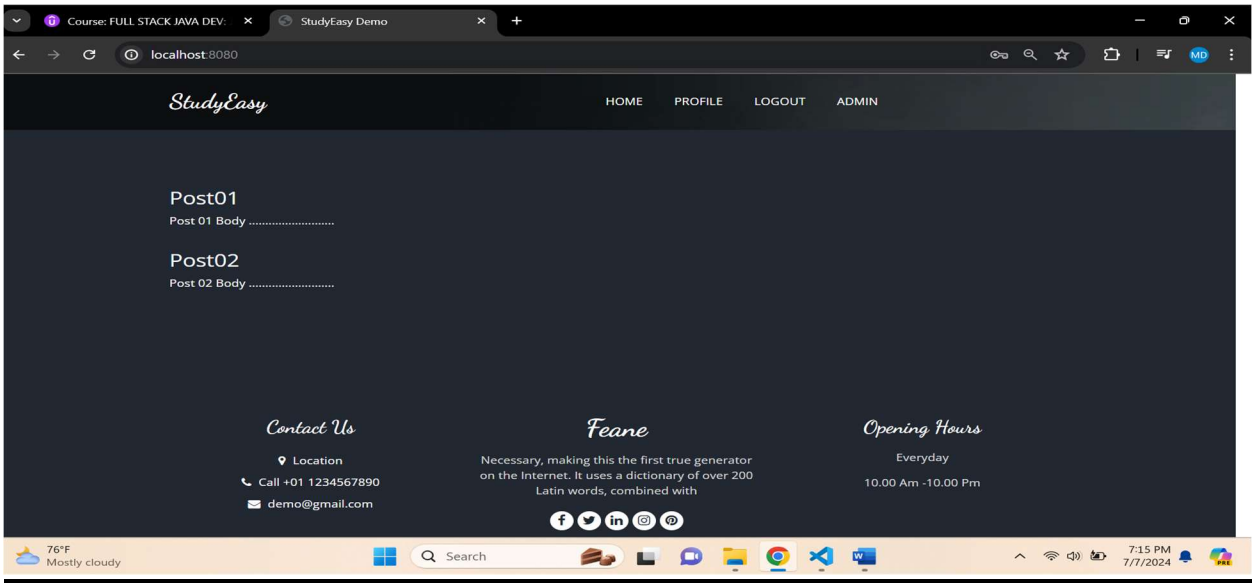
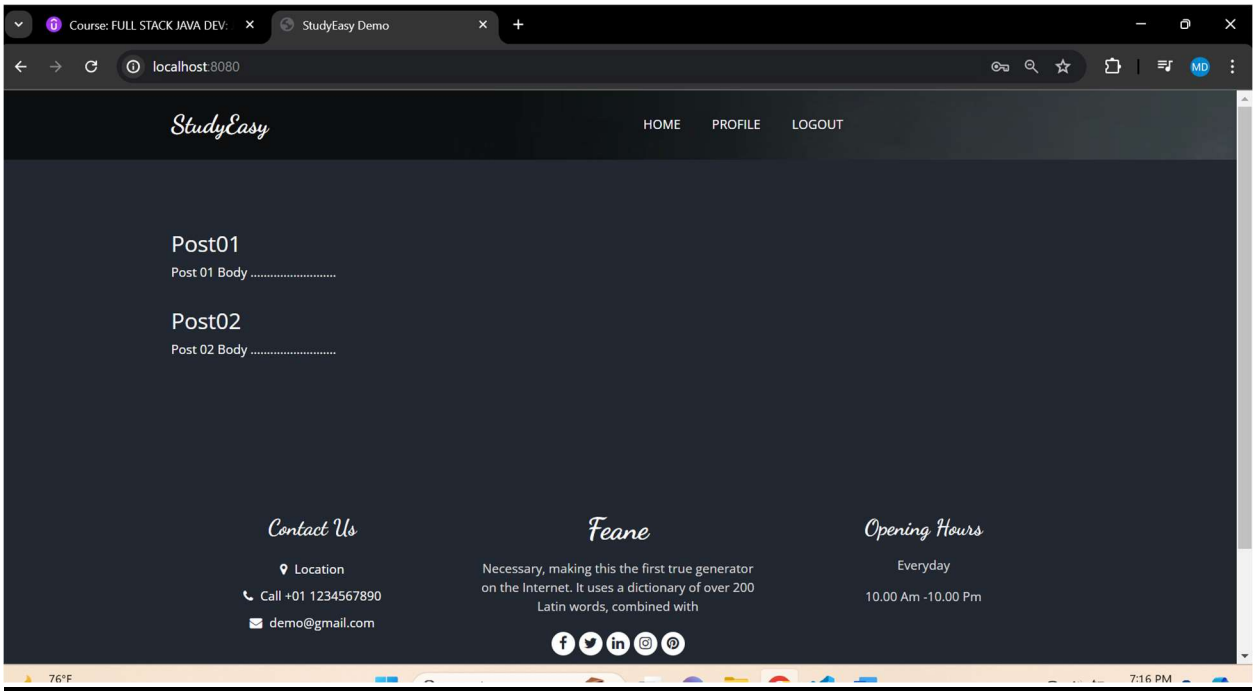
SpringBoot - Application has bugs Add security rules for Roles and Authorities

