**TASK MANAGER APP : SOURCE CODE**

import hashlib

if \_\_name\_\_ == "\_\_main\_\_":

*# Main start function*

    def mainSt():

        while True:

            print("\n1. Register")

            print("2. Login")

            print("3. Exit")

            choice = input("Enter your choice: ")

            if choice == '1':

                register()

            elif choice == '2':

                logged\_in, username = login()

                if logged\_in:

                    task\_manager\_menu(username)

            elif choice == '3':

                print("Exiting the program.")

                break

            else:

                print("Invalid choice, please try again.")

*# Main Menu after Login*

    def task\_manager\_menu(username):

        while True:

            print("\n1. View Tasks")

            print("2. Add Task")

            print("3. Mark Task as Completed")

            print("4. Delete Task")

            print("5. Logout")

            choice = input("Enter your choice: ")

            if choice == '1':

                view\_tasks(username)

            elif choice == '2':

                add\_task(username)

            elif choice == '3':

                mark\_task\_completed(username)

            elif choice == '4':

                delete\_task(username)

            elif choice == '5':

                print("Logging out...")

                break

            else:

                print("Invalid choice, please try again.")

*# Function to delete a task*

    def delete\_task(username):

        task\_id = input("Enter the task ID to delete: ")

        tasks = []

        with open(f'tasks\_{username}.txt', 'r') as file:

            for line in file:

                task\_id\_in\_file, task, status =

line.strip().split(',')

                if task\_id\_in\_file != task\_id:

                    tasks.append(f"{task\_id\_in\_file},{task},

{status}")

        with open(f'tasks\_{username}.txt', 'w') as file:

            for task in tasks:

                file.write(task + '\n')

        print("Task deleted successfully.")

*# Function to mark a task as completed*

    def mark\_task\_completed(username):

        task\_id = input("Enter the task ID to mark as

completed: ")

        tasks = []

        with open(f'tasks\_{username}.txt', 'r') as file:

            for line in file:

                task\_id\_in\_file, task, status =

line.strip().split(',')

                if task\_id\_in\_file == task\_id:

                    status = "Completed"

                tasks.append(f"{task\_id\_in\_file},{task},

{status}")

        with open(f'tasks\_{username}.txt', 'w') as file:

            for task in tasks:

                file.write(task + '\n')

        print("Task marked as completed.")

*# Function to view tasks*

    def view\_tasks(username):

        print("\nYour Tasks:")

        with open(f'tasks\_{username}.txt', 'r') as file:

            for line in file:

                task\_id, task, status =

line.strip().split(',')

                print(f"Task ID: {task\_id}, Task: {task},

Status: {status}")

*# Function to add a new task*

    def add\_task(username):

        task = input("Enter the task description: ")

        with open(f'tasks\_{username}.txt', 'a') as file:

            task\_id = sum(1 for line in

open(f'tasks\_{username}.txt')) + 1

            file.write(f"{task\_id},{task},Pending\n")

print("Task added successfully.")

*# Function for user login*

    def login():

        username = input("Enter your username: ")

        password = input("Enter your password: ")

*# Hash the entered password*

        hashed\_password =

hashlib.sha256(password.encode()).hexdigest()

*# Verify credentials*

        with open('users.txt', 'r') as file:

            for line in file:

                stored\_username, stored\_password =

line.strip().split(',')

if stored\_username == username and

stored\_password == hashed\_password:

                    print("Login successful!")

                    return True, username

print("Invalid credentials, please try again.")

        return False, None

*# Function for user registration*

    def register():

        username = input("Enter a username: ")

        password = input("Enter a password: ")

*# Hash the password for security*

        hashed\_password =

hashlib.sha256(password.encode()).hexdigest()

*# Store the credentials in a file*

        with open('users.txt', 'a') as file:

