**Component: Utility Services**

**Module Name: Text Broker**

**Author: Mandy Lin**

**Reviewers: Mariam Topchyan, Even Pham, Gabrielle Cornelius, Tyler Benson**

| Inputs | Process | Outputs |
| --- | --- | --- |
| Value\_To\_Lookup | Textbroker looks up Value\_To\_Lookup in Text\_File.txt and returns the corresponding value. If “>=” is present in the input, Textbroker is not looking for an exact match, it is instead looking for the first flag that is >= to Value\_To\_Lookup. | Value associated with the flag it looks up. |
| Text\_File.txt | error if an error occurs |
| >= (if it’s for tax) |  |

**Inputs:**

Value\_To\_Lookup

Text\_File.txt

>= (for tax)

**Process Description**

Textbroker looks up Value\_To\_Lookup in Text\_File.txt and returns the corresponding value. If “>=” is present in the input, Textbroker is not looking for an exact match, it is instead looking for the first flag that is >= to Value\_To\_Lookup.

**Outputs**

Value associated with the flag it looks up.

**APIs/Objects:**

**Pseudocode:**

1. **Grabs information from Args[0] and splits everything into a String array**
2. **Opens Text\_File.txt**
3. **Compares options inside Text file to the input “Value\_To\_Lookup (Called Lookup in java)”**
4. **outputs the corresponding value**
5. **If greater than or equal to sign is present**
6. **Finds said greater than or equal to value and returns the first one correlating to that match**
7. **If value cannot be found, the “over” tax bracket would be used**