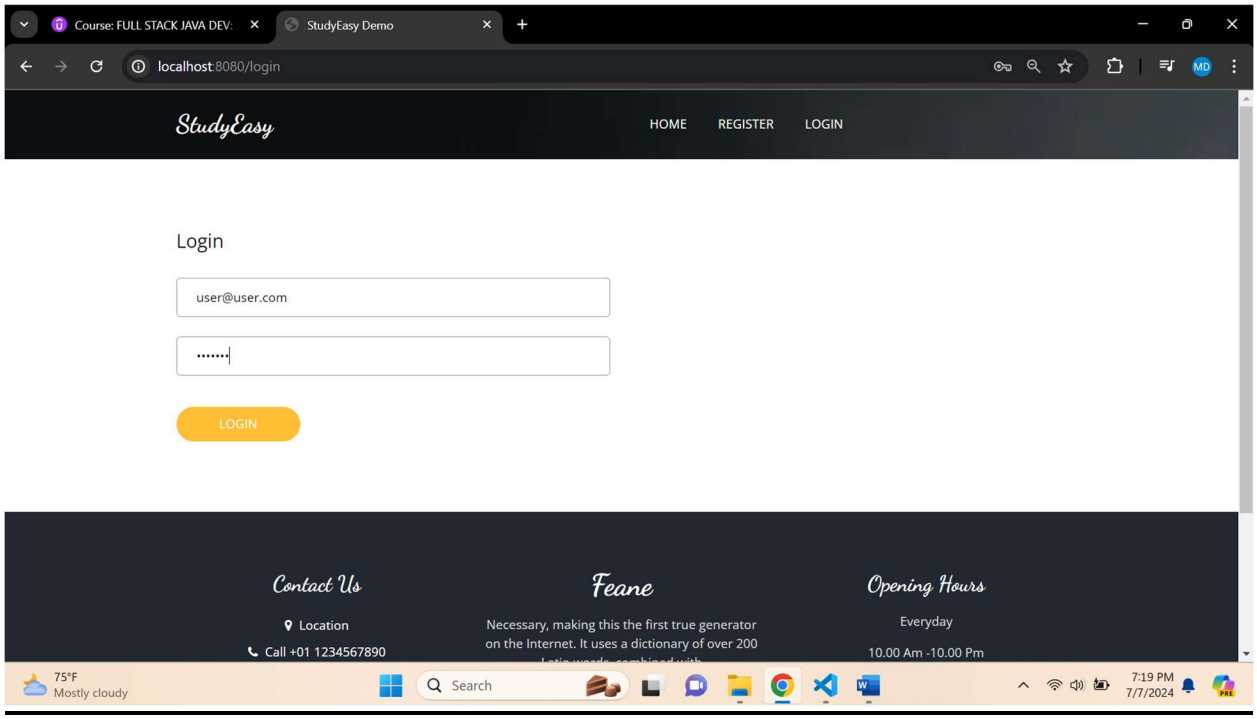
Super Editor can see admin but not editor.



