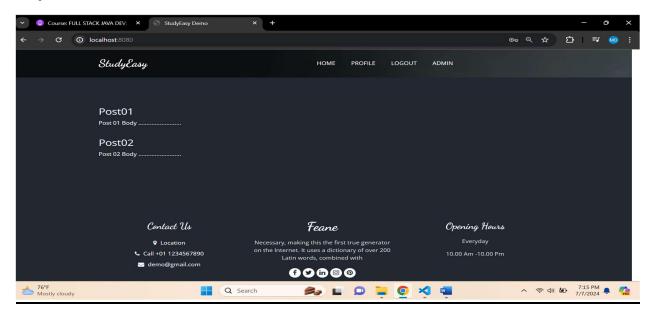
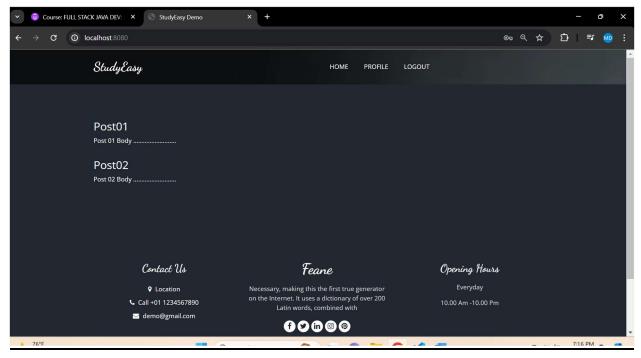
## <u>SpringBoot - Application has bugs Add security rules for Roles and Authorities</u>

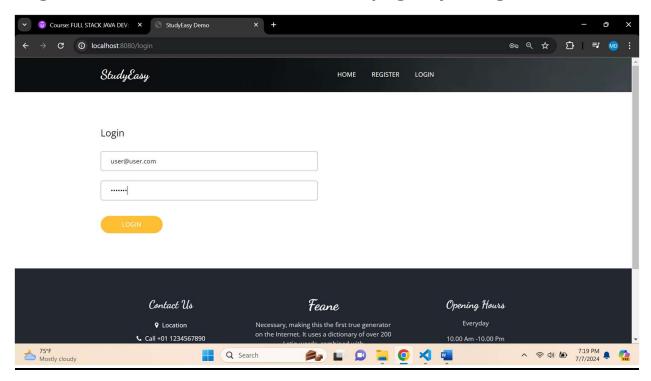
Super Editor can see admin but not editor.



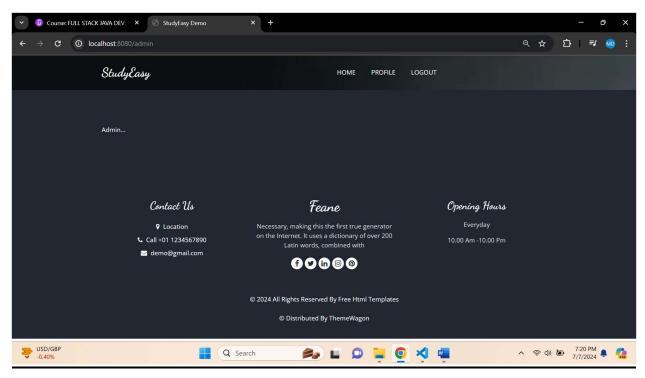
#### Editor cannot see admin.



### Login as User -> Then access Admin page by using URL



## You will be able to access Admin Page



### Add this below line in HomeController.java

```
@GetMapping("/editor")
  public String editor(Model model){
    return "editor";
}
```

### editor.html

```
<!DOCTYPE html>
<html>
<head th:replace="/fragments/head :: head">
<body class="sub_page">
 <div class="hero area">
   <div class="bg-box">
     <img src="images/nav-bg.jpg" alt="">
   <!-- header section strats -->
   <header th:replace="/fragments/header :: header">
      <!-- end header section -->
  </div>
  <!-- about section -->
  <section class="about_section layout_padding">
   <div class="container ">
        Editor...
   </div>
  </section>
  <!-- end about section -->
  <!-- footer section -->
  <footer th:replace="/fragments/footer :: footer">
   <!-- footer section -->
</body>
</html>
```

