Number-to-Words Converter Application

Technical Document

# Minimum Requirements

This application is created in Microsoft .NET 4.5.1 using Visual Studio 2012. The minimum requirements to run this application are as follows:

## Operating System

Windows 7 (or later) must be installed.

## Code Editor / IDE

Visual Studio 2012 (or later) must be installed.

## .NET Framework Version

.NET Framework 4.5.1 must be installed.

## Browser

Application could be run on any browser supporting ES6, i.e. the latest version of Mozilla Firefox or Google Chrome.

# Software Architecture

The application is composed of following 2 projects:

1. **NumberToWordConvert** is the main project containing all the code files of the application.
2. **NumberToWordConvert.Tests** containing all the tests of the application.

The main project **NumberToWordConvert** is composed of the following layers:

## Application Layer

The application comprises of a HTML file index.html which is the starting point of the application. This html file serves as the **View** of the application, with the logic / code written in the **myscript.js** file (inside script folder) which acts as the **Controller** of the Application / Front-End Layer. This is accompanied by the **Site.css** file (inside **Content** folder).

## API Layer

**ConversionController** is the file containing the actual API logic in the form of a **Get** function. This acts as the WebAPI of the application.

## Service Layer

**NumberToWord.cs** is the file containing the single service for this application in the form of a public method **Convert** of class **MoneyToWords**. This service is responsible to convert a number (currency value) into words and return it to the API Layer.

The following classes are shared by multiple layers:

**NameAndMoney** (inside NameAndMoney.cs)