ANGULAR ASSSIGNMENT

1. Description:

   This project has 3 main components. First component is main, where placed other 2 components. Second component is toolbar, which handle the toolbar of the app. Last component is UI, which responsible for displaying the main content and the interface of the app.
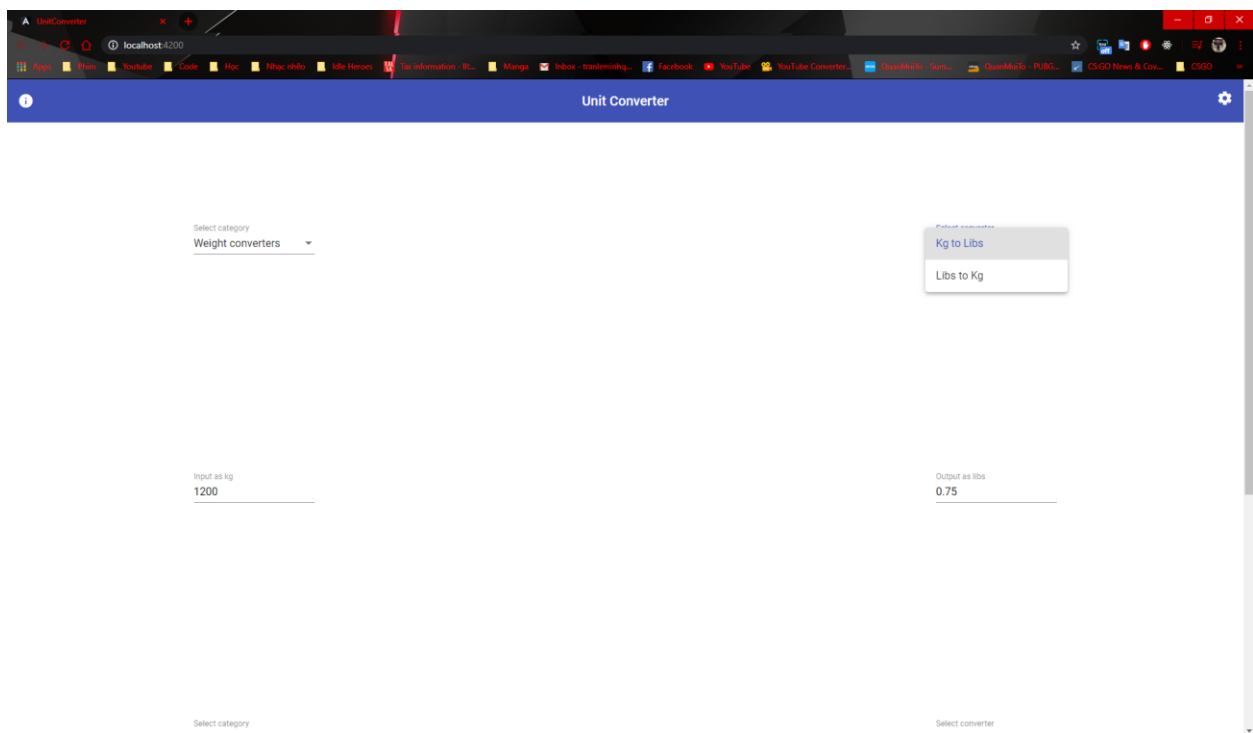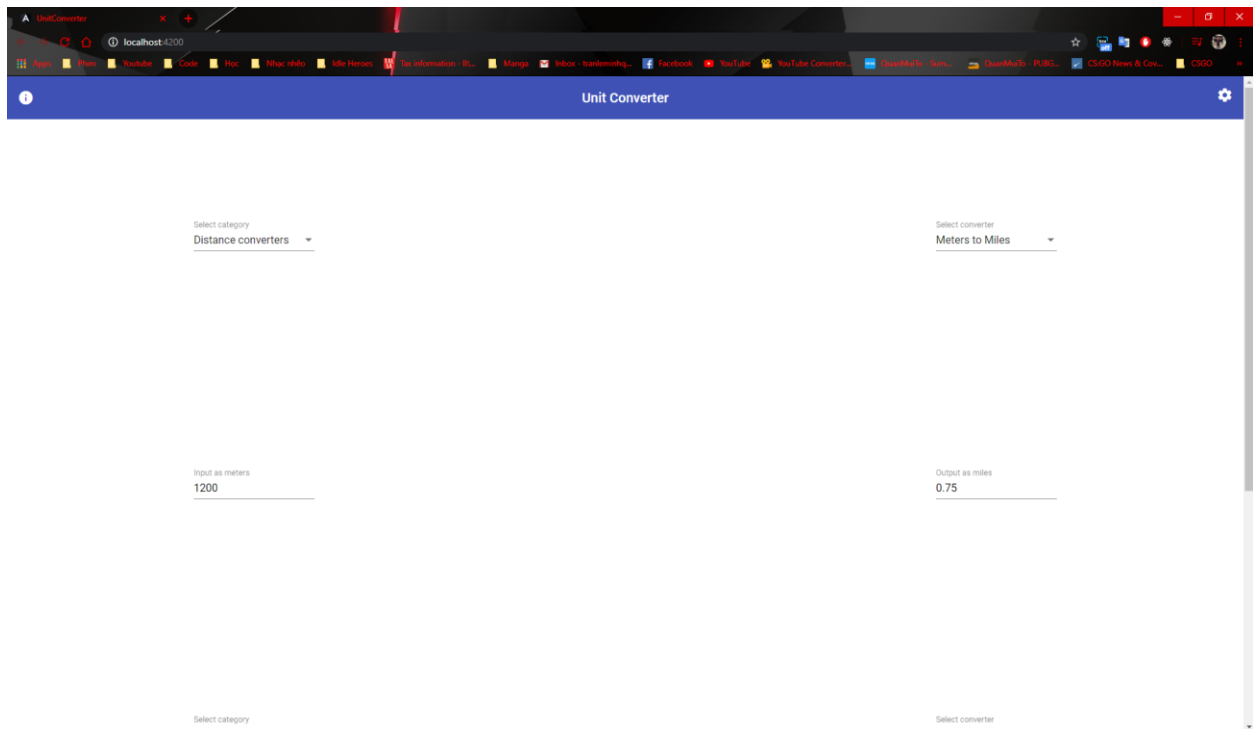
2. Class diagram:

CelsiusToFahreinheit
name: string

FahreinheitToCelsius
name: string

MeterToMiles
name: string

MilesToMeter
name: string

DollaToEuro
name: string

EuroToDolla
name: string

KgToLibs
name: string

LibsToKg
name: string

templates
UnitConverter: interface
ConverterCategory: interface

UnitConverterBase
name: string

getOutputUnit(): string
getInputUnit(): string
convert(inValue: string): string

TemperatureConverterCategory
name: string

DistanceConverterCategory
name: string

ConverterCategoryBase
name: string
converters[]: UnitConverter[]

getName(): string
getIcon(): string
getConverters(): UnitConverter[]
getConverter(name: string): UnitConverter | null

CurrencyConverterCategory
name: string

WeightConverterCategory
name: string

3. Average level requirements:

   - There are 8 converters, 4 categories.
   - Angular material lib is used in the UI.
   - Source code is readable and clean.
   - Dependency injection is used to inject service into the components needing the service

4. Screenshots

Unit Converter

Select category:

Temperature converters

Distance converters

Weight converters

Currency converters

Select converter

Celsius to Fahrenheit

Input as °C

1200

Output as °F

0.75

Select category

Temperature convert

Select converter

Celsius to Fahrenheit