**Component: Business Services**

**Module Name: Tax**

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**Reviewers: Team 15, Bob Dahlberg**

| Inputs | Process | Outputs |
| --- | --- | --- |
| Tax bracket 2020 | 1. select tax year 2. provide gross income 3. utilize tax bracket to find taxes to be paid 4. display the taxes to be paid | taxes to be paid |
| Tax bracket 2021 |  |
| gross income |  |
| tax year |  |

**Inputs:**

* Tax bracket 2020
* Tax bracket 2021
* Gross income
* Tax year

**Process Description**

1. The user will select the tax year (2020,2021) and provide the gross income.
2. The gross income will be determined by each bracket you are a part of
3. The amount will include the max taxable amount per bracket you are fully in and a percentage of the income in the one you spill into

**Outputs**

* taxes to be paid

**APIs/Objects:**

**Pseudocode:**

If the income is less than the first tax bracket then the taxes to be paid is simply the gross income times the first tax bracket percentage.

If you spill into the next bracket then the taxes to be paid include the maximum taxable amount from tax bracket 1 and then you subtract the first tax bracket amount from the gross income to find the spillover and multiply the spillover by the second tax bracket percentage.

THIS CONTINUES UP TO THE LAST TAX BRACKET

**Component: Business Services**

**Module Name: Translate**

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| Inputs | Process | Outputs |
| --- | --- | --- |
| String | 1. select language 2. input string 3. parse string 4. add translation for each word after a comma | String of input |
| German Dictionary | String of translated input |
| Spanish Dictionary |  |
| French Dictionary |  |

**Inputs:**

* String
* German Dictionary
* Spanish Dictionary
* French Dictionary

**Process Description**

1. The user will select the language
2. The user will input a string
3. the string will be translated and the translation will appear after each word preceding a comma

**Outputs:**

* String of input
* String of translated input

**APIs/Objects:**

**Pseudocode:**

The string will be parsed and each word will be stored in a matrix.

The word will be translated into the selected language in another column of the same matrix.

The words from each row will be printed with a comma in between.

When selecting the “go back” button the second column will erase to allow for another language translation