

## 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:

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## 1. Inserting default user details through application :

```
AuthController.java 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$10$gRa5v0kbb5nF4Bw0Up6rieY8UW1s6jhQzu9WfsYcVeAYxHtkVRAxq', 'test');
3
4
```

## 2. Default user in H2 database :

jdbc:h2:mem:userdb

USER

- ID
- CREATED\_AT
- EMAIL
- PASSWORD
- USER\_NAME
- Indexes

INFORMATION\_SCHEMA

Sequences

Users

H2 1.4.197 (2018-03-18)

Run Run Selected Auto complete Clear SQL statement:

SELECT \* FROM USER;

SELECT \* FROM USER;

ID	CREATED_AT	EMAIL	PASSWORD	USER_NAME
101	2021-01-26 14:26:05	test@test.com	\$2a\$10\$gRa5v0kbb5nF4Bw0Up6rieY8UW1s6jhQzu9WfsYcVeAYxHtkVRAxq	test

(1 row, 89 ms)

## 3. Check default user through Postman:

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

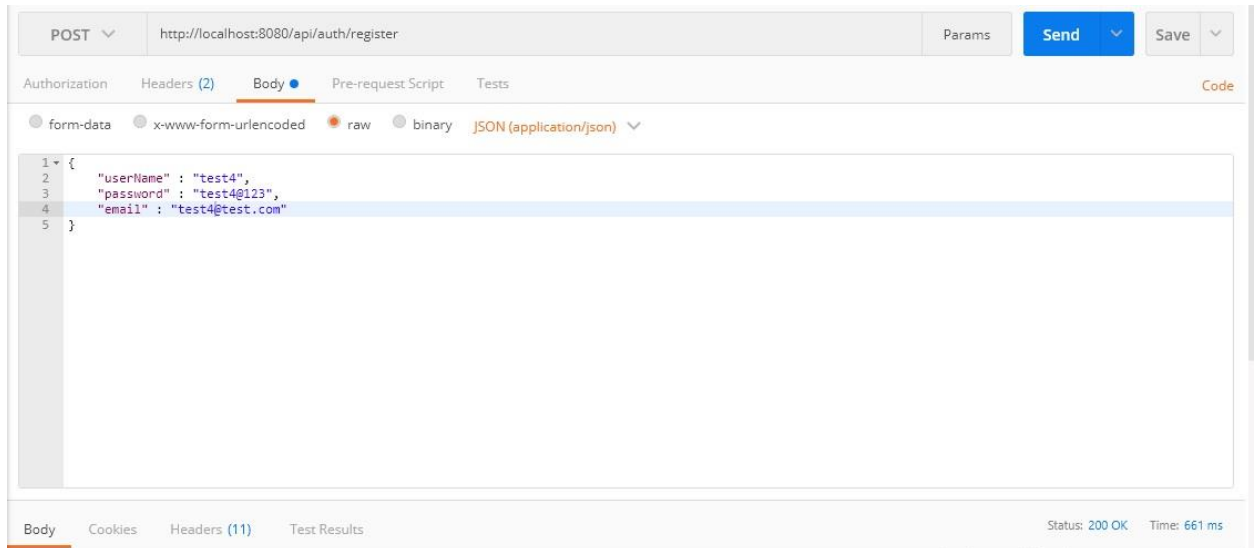
Body Cookies Headers (8) Test Results Status: 200 OK Time: 693 ms

