**Component: Business Services**

**Module Name: Translate**

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| Inputs | Process | Outputs |
| Language | Calls service broker with Service Code “TB” and passes along ParamList containing the Language and English Word.  If Translate is returned an error, it calls Service Broker again using Service Code “Error” and a ParamList containing the error code. | Translated word |
| English Word | Or error code |
|  |  |

**Inputs:**

**ParamList containing:**

Language - the language that the user wants to translate to.

English Word - a word that needs to be translated.

**Process Description**

Calls Service Broker with Service Code “TB” to indicate the need to call Text Broker and look up a word.

Passes ParamList which contains the Language and Word to be looked up by Text Broker.

Once it is returned to, if the returned Paramlist contains an error number (0 to indicate file not found, 1 to indicate word not found) it converts that error number to the correct error code, call Service Broker again with Service Code “Error” and pass ParamList.

**Outputs**

Translated Word

**Or Error Code**

**Pseudocode:**

**Inputs of language,English\_word**

**Splits that string into an array param**

**Param[0]=language**

**Param[1]=English word**

**File translate.txt has all of the language,language.txt in one file.**

**Scans through translate.txt until it finds the language, and set textfile = to the language.txt**

**If not found, then error 805,Language error, and call service broker to send to Error module**

**Else, Pass the params of (textfile,English\_word,TB) to Service broker to send to textbroker**

**Receive the translated word from text broker**

**Check to see if there was an error using isNumeric**

**If error, then go to error module**

**Else send back translated word to service broker**

**isNumeric is a method to check if the string contains a number.**