

CMSC 355 Project: IPO Charts - Group 14

Jada Franklin, Jazmin Gering, Jacob Willard, Francisco Perez, Gumsan Marip

Module Name: Business Services

Component: Tax Calculator

Input	Process	Output
tax year	calculate taxes	taxes to be paid
gross income		

Inputs:

- Tax year: The user will select the tax year that they want to calculate their taxes for.
- Gross income: The user will enter their gross income for the tax year that they want to use.

Process:

1. Will take the tax rates of the selected year and gross income entered to choose the tax rate for that particular year.
2. The taxes owed will be calculated by multiplying the gross income by the tax rate.

Outputs:

- Displays the taxes to be paid

Module Name: Business Services

Component: Translator

Input	Process	Output
-------	---------	--------

english word	Takes the english word and translates it to the foreign language.	Foreign word
language		

Inputs:

- English word: This is the default language that the user will translate the words from.
- Language: Out of three languages, the user will select which one they would like words to be translated from english to.

Process:

1. The user will select one of the three different languages they want to translate to and then type in a word or a sentence, in English.
2. The word or sentence will be processed and then translated into the selected language.

Outputs:

- Displays the translated english word or sentence in the language chosen, along with the original default language.

Module Name: Utility Services
Component: Messages

Input	Process	Output
Message id	"404" message	Translated message
language		

--	--	--

Inputs:

- Message id: The message that is typed by the user
- Language: This is the language selected that the message is translated into.

Process:

1. Selects message that is in selected language
2. Issues an “404” message for the language to translate the language

Outputs:

- Translated message

Module Name: Orchestration Services

Component: Service Broker

Input	Process	Output
Service Code	Calling the service code and directs the service	Data returned
Block of Data		

Inputs:

- Service code
- Block of data: Used for the service module being called.

Process:

1. Calls the service associated with the service code.

Outputs:

- Data returned from the service module that is being called.

Module Name:Session Manager
Component: Session Manager

Input	Process	Output
Application interaction	Takes a series of user application interactions	The maintained user specific state

Inputs:

- Application interactions

Process:

1. Takes a series of user application interactions that are tracked by the server, which includes things such as handles to database results and authenticated user identities.

Outputs:

- The maintained user specific state

Module Name: Session Manager
Component: Client Manager

Input	Process	Output
User data	none	lists

Inputs:

- User data

Process:

1.

Outputs:

- lists