IPO Chart

Component: Business Services/Task

Module Name: Tax

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

Inputs:
- Tax year
- Tax status
- gross income

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 for bracket you are fully in and a percentage of the income in the one you spill into

Outputs
- taxes to be paid

APIs/Objects:
- tax brackets for 2020
- tax brackets for 2021

Pseudocode:
Parse through the command line to collect the input string
Divide the input string into 3; int year, string filing status, int gross income
IF gross income < 0 THEN throw error 404
Format the filing status
IF filing status doesn't exist THEN throw error 876
Conjugate the filing status with ".txt" and search the source folder for file
IF path does not exist THEN throw error 903
Conjugate the appropriate parameters into 1 single string
Pass the parameters to the service broker which returns the tax bracket percentage
Calculate the taxes to be paid by multiplying the user gross income * tax bracket percentage

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Return the taxes to be paid