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| .NET Craft  Assignment 3 |  |

The UCI Machine Learning Repository provides numerous datasets for free. For this assignment we will be using Online Retail dataset of a UK-based online retail and its available at <https://archive.ics.uci.edu/dataset/352/online+retail>

* For this assignment simply create console application, unit test project or use .NET Jupyter Notebook. There’s no need to create any Web / Dekstop UI
* Data should ideally be processed once

Data Preparation

* The dataset is in Excel file; you can convert it to CSV file and load into the program or you can import the data into some database of your choice and consume it from there

Data Processing

* Filter: We need to filter the data as it’s an online store there were buyers from different countries, but we are only interested in buyers from United Kingdom
* Map: The data has invoice date information; using .NET we can calculate the day of the week and month for each date
* Reduce: We are interested in couple of things listed below
  + Total Revenue from UK Customers
  + Monthly Sales from UK Customers
  + Day Wise Sales from UK Customers

Bonus / Stretch Goals

* Data Processing: Mean Spending from UK Customer (Buying Power) and Per Item Spending from UK Customer
* Try to write code using Functional Programming Principals and assess if you find them any useful in this assignment

# Submission

* The submission deadline is June 24st
* Create a Github repository and have your code there and share its URL in direct message. You can keep your repo private and make it public at/after deadline.