Approach Documentation : Number to Words Converter

This document describes the approach used to develop the number to word converter. It addresses why different approaches were not used and provides justification for the implementation strategy that was selected.

Problem Statement

Develop a web page featuring a web server routine that converts numerical input into words and passes these words as a string output parameter.

Reasons for Selected Approach: ASP.NET MVC with JavaScript

Being the developer on the project, my knowledge with ASP.NET MVC made the development process go much more quickly. By using server-side processing, it was possible to protect sensitive conversion logic from client-side disclosure and maintain its security. Furthermore, ASP.NET Core MVC combined JavaScript with ease, allowing dynamic user interaction without sacrificing speed.

ASP.NET Core MVC Controller:

Securely coordinates the conversion process and handles HTTP requests and guarantees effective server-side number to word conversion.

JavaScript Frontend:

Enhances user experience by enabling real-time conversion without page reloads and validates user input before initiating server requests.

Bootstrap for Styling:

It provides a responsive user interface and ensures consistent presentation across different devices and browsers.

Rejected Solutions

I chose not to use only pure JavaScript because doing so would expose our conversion process to code readers, thus posing a security risk. Furthermore, since the project is simple and I'm proficient in ASP.NET MVC, I didn't want to employ complicated client-only frameworks like React or Angular.