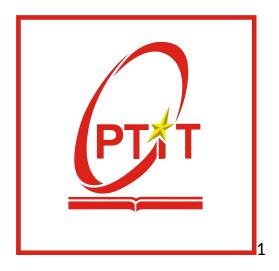
HỌC VIỆN CÔNG NGHỆ BƯU CHÍNH VIỄN THÔNG



Báo cáo hàng tuần

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Báo cáo tuần 6

Sửa lại file code để cho chuyên nghiệp hơn

1. Cấu hình file .env

```
# MONGODB DB
MONGO_URI=mongodb://nguyenphuc:123456@localhost:27017
MONGO_DB_NAME=Glamira
```

2. Cấu hình database config

```
import os
from dataclasses import dataclass
from dotenv import load dotenv
from typing import Dict
class DatabaseConfig():
  def validate(self) -> None:
      for key, value in self. dict .items():
           if value is None:
              raise ValueError(f"-----Missing config for
{ key}----")
@dataclass
class MongoDBConfig(DatabaseConfig):
  uri : str
def get database config() -> Dict[str,DatabaseConfig]:
   load dotenv()
   config = {
       "mongodb" : MongoDBConfig(
          uri = os.getenv("MONGO URI"),
          db name = os.getenv("MONGO DB NAME")
   for db, setting in config.items():
      print(type(setting))
      setting.validate()
   return config
```

```
db_config = get_database_config()
print(db_config)
```

3. Cấu hình mongodb_connect

```
from pymongo import MongoClient
from pymongo.errors import ConnectionFailure
from config.database config import get database config
from database.schema manager import create mongodb schema,
validate mongodb schema
class MongoDBConnect:
   def init (self, mongo uri, db name):
       self.mongo uri = mongo uri
       self.client = None
       self.db = None
           self.client = MongoClient(self.mongo uri)
           self.client.server info() # Test connection
          return self.db
      except ConnectionFailure as e:
(e)") from e
  def close(self):
      if self.client:
           self.client.close()
       self.connect()
       return self
   def exit (self, exc type, exc val, exc tb):
       self.close()
```

```
projection = {
      "option": 1
   documents = db.summary.find({}, projection).limit(5)
   return list(documents)
def main():
   configMongo = get database config()
   with MongoDBConnect(configMongo["mongodb"].uri,
configMongo["mongodb"].db name) as mongo client:
      db = mongo client.db
      create mongodb schema(db)
      validate mongodb schema(db)
      documents = query product views(db)
       for doc in documents:
          print(doc)
if name == " main ":
  main()
```

4. Cấu hình schema_manager

```
"current url", "collection", "product id"],
                        " id": {"bsonType": ["objectId",
"string"]},
                        "time stamp": {"bsonType": ["int",
"long"]},
"null"]},
"null"]},
"null"]},
"null"]},
                        "api_version": {"bsonType": ["string",
"null"]},
"null"]},
"null"]},
["string", "bool", "null"]},
                        "current url": {"bsonType": "string"},
"null"]},
                        "email address": {"bsonType":
["string", "null"]},
"null"]},
"string", "null"]},
                        "collection": {"bsonType": "string"},
```

```
{"bsonType": ["string", "null"]},
["string", "null"]},
["string", "null"]},
                                    "value id": {"bsonType":
           })
           db.summary.create index("product id")
       except CollectionInvalid:
   else:
       print("summary collection already exists, skipping
creation")
def validate mongodb schema(db):
   collections = db.list collection names()
   print("Collections:", collections)
   if "summary" not in collections:
       raise ValueError("Missing summary collection in
MongoDB")
   document count = db.summary.count documents({})
   if document count == 0:
   else:
documents")
```

5. Viết file main

```
from database.mongodb_connect import MongoDBConnect,
query_product_views
from database.schema_manager import create_mongodb_schema,
validate_mongodb_schema
```

```
def main():
    configMongo = get_database_config()
    with MongoDBConnect(configMongo["mongodb"].uri,
    configMongo["mongodb"].db_name) as mongo_client:
        db = mongo_client.db
        # Ensure schema exists and validate
        create_mongodb_schema(db)
        validate_mongodb_schema(db)

    # Query and display documents
        documents = query_product_views(db)
        print("Retrieved documents:")
        for doc in documents:
            print(doc)

if __name__ == "__main__":
        main()
```

6. Kết quả

```
Summary collection already exists, skipping creation

Collections: ['summary', 'ProductViews']

summary collection contains 41432473 documents

Validated schema for summary collection

Retrieved documents:

{'.id': ObjectId('Sed8cb2bc671fc36674655ad'), 'time_stamp': 1591266092, 'current_url': 'https://www.glamira.fr/glamira-pendant-viktor.html?alloy=yellow-375', 'referrer_url': 'https://www.glamira.com.au/customcheckout/onepage/payment/', 'referrer_url': 'https://www.glamira.com.au/customcheckout/onepage/payment/', 'referrer_url': 'https://www.glamira.com.au/customcheckout/onepage/payment/', 'referrer_url': 'https://www.glamira.com.au/customcheckout/onepage/payment/', 'referrer_url': 'https://www.glamira.com.au/customcheckout/onepage/payment/', 'referrer_url': 'https://www.glamira.com.au/glamira-diamonds-ohrstecker-louisa-skug180735.html?allo
{'.id': ObjectId('Sed8cb2a796d133790cefa27'), 'time_stamp': 1591266091, 'current_url': 'https://www.glamira.com.au/glamira-diamonds-ohrstecker-louisa-skug180735.html?allo
{'.id': ObjectId('Sed8cb2a796d133790cefa27'), 'time_stamp': 1591266091, 'current_url': 'https://www.glamira.bg/', 'referrer_url': '', 'collection': 'view_home_page'}

MongoOB connection closed

Process finished with exit code 0
```