

Alfa 3

name:Antonín Kadrmas

mail:kadrmas@spsejecna.cz

date:1.30.2023

school:Secondary Technical School of Electrical Engineering Jecna 30, Prague, Czech Republic

school project

used external library's:

- mysql-connector-python => <https://pypi.org/project/mysql-connector-python/>
- prettytable => <https://pypi.org/project/prettytable/>

Run:

- run main.py in src folder as
 - cd src
 - python main.py
- login with name
 - use admin to login as administrator
 - use some different name to login as a user
 - if this name does not exist you will create new user

Config:

- config has two main part
 - database mandatory part
 - import optional part (without import config data can not be imported)
- config has to be in config.json file in config folder
- example of config:

```
{  
  "db_config":{  
    "address":"ip_address",  
    "database":"db_name"  
  },  
  "import":{  
    "file":"absolute_file_path",
```

```

    "delimiter": ";"
}
}

```

- database configuration has address and database parameters
 - address is ip address of database (it could be a localhost)
- database parameter is name of the database which we will working with
- import configuration has file and delimiter parameters
 - file parameter is absolute path to imported csv file
 - delimiter is optional parameter, and it is one character that divides values in csv (; by default)
 - config.json will work with or without delimiter variable

Import:

- example imported files is in data import folder
- all imported files have to be of type csv
- delimiter is in default ; but in config.json can be changed
- if there is some error in import config to see the changes you have to restart the program
- import into brand, csv file is composed of two values
 - brand name this value has to be unique
 - residence of the brand like New York or Prague
 - for example:
 - Samsung;Thailand
 - Apple;Washington
 - Apple is brand name
 - Washington is residence of the Apple
 - import into product, csv file is composed of four values
 - product name
 - weight in kg have to be number can be decimal
 - price have to be a number can be decimal
 - brand id as
 - number integer has to exist in brand table
 - string brand name has to exist in brand table
 - for example:
 - shoes;0.02;49.99;1
 - (the 1 represent id of the specific brand)
 - phone;0.05;249.49;Samsung
 - phone is name of the product
 - 0.05 is weight in kilograms of the phone
 - 49.99 is price for the phone
 - Samsung is a brand name which the phone belongs to

Errors:

User interface:

__user_input

- error: input has to be integer
- 'error: Integer out of range'

ApplicationUser:

__create_order

- error: add some product into bin to create order
- error: in product id => 'id', check your bin
 - some id of the product in bin does not exists in database

__delete_order

- error: order id is lower or equal 0
- error: in order id wrong datatype
- error: paid orders cannot be deleted
 - once order is paid cannot be deleted

__add_product

- error: product id is lower or equal 0
- error: in product id wrong datatype
- error: amount is lower or equal 0
- error: in product wrong datatype

__remove_product

- error: product id is lower or equal 0
- error: in product id wrong datatype
- error: product does not exist in bin

__add_cash

- error: cash is lower or equal 0
- error: in cash is used wrong datatype
- error: no user has been updated

__paid_order

- error: order id is lower or equal 0
- error: in order id wrong datatype
- error: order with id 'chosedOrderId' does not exists
- 'error: dont have enough cash'

ApplicationAdmin

__send_paid_order

- error: order id is lower or equal 0
- error: in order id wrong datatype

__import_brand

- 'error: some problem with converting to csv'
 - Some problem when reading the content
- error: on line 'index' you have empty value
- error: name 'brand_name' already exists
- error: bad amount of arguments in line 'index' number of arguments actual 'argument_count' expected 2

__import_products

- error: some problem with converting to csv
- error: on line 'index' you have empty value
- error: brand with name 'name' on line 'index' does not exists
- error: brand with id 'brand_id' does not exists
- error: bad amount of arguments in line 'index' number of arguments actual 'argument_count' expected 4

LoadConfig

__init__

- config/config.json file does not exists please recreate it using readme.txt
- text in config/config.json is not json please recreate it using readme.txt
- Error in address parameter look at the readme documentations
 - it is not ipv4 address or local host
- Error in database name parameter is empty
 - It is empty

_check_json

- config params is incorrect or missing please recreate it using readme.txt
- 'variable' params is incorrect or missing please recreate it using readme.txt

import_path

- error: import param is incorrect or missing please recreate it using readme.txt
- error: import path param is incorrect or missing please recreate it using readme.txt
- error: file does not have .csv ending
- error: file does not exists

LoadConfigSingleton

__init__

- load config is exists
 - trying to use constructor when instance is already exists

UserSingleton

__init__

- user exists
 - trying to use constructor when instance is already exists

Connection

__init__

- db connection is exists
 - trying to use constructor when instance is already exists

__connection

- Error in database connection check database name and ip address in config.json in config file

View

order_final_price

- 'error: order id is incorrect'
 - Order does not exists

order_and_products

- error: no order found

UserRowGateway

Insert

- error: nickname 'nick_name' is already exists

update

- error: nickname 'nick_name' is already exists
- error: no user has been updated

delete

- error: can not delete your account
- error: no user has been deleted

ProductOrderRowGateway

Insert

- error: order id 'order_id' or product id 'product_id' is incorrect and does not exists

update

- error: order id 'new_order_id' is incorrect and does not exists
- error: product id 'new_product_id' is incorrect and does not exists
- error: incorrect datatype
 - incorrect datatype of amount
- error: no product_order has been updated

delete

- error: no product_order has been deleted

ProductRowGateway

Insert

- error: brand with id {brand_id} does not exists

update

- error: incorrect datatype 'new_product_name'
- error: brand with id 'new_brand_id' does not exists
- error: no product has been deleted

delete

- error: no product has been deleted

__it_is_number

- error: 'variable' is lower or equal zero
- error: 'variable' is not a number

OrderRowGateway

Insert

- error: user with id 'user_id' does not exists

update

- incorrect datatype or out of range 'new_paid'
- error: incorrect datatype or out of range 'new_send'
- error: no order has been updated

delete

- error: no order has been deleted

BrandRowGateway

Insert

- error: name 'brand_name' already exists

update

- error: name 'brand_name' already exists
- error: no brand has been updated

delete

- error: no brand has been deleted

End resume:

Alfa in the order third is the assignment I spent on more time then on alfa 1 and alfa 2 together. The code took me just half of the work and the other half was comprehensive required documentation. I had to find out how to make uml diagrams again after year and a half and it took me lot of time and still, I am not sure if I did it correct way. Tests cases were on one hand, took much more time creating them then creating the unit tests but on the other hand creating them was much easier and natural. To sum up it was interesting project but much more complicated than it is seemed at the beginning.