Assignment – REST Operation[POST & GET]

❖ **Features - Web Blog app provides features such as:**
1. Register user with credentials such as username, email and password (POST).
2. At the time saving password in database password will stored in encoded format.
3. Multiple registration of user is allowed
4. Able to get all registered user list (GET).
5. Able to get specific user using its id (GET-/*/id).
6. Used in memory database – H2.

❖ **Technology Stack Used:**
1. **Back End:**
   a. Java – Used Java as a main technology
   b. Spring Boot - Used to implement REST API
   c. Spring Security – Used to secure REST API.
   d. Hibernate using JPA
   e. Maven – Used as a build tool
   f. Database Engine – H2 (In Memory Database).
2. Used Tools:
   a. Postman – to check REST endpoints.
   b. H2 console – in memory database URL.
   c. Mockito – for test cases

❖ **Screenshots:**

1. Inserting default user details through application :

```
J AuthController.java    J ApplicationTests.java    📄 data.sql ⊠
1 INSERT INTO user (`id`, `created_at`, `email`, `password`, `user_name`) VALUES
2     (101, '2021-01-26 14:26:05', 'test@test.com', '$2a$10$gRa5vOkkb5nF4Bw0Up6rieY8UW1s6jhQzu9WfsYcVeAYxHtKvRAxq', 'test');
3
4
```

2. Default user in H2 database :

```
📕 jdbc:h2:mem:userdb        Run  Run Selected  Auto complete  Clear  SQL statement:
⊟ 🔲 USER                     SELECT * FROM USER;
  ⊞ 🔲 ID
  ⊞ 🔲 CREATED_AT
  ⊞ 🔲 EMAIL
  ⊞ 🔲 PASSWORD
  ⊞ 🔲 USER_NAME
  ⊞ 🔠 Indexes
⊞ 📁 INFORMATION_SCHEMA
⊞ ▦ Sequences
⊞ ⦿ Users                    SELECT * FROM USER;
ⓘ H2 1.4.197 (2018-03-18)    ID  CREATED_AT         EMAIL          PASSWORD                                                        USER_NAME
                             101 2021-01-26 14:26:05 test@test.com $2a$10$gRa5vOkkb5nF4Bw0Up6rieY8UW1s6jhQzu9WfsYcVeAYxHtKvRAxq test
                             (1 row, 89 ms)
```

