API Module

Module specification format:

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| XYZ  *Overview:* explain the rationale and responsibility of XYZ |
| *Public interface*: here you will list interface operations documented as follows: |
| *Operation header*: returned-value operation-name (list of parameters with names and types)  *\*Parameters (optional):* unless it is not clear from the header, describe parameters  *Description:*  Describe the effects of the operation (what the operation does) in terms of parameters, returned value and whatever else you need to explain in order to explain the meaning of the operation; Normal behaviour of the operations is explained first before the abnormal behaviours are explained.(handled by assertions and exceptions) |

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| **Read Individual Field**  Module description: The module contains function which is needed 'to be read the components of a field from the BOTLAIDS file. The components that are specially taken care of are name required field, preloaded field data, field max size and field title. |
| Public Module: |
| **VOID Parse\_Field (fileStream As textstream);**  Description:  This function will read a whole field, and store all the relevant information into a field object. The function reads the field sequentially top-down. |
| **INTEGER Extract\_Number (rawLine As String)**  Description:  The function will extract the number in the string between the left and right delimiter. |
| **VOID Read\_Category\_Message (categoryCounter As Integer, fileStream As textstream, mapObject() As categoryMapping)**  Description:  This function will read the content inside a message category. The content are store inside an array of categoryMapping |

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| **Read Individual Segment**  Module description: The module contains functions which are needed to be read the components of a segment from the BOTLAIDS file. The components that are specially taken care of are namely segment name, required segment, and the fields inside a segment. |
| Public Module: |
| **VOID Parse\_Segment (fileStream As textstream)**  Description:  The function will read a whole segment from the BOTLAID text stream, and store all the relevant component of a segment into a segment object. The function read the segment in sequential top-down manner. |
| **VOID Parse\_Segment\_Header (numOfField As Integer, outputArray() As String, complusory As Boolean, name As String, fileStream As textstream)**  Description:  The function reads the header section of a segment and returns the relevant information after the function ends. |

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| **Read Individual BOTLAID**  Module description: The module contain functions which are needed to be read the components of a BOTLAID report file generate from the BOTLAID function in the batch manager. |
| Public Module |
| **VOID Parse\_BOTLAID (fileStream As textstream)**  Description:  The function will read the whole BOTLAID report file in a orderly top-down manner. The report generation information, classic transaction template and where write information of the BOTLAID report file are not captured in this function. |
| **CampaignObject Parse\_BOTL\_Header (fileStream As textstream)**  Description:  The function will read the header portion of the BOTLAID report, and store the relevant information into a campaign object. |
| **Parse\_Single\_message (rawLine As String, delimiter As String, code As String, description As String, Optional frontString As Variant)**  Description:  The function will read in the string which contains two information to be stored, separated by a delimiter. The function also contains an optional parameter (front string) to get rid of the unnecessary front string in the front. |
| **BOOLEAN Set\_Toggle\_By\_Statement (rawLine As String, stringPositive As String, Optional stringNegative As Variant)**  Description:  The function will read the string and return true/ false depending on the positive and negative template statements. |
| **AgeRange Find\_Age\_Range (rawLine As String)**  Description:  The function will read a string and return the minimum and maximum age range extracted in the string. |
| **Product() Parse\_Product\_Information (fileStream As textstream)**  Description:  The function will read a whole product in the header portion of BOTLAID report. All the relevant information will be stored as a product and return at the end of the function. |

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| Generate Templates  Module description: The module contains functions which is required to generate the template for a particular BOTLAID report selected from the user. |
| Public Module |
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