convenient containers for data values associated with specific elements, facilitating smoother data handling and manipulation.

ARIA Attributes - The attributes enhance accessibility and semantics within our HTML code, ensuring that users with disabilities can access and navigate our dashboard with ease.

Code Efficiency - Efficient code is not only more manageable but also more performant. To maintain code efficiency, we've adopted several best practices:

- **Better Commenting** - I have meticulously documented our code to provide clarity for future developers and maintainers.

- **CSS Minification** - I have minimised the size of our CSS files by removing redundant characters and whitespace, resulting in faster loading times.

- **CSS Specificity** - My CSS styles are designed to be specific and targeted, reducing the likelihood of unintended styling conflicts.

- **HTML Validation** - I have validated my HTML code to ensure compliance with established web standards, resulting in a more stable and reliable dashboard.

Post-Production Optimization

I prioritise efficiency, not only during the initial coding phase but also in post-production. My goal is to make maximum impact with minimal code.

Responsive Design

Media queries are logically structured to ensure that our dashboard is responsive across various screen sizes and devices.

Custom Icon Library

I have used Custom Icon Library in this dashboard project, for this I convert SVGs into icon font using Icomoon platform. I have considered several critical characteristics to use Icon Library:

- **Scalability** - Our icons are created in a vector format, similar to SVGs, allowing them to be scaled without any loss of quality.

- **Colour** - Icon fonts typically use a monochromatic style. However, we've designed them to be customizable through CSS styles.

- **Font Format** - Our custom icon library is available in font formats like TrueType Font (TTF) and Web Open Font Format (WOFF). These formats are widely supported by modern web browsers.

- **Naming Conventions** - Icon fonts have specific names for each symbol, making it easier for developers to use them in CSS.

Additionals

I've converted the files to PHP for the purpose of utilising a shared header and sidebar.

Challenges

The journey to create this comprehensive dashboard interface wasn't without its challenges. Mainly i have faced below challenges during dashboard designing -

- **Implementation of Fonts** - This challenge relates to font usage. Finding and implementing the right fonts for the project, especially if they are not freely available, can be a hurdle.

- **Chart.js Customization** - Customizing Chart.js bar and donut charts to meet specific design or functionality needs was a bit complex and required additional effort.

Conslution

However, despite these obstacles, I have successfully crafted a versatile and high-performing dashboard that I believe will meet your needs and expectations.

Dashboard URL - https://dev.himanshiahir.com/sabpaisa/
GitHub Repo - https://github.com/HimanshiAhir/Sabpaisa-Dashboard