GRSManager Program Design

**ProductRecordIO**

ProductRecordIO is an IO class for product data. Product data is contained in a text file according to the below format.

**Product Data Format**

Product data is read from, and written to, a text file. There are seven columns in the product text file which are comma-separated:

1. **Miscellaneous ID Number**: A TBD identification number supplied by research company.
2. **Part Number**: The product part number.
3. **Family Name**: A product exists with a family of products.
4. **Generation**: A product belongs to a specific release or generation.
5. **Description**: A description of the product
6. **List Price**: (USD) the price
7. **Notes**: Any notes specific to this item

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Misc ID number** | **Part-Number** | **Product Family** | **Product Generation** | **Product Description** | **List Price** | **Notes** |

If a data field is empty it contains the string “null”. Null values for primitive data types like “Misc ID Number” and “List Price” are set to 0. Values for String data fields will be assigned the String “no value”.

**OrderRecordIO**

OrderRecordIO is an IO class for order data.