

Sorting as a Web Service

A WCF implementation

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Introduction

The Music Information and Song Retrieval Web Service has been realized using the Windows Communication Foundation (WCF) version .NET 4.5.

Path to Create a WCF project:

1. Open Visual Studio
2. Click File
3. Click New
4. Click Project
5. Select WCF Service Application from list of available projects for Visual C#
6. Give Name for Project Below

This is how you create the WCF project.

In the Solution Explorer in the right hand side of Visual Studio you will see the files generated for the project.

Technologies

There was no external API that was used in the process of building this web service.

Usage of Web Service

Sorting using Merge Sort

```
public string mergeSort(string input, String userKey)
```

Input Parameters :

input : The numbers to be sorted which are submitted by the user.

userKey : The key required to call the WebService

This Web Service call will return the sorted string of numbers which is being passed by the user.

Sorting using Selection Sort

```
public string selectionSort(string input, String userKey)
```

Input Parameters :

input : The numbers to be sorted which are submitted by the user.

userKey : The key required to call the Web Service

This Web Service call will return the sorted string of numbers which is being passed by the user.

Class Structure

IService1.cs

Contains the OperationContracts i.e. the definition of the possible set of operations that can be performed using this web service.

Service1.svc.cs

Contains the implantations of the OperationContracts i.e. the implementations of the possible set of operations that can be performed using this web service.