Software Developer Position

1. .NET [C#] Task

#### Description

Write a solution that will take as parameters:

* data as an IEnumerable<T>
* list of fields to group by
* list of fields to aggregate

And will return the grouped data as IEnumerable<T>. It’s up to you how to tell what fields to group on and what fields to aggregate with what function, so chose types for field list parameters as you see fit. When grouping, non-grouped/aggregated fields should be set to their type’s default value. Assume that the data are simple objects, but you can modify/superclass it.

Example data:

public class Data

{

public int Id { get; set; }

public string Name { get; set; }

public int Qty { get; set; }

public double Price { get; set; }

}

Example result might be an equivalent to SQL “select sum(Qty), avg(Price), Name from Data group by Name”.

For example, input list:

{1, ”AAA”, 10, 5}

{2, ”AAA”, 5, 6}

Output will be a list with one object:

{0, “AAA”, 15, 5.5}