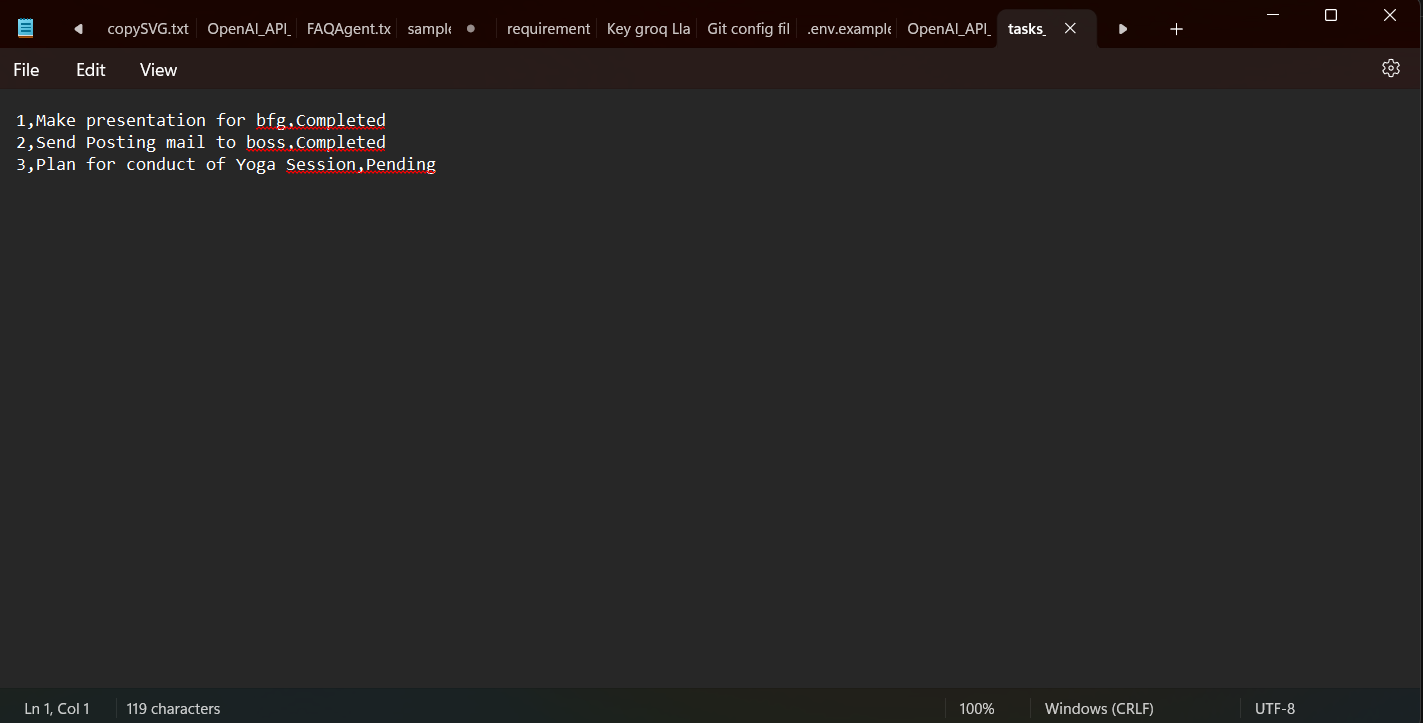
            file.write(f"{username},{hashed\_password}\n")

        print("Registration successful!")

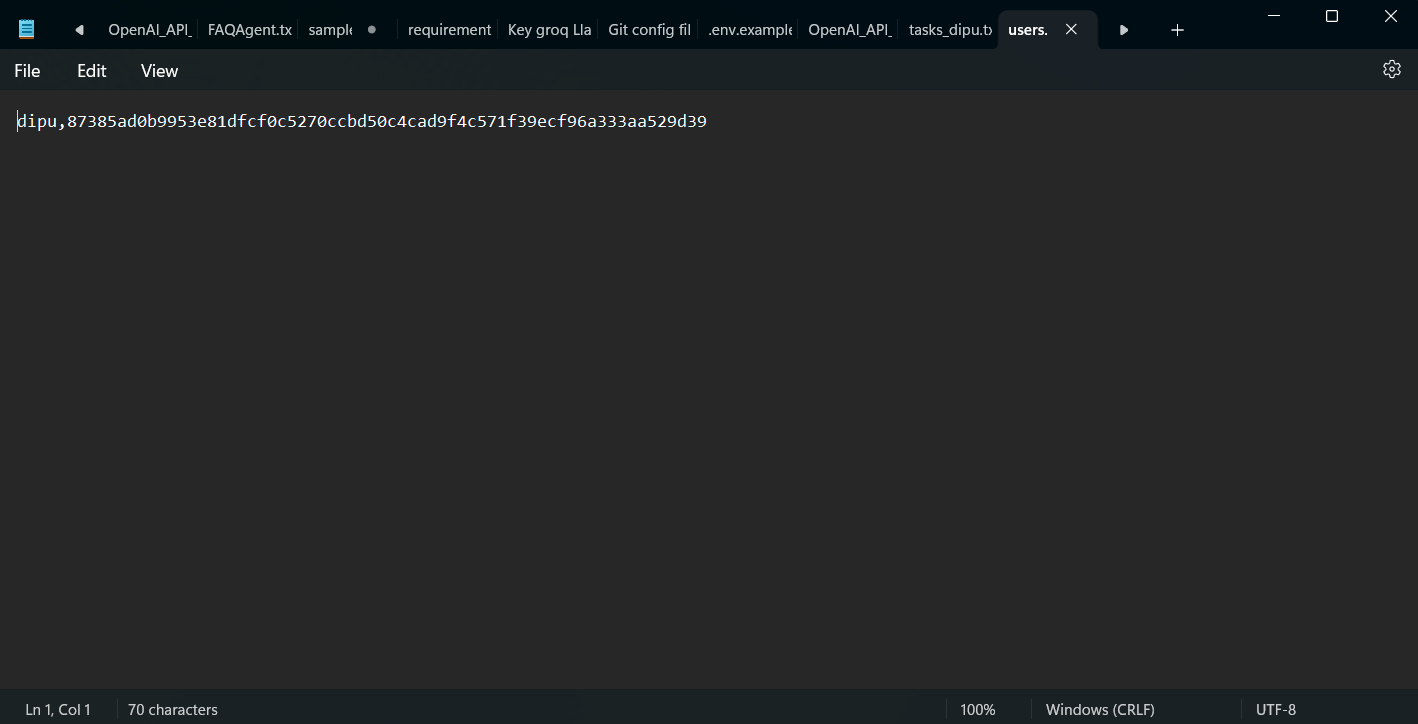
*# Calling Main start function on initialization*

    mainSt()

**Screenshot of Tasks.txt file created after Login & Managing Tasks**

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**Screenshot of Users.txt file created after Registration**

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**TASK MANAGER APP : OUTPUT SCREEN SHOTS**