3. Check default user through Postman:

```
GET ∨    http://localhost:8080/api/auth/alluser                    Params    Send ∨   Save ∨

Body  Cookies  Headers (8)  Test Results                    Status: 200 OK   Time: 693 ms

Pretty  Raw  Preview  JSON ∨  ⇥                                            📋 Q

1 ▾ [
2 ▾     {
3          "id": 101,
4          "userName": "test",
5          "password": "$2a$10$gRa5vOkkb5nF4Bw0Up6rieY8UW1s6jhQzu9WfsYcVeAYxHtKvRAxq",
6          "email": "test@test.com",
7          "createdAt": 1611651365
8      }
9  ]
```
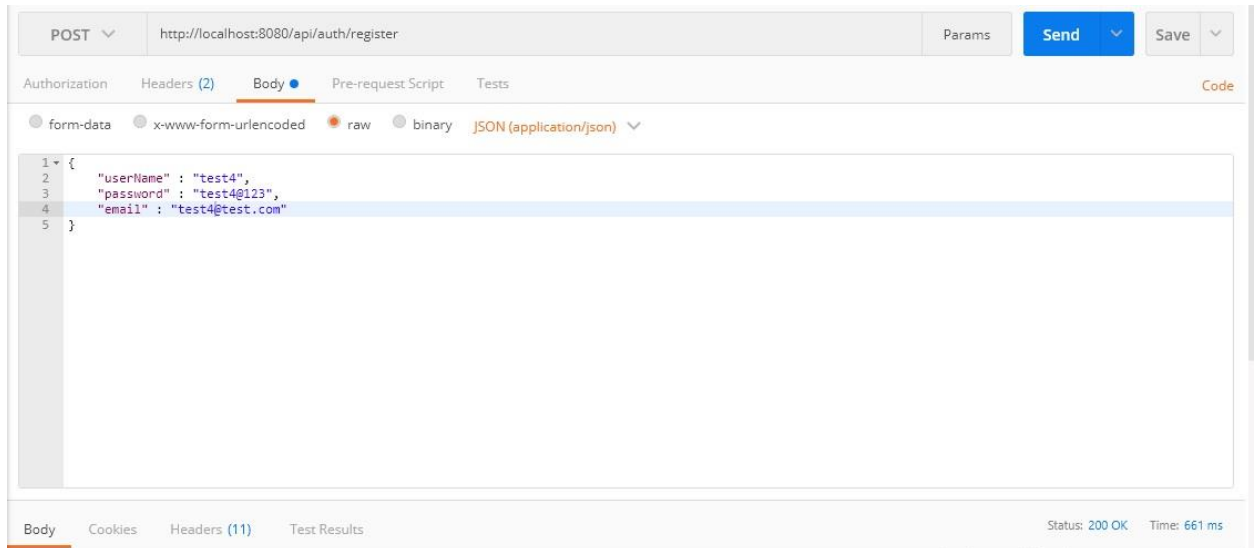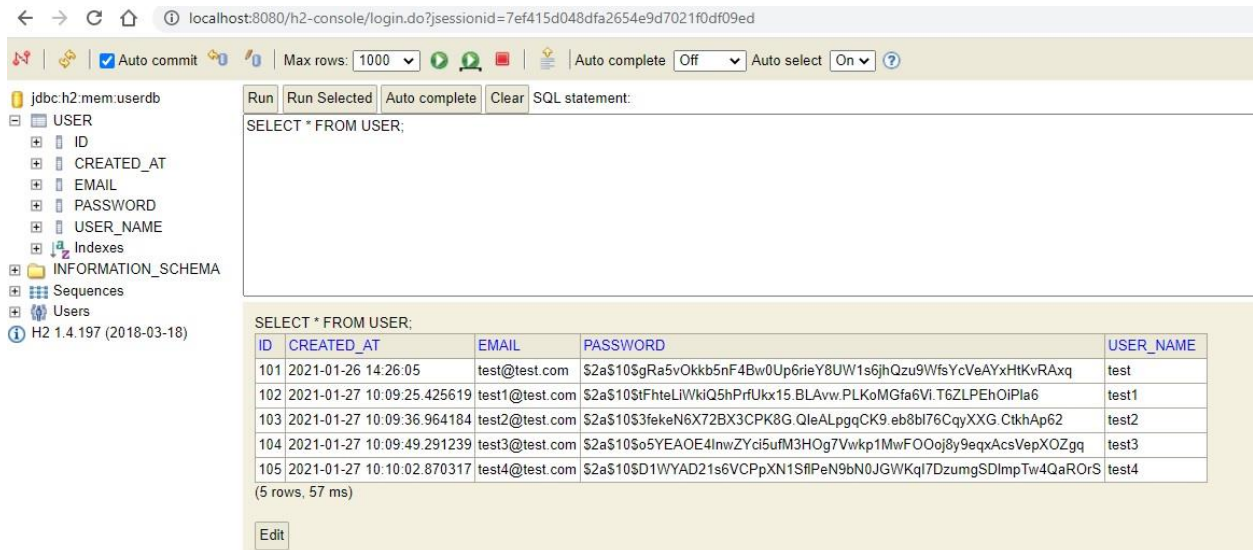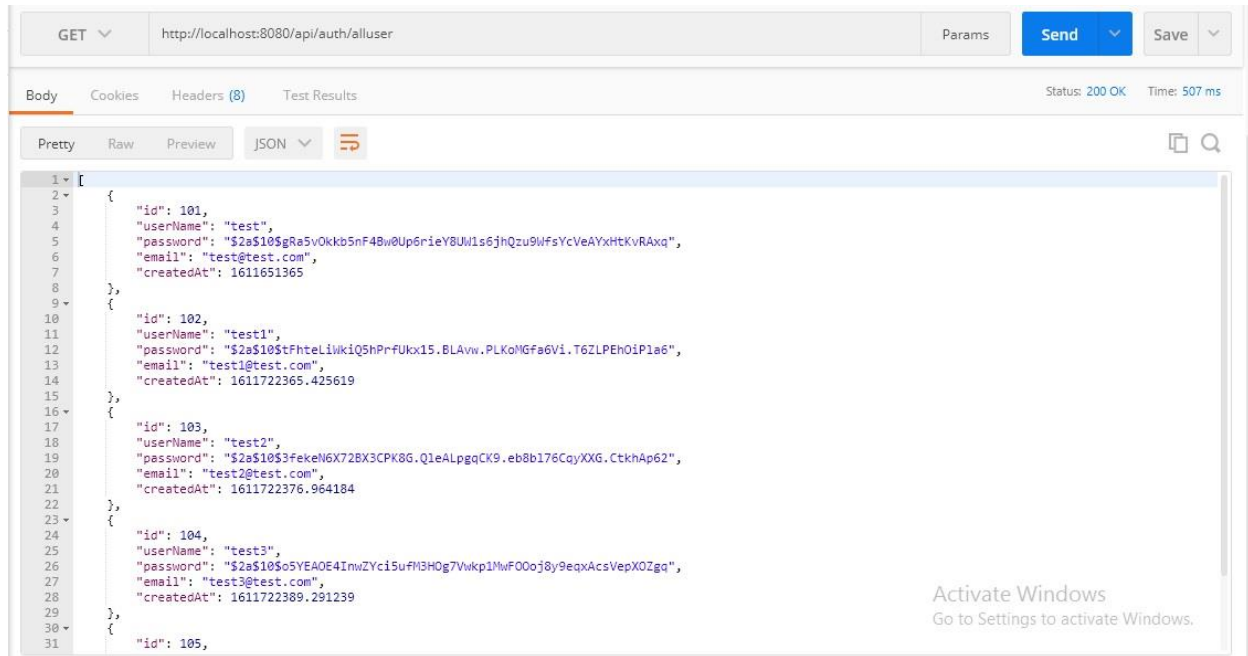
4. Register user through postman - Success Page:

