## **Section 1**

API: <http://sortingapi.azurewebsites.net/api/v1/sort>

The content type can either be xml or json depending on the clients “Accept” header.

*Feature: The api wont allow duplicate values and integers less than 1 and greter than 1000 in the post request. But it will display warning in the response status.*

|  |  |  |  |
| --- | --- | --- | --- |
| Request Type | Input | Output | Http Status Code |
| POST – Valid Request - JSON | [1,51,4] | {  "Status": "**Success**",  "result": null,  "Message": null  } | 200 |
| POST – Valid Request - XML | <ArrayOfint xmlns:i="http://www.w3.org/2001/  XMLSchema-instance" xmlns="http://schemas.microsoft.com/2003/  10/Serialization/Arrays">  <int>1</int>  <int>51</int>  <int>4</int>  </ArrayOfint> | <SortAPIResponse xmlns:i="  http://www.w3.org/2001/XMLSchema-instance"  xmlns="http://schemas.datacontract.org/2004/07/  SortingAPI.Controllers">  <Message i:nil="true"/>  <Status>**Success**</Status>  <result i:nil="true" xmlns:d2p1="http://schemas.microsoft.com/2003/10  /Serialization/Arrays"/>  </SortAPIResponse> | 200 |
| POST – Invalid Request | [1,1,51,4]  Or  [-1,1,51,4]  Or  [[1,51,4,1000] | {  "Status": "**Failed**",  "result": null,  "Message": "Your input collection duplicate values"  }  Or  {  "Status": "**Failed**",  "result": null,  "Message": "Your input collection contains integers greater than thousand or less than 1"  } | 400 |
| POST – Invalid Parameters | [“Hello”] | {"Message": "Please review your request again. Request should contain onlyintegers between 1 and 1000. Duplicate values not allowed"} | 400 |
| GET |  | {  "Status": "**Success**",  "result": [  1,  4,  51  ],  "Message": null  } | 200 |
| GET | Server error | An internal Error occurred!!. Please contact technical support | 500 |

## **Section 2**

To show case the extensibility of the API a modified version of api is available at

<http://sortingapi.azurewebsites.net/api/v2/sort>

*Feature: The api wll allow duplicate values in the post request. But it will display warning in the response status.*

|  |  |  |  |
| --- | --- | --- | --- |
| POST – Invalid Request | [1,1,51,4] | {  "Status": "**Warning**",  "result": null,  "Message": "Your sorted collection contains duplicate values"  } | 200 |