Pretty Raw Preview JSON

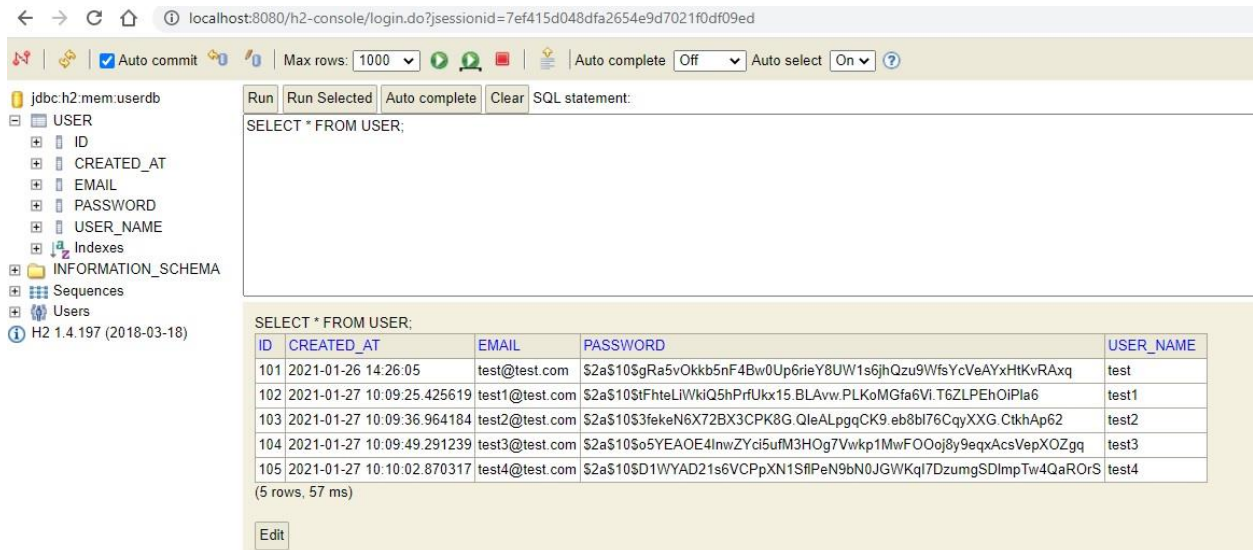
```
1 [
2   {
3     "id": 101,
4     "userName": "test",
5     "password": "$2a$10$gRa5v0kbb5nF4Bw0Up6rieY8UW1s6jhQzu9WfsYcVeAYxHtkVRAxq",
6     "email": "test@test.com",
7     "createdAt": 1611651365
8   }
9 ]
```

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## 4. Register user through postman - Success Page:

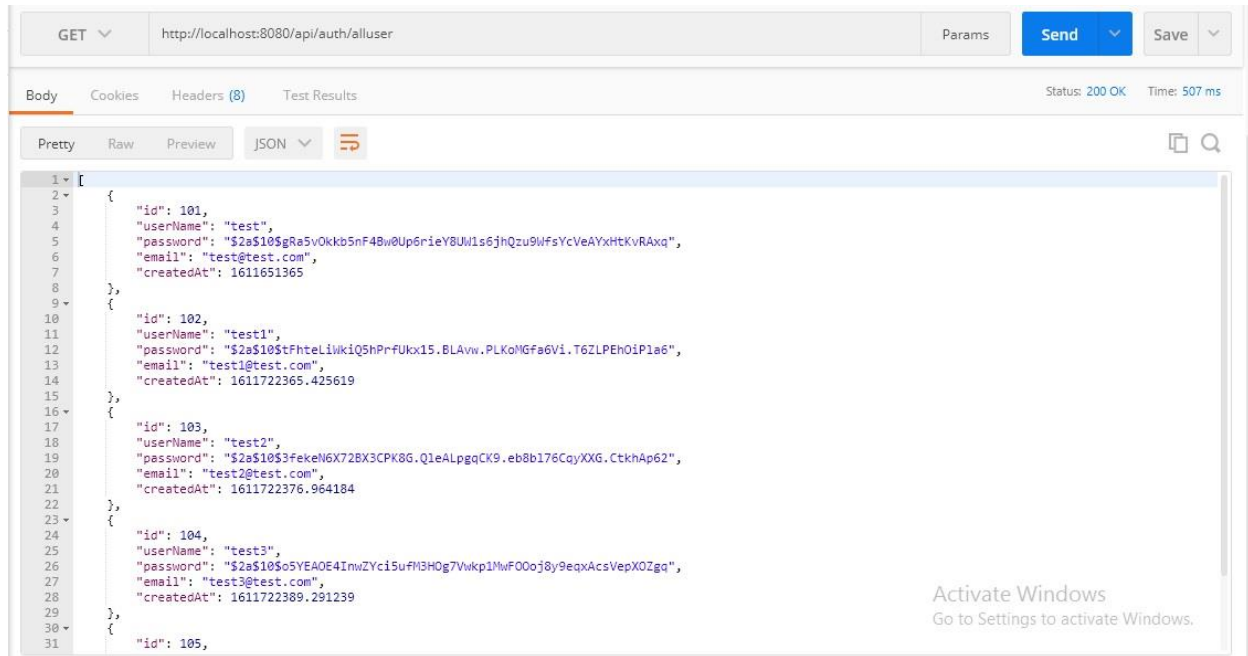


## 5. Check all registered user in H2 database:



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## 6. Check all registered user through Postman :

