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#                    Subtitle Splitter                           #
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Author               :    Yogananda Rao Locherla
Technology Stack     :    ASP.NET MVC4, AngularJs 1.6, C# 4.5
Unit Testing         :    NUnit3, Moq
Other Testing Tools  :    PostMAN (Web API testing)
Development Method    :    TDD - Test Driven Development
Project Solution     :    SubtitleSplitter
Number of Projects   :    4 Projects

                          1. Unit testing Project (Name - SubtitleSplitter.Tests)
                          2. Class Library (Name - SubtitleSplitterManager)
                          3. Console Application (Name - SubtitleSplitter)
                          4. Web Application [ASP.NET MVC, Web API, AngularJs] (Name - SubtitleSplitter.Web)
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1. Unit testing Project (Name - SubtitleSplitter.Tests)

   This module is for Unit testing the logic written for the features in SubtitleSplitterManager
   Nuget packages used - NUnit 3.x and Moq
   Moq pacakges are used to wireup the Setup and Teardown features to create and nullify the common   ↙
   objects.
   It has 14 test cases validated for various scenarios

2. Class Library (Name - SubtitleSplitterManager)

   This module has encapsulated with whole logic needed for Subtitle Splitter project.
   It has main class named "StringManipulations" which implements IStringSplitRules, IBeautifier
        IBeautifier --> Interface

            -> Contains Beautify() abstract function, which is intended to beautify the input string.
            -> In this example, removee unnecessary white spaces in it. But we can extend as needed.

        IStringSplitRules --> Interface

            -> Contains ApplyStringSplitRules() abstract function, which is intended to apply rules   ↙
    mentioned in requirements.

        StringManipulations --> Class

            -> Implements IStringSplitRules, IBeautifier interfaces
            -> Regular Expressions are used to implement Beautify() method
            -> Followed "Red - Green - Refactor" process to improvise the code base

3. Console Application (Name - SubtitleSplitter)

   Client application to render the results in UI

4. Web Application (Name - SubtitleSplitter.Web)

   Another Client Application to render the results in UI
   Technology Stack - [ASP.NET MVC, Web API, C#, AngularJs, Bootstrap]

        ASP.NET MVC

            -> Model - Subtitle.cs
                    Having 2 properties
                        SubtitleText
                        FormattedSubtitleText

            -> View - Home --> Index.cshtml
                    It has following sctions
                        Subtitles input section in text area

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                    Button to perform ajax call to pull the subtitles
                    Splitted subtitles rendering in 3 styles..
                        1) Displaying the Current Subtitle
                        2) List all the subtitle line vise
                        3) HIGHLIGHTING the current text in YELLOW color.

            -> Controller - Used AngularJS for Controller part
                    Directory - ../Angular/app.js
                    Used following services to achieve the above functionality
                        $http
                        $scope
                        $timeout
                        $interval
                    The code written in AngularJS is compatible to minification

        Web API Controller
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            -> API Controller - SubtitleSplitterController.cs
                    "FormatAndParseTheMessage" is the Action method exposed with returns List of Subtitles



################################################################
#                  Subtitle Splitter                          #
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