Handling User Authentication

Screenshots

Initial UserEntity (user_entity table) with User Details in the database

	user_name	email	password
▶	Sample Dane	sam456@demo.in	dane456
	Sample Doe	sam123@demo.in	doe456
	Test Dane	test456@demo.in	test456
	Test Doe	test123@demo.in	test123
*	NULL	NULL	NULL

JUnit

Console when the Test Class is run

```
AuthenticationTest in 11.831 seconds (JVM running for 16.032)
Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.user_name=?
Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.email=?
Hibernate: select userentity0_.user_name as user_nam1_0_0_, userentity0_.email as email2_0_0_, userentity0_.password as
password3_0_0_ from user_entity userentity0_ where userentity0_.user_name=?
Hibernate: insert into user_entity (email, password, user_name) values (?, ?, ?)
Inside regTestSuccessReg().
This test has new user registration with unused email ID and username

Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.user_name=?
Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.email=?
Inside regTestUnsuccesfulReg1().
This test checks user registration with already used email ID and user
registration doesn't occur

Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.user_name=?
Inside regTestUnsuccesfulReg2().
This test checks user registration with already used email ID and user
registration doesn't occur

Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.user_name=? and userentity0_.password=?
Inside loginImmedAfterReg().
New User login just after registration...
Credentials are correct and Successful User login.

Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.user_name=? and userentity0_.password=?
Inside loginTestSuccessfulLogin().
Credentials are correct and Successful User login.
```

```
Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.user_name=? and userentity0_.password=?
Inside loginTestUnsuccessfulLogin1().
Username and Password are incorrect and User not logged in.

Hibernate: select userentity0_.user_name as user_nam1_0_, userentity0_.email as email2_0_, userentity0_.password as
password3_0_ from user_entity userentity0_ where userentity0_.user_name=? and userentity0_.password=?
Inside loginTestUnsuccessfulLogin1().
Username is valid but incorrect password and User not logged in.

Ending test methods.
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2023-06-17 15:05:52.675  INFO 11828 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA
EntityManagerFactory for persistence unit 'default'
2023-06-17 15:05:52.681  INFO 11828 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource        : HikariPool-1 - Shutdown
initiated...
2023-06-17 15:05:52.710  INFO 11828 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource        : HikariPool-1 - Shutdown
completed.
```

UserEntity (user_entity table) with User Details in the database after Successful Registration through Test Class

user_name	email	password
Random Me	random1@demo.in	leo123
Sample Dane	sam456@demo.in	dane456
Sample Doe	sam123@demo.in	doe456
Test Dane	test456@demo.in	test456
Test Doe	test123@demo.in	test123
NULL	NULL	NULL