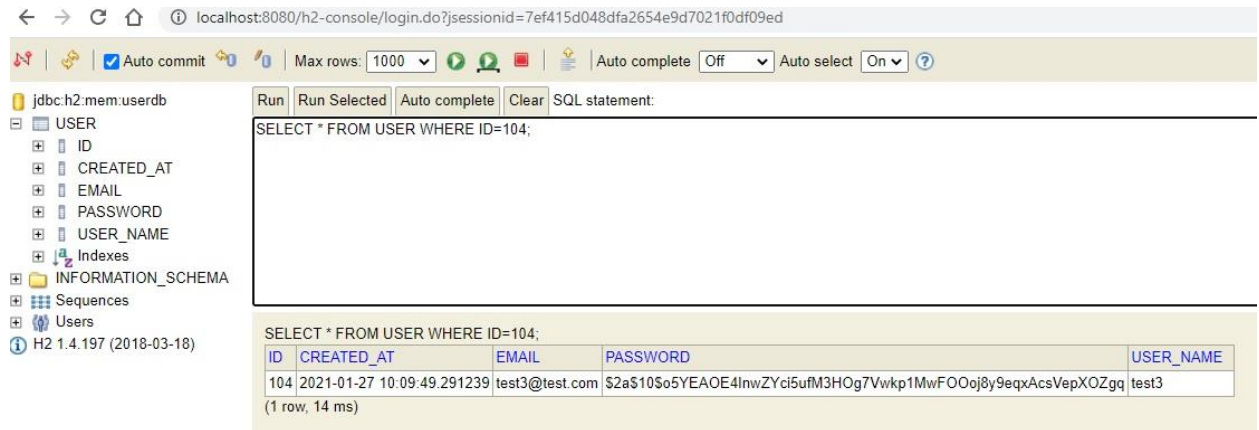


## 7. Check not registered user through Postman (throws exception) :



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## 8. Check Single user in H2 database :



The screenshot shows the H2 console interface. On the left, a tree view displays the database schema, including tables like USER, INFORMATION\_SCHEMA, and SEQUENCES. The main area shows a SQL statement: `SELECT * FROM USER WHERE ID=104;`. Below the statement, the results are displayed in a table with columns: ID, CREATED\_AT, EMAIL, PASSWORD, and USER\_NAME. The results show one row for user ID 104, created at 2021-01-27 10:09:49.291239, with email test3@test.com and password \$2a\$10\$05YEA0E4lnwZYci5uffM3HOg7Vwkp1MwFO0oj8y9eqxAcsvXOZgq. The user name is test3.

ID	CREATED_AT	EMAIL	PASSWORD	USER_NAME
104	2021-01-27 10:09:49.291239	test3@test.com	\$2a\$10\$05YEA0E4lnwZYci5uffM3HOg7Vwkp1MwFO0oj8y9eqxAcsvXOZgq	test3

## 9. Run Application through command prompt:

```
java -jar user-register-app2-0.0.1-SNAPSHOT.jar --server.port=9595

D:\MySTS\client_masktek_assignment-h2\target>java -jar user-register-app2-0.0.1-SNAPSHOT.jar --server.port=9595

:: Spring Boot :: (v2.1.2.RELEASE)

2021-01-27 12:13:33.217 INFO 4344 --- [main] com.app.userregister.Application : Starting Application
2021-01-27 12:13:49.012 WARN 4344 --- [main] aWebConfiguration$JpaWebMvcConfiguration : spring.jpa.open-in-view is enabled by default. Therefore
series may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2021-01-27 12:13:50.006 INFO 4344 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 9595 (http) with context
2021-01-27 12:13:50.012 INFO 4344 --- [main] com.app.userregister.Application : Started Application in 18.644 seconds (JVM running
2021-01-27 12:14:11.489 INFO 4344 --- [nio-9595-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherSe
2021-01-27 12:14:11.493 INFO 4344 --- [nio-9595-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2021-01-27 12:14:11.586 INFO 4344 --- [nio-9595-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 92 ms
Hibernate: select user0_.id as id1_0_0_, user0_.created_at as created_2_0_0_, user0_.email as email3_0_0_, user0_.password as password4_0_0_, user0_.us
```