

Subtitle Splitter

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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

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

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
- 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

 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

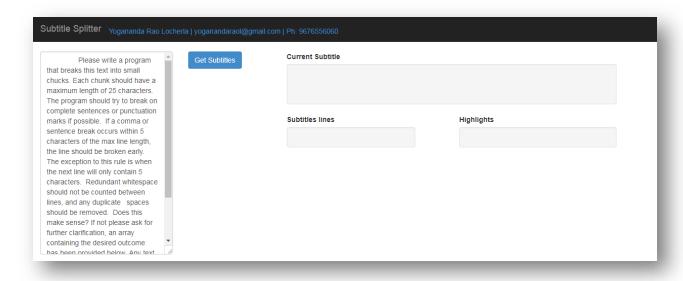
-> API Controller - SubtitleSplitterController.cs

"FormatAndParseTheMessage" is the Action method exposed with returns List of Subtitles

Subtitle Splitter #

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Web Output:



This screen default filled with sample text Subtitles provided in project.

Or Fill the text in textarea whatever you want to split.

Then click on Get Subtitles button. See the UI rendering as below

Current Subtitle

complete sentences or

Subtitles lines

Please write a program that breaks this text into small chucks.

Each chunk should have a maximum length of 25 characters. The program should try to break on complete sentences or punctuation marks if possible. If a comma or sentence break occurs within 5 characters of the max line length, the line should be broken early. The exception to

Highlights

Please write a program that breaks this text into small chucks. Each chunk should have a maximum length of 25 characters. The program should try to break on complete sentences or punctuation marks if possible. If a comma or sentence break occurs within 5 characters of the max line length, the line should be broken early. The exception to this rule is when the next line will only contain 5 characters, whitespace should not be counted between lines, any duplicate spaces should be removed. Does this make sense? If not please ask for further clarification, an containing the desired outcome has been provided below. Any text beyond this point is not part of the instructions, it's only here to ensure test converge. Finish line. Aaa asdf asdfjk las, asa.

The top most div shows the current subtitle

The first div (Subtitle Lines) in second row display all Subtitles in a single stretch with appropriate line breaks.

The second div (Highlights) in second row Highlights the current subtitle displayed in top most div.

Current Subtitle the max line length, Subtitles lines Highlights Please write a program Please write a program that breaks this text into small chucks. Each chunk should that breaks this text have a maximum length of 25 characters. into small chucks. The program should try to break on complete sentences or punctuation Each chunk should have a marks if possible. If a comma or sentence maximum length of 25 break occurs within 5 characters of the max line length, the line should be broken early. characters. The program The exception to this rule is when the next should try to break on line will only contain 5 characters, whitespace should not complete sentences or

Test Cases

Below is the test cases screenshot which validates in 14 situations.