5. Check all registered user in H2 database:
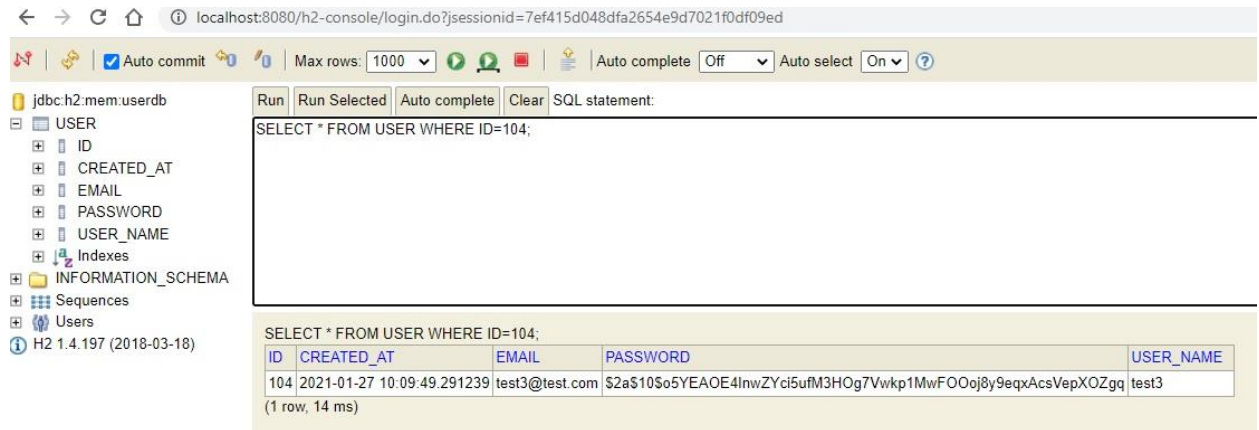
6. Check all registered user through Postman :

7. Check not registered user through Postman (throws exception) :

8. Check Single user in H2 database :

9. Run Application through command prompt: