

SpringBoot Add Users with Roles and Authorities

Updated SeedData.java

```
package org.studyeasy.SpringBlog.config;

import java.util.HashSet;
import java.util.List;
import java.util.Set;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
import org.studyeasy.SpringBlog.models.Account;
import org.studyeasy.SpringBlog.models.Authority;
import org.studyeasy.SpringBlog.models.Post;
import org.studyeasy.SpringBlog.services.AccountService;
import org.studyeasy.SpringBlog.services.AuthorityService;
import org.studyeasy.SpringBlog.services.PostService;
import org.studyeasy.SpringBlog.utils.constant.Privilages;
import org.studyeasy.SpringBlog.utils.constant.Roles;

@Component
public class SeedData implements CommandLineRunner {

    @Autowired
    private PostService postService;

    @Autowired
    private AccountService accountService;

    @Autowired
    private AuthorityService authorityService;

    @Override
    public void run(String... args) throws Exception {

        for (Privilages auth : Privilages.values()) {
            Authority authority = new Authority();
            authority.setId(auth.getId());
            authority.setName(auth.getPrivillage());
            authorityService.save(authority);
        }

        // Account
```

```
Account account01 = new Account();
Account account02 = new Account();
Account account03 = new Account();
Account account04 = new Account();

account01.setEmail("user@user.com");
account01.setPassword("pass987");
account01.setFirstname("User");
account01.setLastname("lastname");

account02.setEmail("admin@admin.com");
account02.setPassword("pass987");
account02.setFirstname("Admin");
account02.setLastname("lastname");
account02.setRole(Roles.ADMIN.getRole());

account03.setEmail("editor@editor.com");
account03.setPassword("pass987");
account03.setFirstname("Editor");
account03.setLastname("lastname");
account03.setRole(Roles.EDITOR.getRole());

account04.setEmail("super_editor@editor.com");
account04.setPassword("pass987");
account04.setFirstname("Editor");
account04.setLastname("lastname");
account04.setRole(Roles.EDITOR.getRole());

Set<Authority> authorities = new HashSet<>();
authorityService.findById(Privileges.RESET_ANY_USER_PASSWORD.getId()).ifPresent(authorities::add);
authorityService.findById(Privileges.ACCESS_ADMIN_PANEL.getId()).ifPresent(authorities::add);
account04.setAuthorities(authorities);

accountService.save(account01);
accountService.save(account02);
accountService.save(account03);
accountService.save(account04);

// Post
List<Post> posts = postService.getAll();
if (posts.size() == 0) {
    Post post01 = new Post();
```

```

        post01.setTitle("Post01");
        post01.setBody("Post 01 Body .....");

        // added
        post01.setAccount(account01);
        postService.save(post01);

        Post post02 = new Post();
        post02.setTitle("Post02");
        post02.setBody("Post 02 Body .....");

        // added
        post02.setAccount(account02);
        postService.save(post02);
    }
}
}

```

Updated AuthorityService.java

```

package org.studyeasy.SpringBlog.services;

import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.studyeasy.SpringBlog.models.Authority;
import org.studyeasy.SpringBlog.repositories.AuthorityRepository;

@Service
public class AuthorityService {

    @Autowired
    private AuthorityRepository authorityRepository;

    public Authority save(Authority authority){
        return authorityRepository.save(authority);
    }

    public Optional<Authority> findById(Long id){
        return authorityRepository.findById(id);
    }
}

```

Output

g

Run

Run Selected

Auto complete

Clear

SQL statement:

SELECT * FROM ACCOUNT

SELECT * FROM ACCOUNT;

ID	EMAIL	FIRSTNAME	LASTNAME	PASSWORD	ROLE
1	user@user.com	User	lastname	\$2a\$10\$E0/g7wX7q2Lw58ajbIT4aebgLZz8FSb/qWdPi0dSTULdBfCV8y5ea	ROLE_USER
2	admin@admin.com	Admin	lastname	\$2a\$10\$a33d.RPC3yP7fMpynnSjWOS8qNTAijXVpFb6biGZ4X9aPHr.6QYum	ROLE_USER
3	editor@editor.com	Editor	lastname	\$2a\$10\$AuSdO1nLFKzsHRowp9K7g.dKo9SvKIYpHyd8pyUq2n3k66k7l0I5a	ROLE_USER
4	super_editor@editor.com	Editor	lastname	\$2a\$10\$IZUy6Dz843QzYWkmBf.veH5CIVWG7Ud1L0QdyQ9odl1/DfA77sWe	ROLE_USER

(4 rows, 0 ms)

localhost:8080/db-console/login.do?sessionId=ab9877b4ff4eea1109adba4aed20183

Auto commit

Max rows: 1000

Auto complete

Auto select

SQL statement:

SELECT * FROM ACCOUNT_AUTHORITY

SELECT * FROM ACCOUNT_AUTHORITY;

ACCOUNT_ID	AUTHORITY_ID
4	1
4	2

(2 rows, 6 ms)

Edit

localhost:8080/db-console/login.do?sessionId=ab9877b4ff4eea1109adba4aed20183

Auto commit

Max rows: 1000

Auto complete

Auto select

SQL statement:

SELECT * FROM AUTHORITY

SELECT * FROM AUTHORITY;

ID	NAME
1	RESET_ANY_USER_PASSWORD
2	ACCESS_ADMIN_PANEL

(2 rows, 0 ms)

Edit

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localhost8080/db-console/login.do?jsessionId=ab9877b4ff4eea1109addba4aed20183

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🔑

☒ Auto commit

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🔍

🛑

Max rows: 1000

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🔧

Auto complete Off

Auto select On

?

📄 jdbc:h2:file:C:/Users/dinit/db/blog

Run

Run Selected

Auto complete

Clear

SQL statement:

📁 ACCOUNT

📁 ACCOUNT_AUTHORITY

📁 AUTHORITY

📁 POST

📁 INFORMATION_SCHEMA

📁 Sequences

📁 Users

📁 H2 2.2.224 (2023-09-17)

SELECT * FROM POST

SELECT * FROM POST;

ACCOUNT_ID	CREATED_AT	ID	BODY	TITLE
1	2024-07-07 18:17:32.544002	1	Post 01 Body	Post01
2	2024-07-07 18:17:32.559625	2	Post 02 Body	Post02

(2 rows, 1 ms)

Edit