--- AccountDAO.py ---

```python
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
```

```python
        self.cursor = None

    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}")
```

```python
        return None

    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}")
```

```python
        return False

    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."""
        try:
            if self.cursor:
                self.cursor.close()
            if self.connection:
                self.connection.close()
                print("Database connection closed.")
        except Exception as error:
            print(f"Error closing the database connection: {error}")



--- global_vars.py ---

import re
```

```python
class GlobalState:

    user_message = 'default'


    @classmethod
    def reset_user_message(cls):

        """Reset the global user_message variable to None."""

        cls.user_message = None


    @classmethod
    def parse_user_message(cls, message):

        """

        Parses a user message by splitting it into command and up to 6 variables.

        Handles quoted substrings so that quoted parts (e.g., "October 2") remain intact.

        """

        #print(f"User_message before parsing: {message}")

        message = message.replace("!", "").strip()  # Remove "!" and strip spaces

        #print(f"User_message after replacing '!' with empty string: {message}")


        # Simple split by spaces, keeping quoted substrings intact

        parts = re.findall(r'\"[^\"]+\"|\S+', message)

        #print(f"Parts after splitting: {parts}")


        # Ensure we always return 6 variables (command + 5 parts), even if some are empty

        result = [parts[i].strip('"') if len(parts) > i else "" for i in range(6)]  # List comprehension to handle missing parts


        #print(f"Result: {result}")
```

```
    return result  # Return the list (or tuple if needed)
```