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--- AccountDAO.py ---
import psycopg2
from utils. Config import Config
class AccountDAO:
  def __init__(self):
     self.dbname = "postgres"
     self.user = "postgres"
     self.host = "localhost"
     self.port = "5432"
     self.password = Config.DATABASE_PASSWORD
  def connect(self):
     """Establish a database connection."""
     try:
       self.connection = psycopg2.connect(
         dbname=self.dbname,
         user=self.user,
         password=self.password,
         host=self.host,
         port=self.port
       )
       self.cursor = self.connection.cursor()
       print("Database Connection Established.")
     except Exception as error:
       print(f"Error connecting to the database: {error}")
       self.connection = None
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self.cursor = None
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def add_account(self, username: str, password: str, website: str):
     """Add a new account to the database using structured data."""
     try:
       # Combine DTO logic here by directly using the parameters
       query = "INSERT INTO accounts (username, password, website) VALUES (%s, %s, %s)"
       values = (username, password, website)
       self.cursor.execute(query, values)
       self.connection.commit()
       print(f"Account {username} added successfully.")
       return True
     except Exception as error:
       print(f"Error inserting account: {error}")
       return False
  def fetch_account_by_website(self, website):
     """Fetch account credentials for a specific website."""
     try:
           query = "SELECT username, password FROM accounts WHERE LOWER(website) =
LOWER(%s)"
       self.cursor.execute(query, (website,))
       result = self.cursor.fetchone()
       print(result)
       return result
     except Exception as error:
       print(f"Error fetching account for website {website}: {error}")
```

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def fetch_all_accounts(self):
  """Fetch all accounts from the database."""
  try:
     query = "SELECT id, username, password, website FROM accounts"
    self.cursor.execute(query)
     result = self.cursor.fetchall()
     print(result)
     return result
  except Exception as error:
     print(f"Error fetching accounts: {error}")
     return []
def delete_account(self, account_id):
  """Delete an account by its ID."""
  try:
     self.cursor.execute("DELETE FROM accounts WHERE id = %s", (account_id,))
     self.connection.commit()
     if self.cursor.rowcount > 0: # Check if any rows were affected
       print(f"Account with ID {account_id} deleted successfully.")
       return True
     else:
       print(f"No account found with ID {account_id}.")
       return False
  except Exception as error:
     print(f"Error deleting account: {error}")
```

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def reset_id_sequence(self):
     """Reset the ID sequence to the maximum ID."""
    try:
       reset_query = "SELECT setval('accounts_id_seq', (SELECT MAX(id) FROM accounts))"
       self.cursor.execute(reset_query)
       self.connection.commit()
       print("ID sequence reset successfully.")
     except Exception as error:
       print(f"Error resetting ID sequence: {error}")
  def close(self):
     """Close the database connection."""
     if self.cursor:
       self.cursor.close()
     if self.connection:
       self.connection.close()
       print("Database connection closed.")
--- global_vars.py ---
# global_vars.py
class GlobalState:
  user_message = None
```

## @classmethod def reset\_user\_message(cls): """Reset the global user\_message variable to None."""

cls.user\_message = None