### WebSecurityConfig.java

```
package org.studyeasy.SpringBlog.security;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.Customizer;
import
org.springframework.security.config.annotation.method.configuration.EnableMethodS
ecurity;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
org.springframework.security.config.annotation.web.configuration.EnableWebSecurit
import org.springframework.security.crypto.bcrypt.BCryptPasswordEncoder;
import org.springframework.security.crypto.password.PasswordEncoder;
import org.springframework.security.web.SecurityFilterChain;
@Configuration
@EnableWebSecurity
@EnableMethodSecurity(prePostEnabled = true, securedEnabled = true)
public class WebSecurityConfig {
        private static final String[] WHITELIST = {
                        "/login",
                        "/register",
                        "/db-console/**",
                        // Allow all the css and other resources
                        "/css/**",
                        "/fonts/**",
                        "/images/**",
                        "/js/**"
        };
        @Bean
        public static PasswordEncoder passwordEncoder() {
                return new BCryptPasswordEncoder();
        }
        public SecurityFilterChain filterChain(HttpSecurity http) throws
Exception {
                http
                                 .authorizeHttpRequests(auth -> auth
```

```
.requestMatchers(WHITELIST)
                                                 .permitAll()
                                                 .anyRequest()
                                                 .authenticated())
                                 .formLogin(formLogin -> formLogin
                                                 .loginPage("/login")
                                                 .loginProcessingUrl("/login")
                                                 .usernameParameter("email")
                                                 .passwordParameter("password")
                                                 .defaultSuccessUrl("/", true)
                                                 .failureUrl("/login?error")
                                                 .permitAll())
                                 .logout(logout -> logout
                                                 .logoutUrl("/logout")
                                                 .logoutSuccessUrl("/")
                                                 .permitAll())
                                 .httpBasic(Customizer.withDefaults()); // Enable
HTTP Basic authentication
                // TODO: remove these files after upgrading the DB from h2 infile
                http.csrf(csrf -> csrf.disable());
                // Disable frame options
                http.headers(headers -> headers.frameOptions(frameOptions ->
frameOptions.disable()));
                return http.build();
        }
```

# Make some modifications in WebSecurityConfig.java Change below line

### <u>To</u>

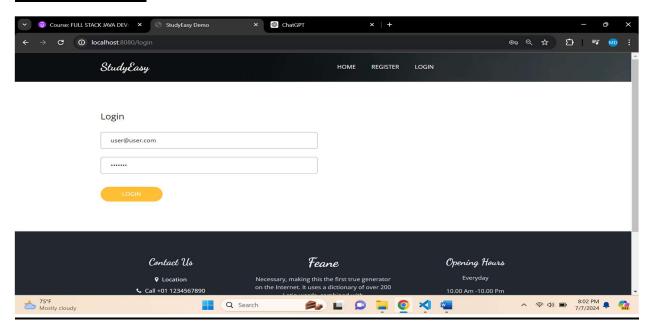
### In AccountController.java, add below line

```
@GetMapping("/profile")
    public String profile(Model model) {
        return "profile";
    }

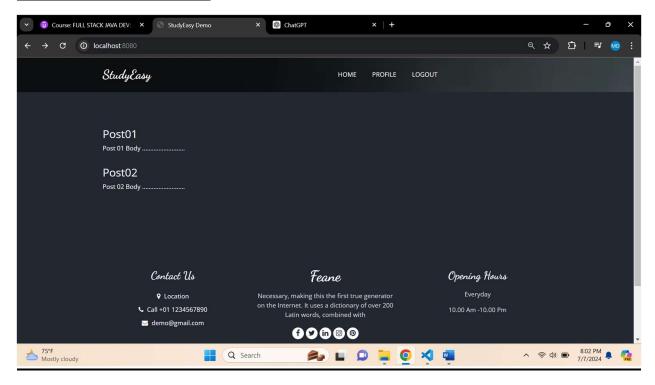
@GetMapping("/test")
    public String test(Model model) {
        return "test";
    }
```

### **Output**

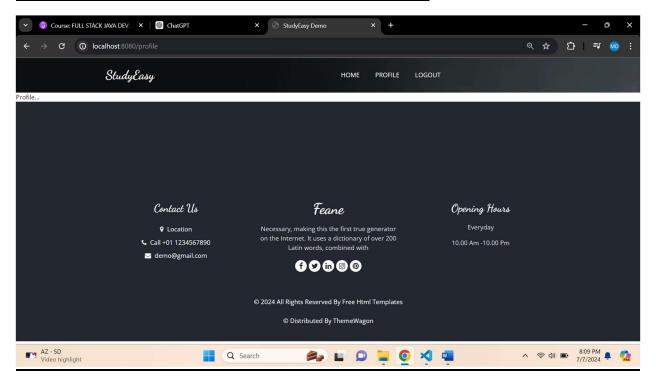
### **Login as User**



### You get below page



### Click on profile link -> You get below page



User -> Has access to profile

Admin -> access to admin but editor access

Supereditor -> access to admin and editor

Editor -> no access to admin

hasManyRoles and hasManyAuthorities -> many roles and authorities.