**Merge Sort in Mendix**

**Description**

**Merge sort** is defined as a sorting algorithm that works by dividing an array into smaller subarrays, sorting each subarray, and then merging the sorted subarrays back together to form the final sorted array.

In simple terms, we can say that the process of merge sort is to divide the array into two halves, sort each half, and then merge the sorted halves back together. This process is repeated until the entire array is sorted.

**Typical Usage Scenario**

We can use this sorting method for sorting the number list and get the result quickly because the time complexity of this method is better than the other sorting method.

**PreRequisites**

NA

**Features and Limitations**

**Microflow:-**

* I am using this **GetSortedList** microflow to get the sorted list.

**How to use this JavaAction:-**

* Firstly you need to pass your objects in Number entity and Store your integer attributes value in number entity attributes according to your datatype which is available in number entity then after getting list from java action you need to store in your object(entity) attributes.
* Depend on the sorting type you can use descending or ascending order in the java action. For achieve the type you need to pass Boolean value in the java action currently in java action we are using one Boolean attribute which give us sorting value. On false value it gives ascending list and on true it gives descending list.

**Limitations:-** Currently we are providing ascending order list only because code is written according to the order.

**Installation**

1. Download the package from marketplace.
2. Import the module package into your project.
3. Use this java action in the microflow whenever needed.

A diagram of a flowchart

Description automatically generated

**A screenshot of a computer

Description automatically generated**

**Updates:-**

* This java action can be further customized So you can copy the file and start updating with your custom logic.

**Configuration: NA**

**Category: Module**

**Subcategory: All**

**Visibility: Public Marketplace**

**Studio Pro Version: ?**