**TECHNICAL DOCUMENT SUMMARY**

**CUSTOMER DATA PROCESSOR**

**1.0.0**

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| Application Name | **Customer Data Processor** |
| App Version | **1.0.0** |
| Author | **MD. RAFIQUL ISLAM** |
| Document Type | **Technical Document Summary** |

**How IT Works**

The App,

* Loads customer data from text file. The text file is comma separated.
* Organizes all the data to get tabular format.
* Filters & removes duplicate records considering all fields of each record.
* Validates all the records considering phone number and email address.
* Uses problem statement provided phone number pattern i.e.:  
  555-555-5555, (555)555-5555, (555) 555-5555, 555 555 5555, 5555555555, 1 555 555 5555   
  to validate phone number.
* Uses combination of RFC 5322 Internet Message Standard and most popular email application like Gmail, Live and Outlook practiced email address pattern to validate the email address.
* Separate invalid data consider phone number and email address.
* Store valid and invalid data into 2 separate tables in a database.
* Export the valid and invalid data into 2 separate text files.
* Export the valid & invalid data into a batch of files including 10k records.
* Uses multiple threads to insert data into database and to export data into files.

**Notes**

* Most of the properties are configurable.
* Support multithreading to run faster.

**Configurable Properties**

* Database Connection string.
* Database table name for valid and invalid data.
* Data column list.
* Column index to be validated.
* Path of input & output files.
* Maximum records for each file of batch.
* Number of maximum threads to insert data.
* Thread counts measurement factor to export data.

**How to Configure before Run**

Open

**Configurable Properties & Settings Values**

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