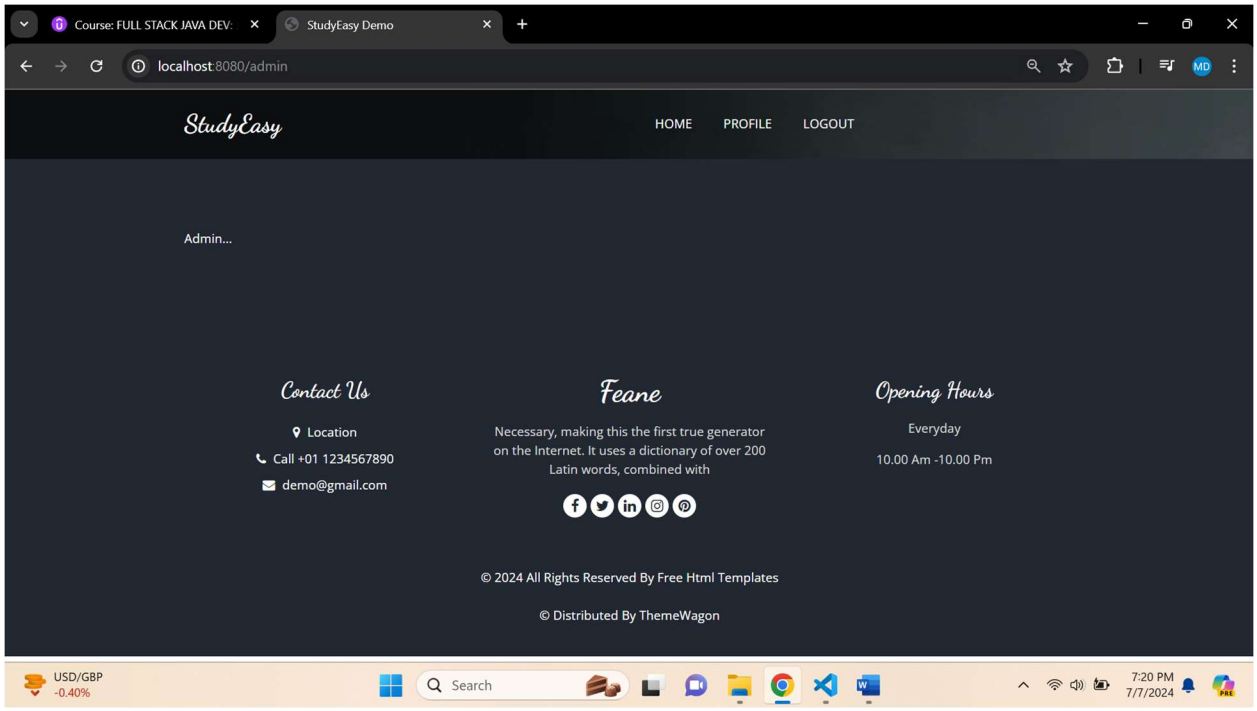
Editor cannot see admin.



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="">
    </div>
    <!-- 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;
import
org.springframework.security.config.annotation.web.configuration.EnableWebSecurit
y;
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();
        }

        @Bean
        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
DB
                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

```
http
                                .authorizeHttpRequests(auth -> auth
                                                .requestMatchers(WHITELIST)
                                                .permitAll()
                                                .anyRequest()
                                                .authenticated())
```

To

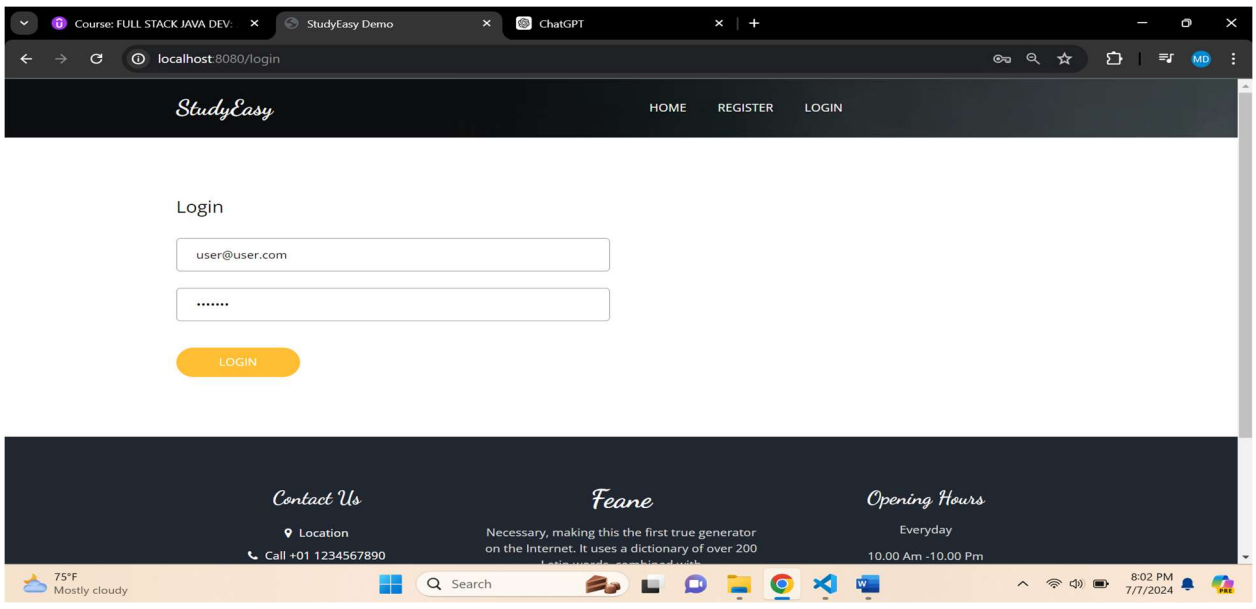
```
 .authorizeHttpRequests(auth -> auth
        .requestMatchers(WHITELIST).permitAll()
        .requestMatchers("/profile/**").authenticated()
        .requestMatchers("/admin/**").hasRole("ADMIN")
        .requestMatchers("/editor/**").hasAnyRole("ADMIN", "EDITOR")
        .requestMatchers("/test").hasAuthority(Privilages.ACCESS_ADMIN_PANEL.getP
rivillage()))
```

In AccountController.java, add below line

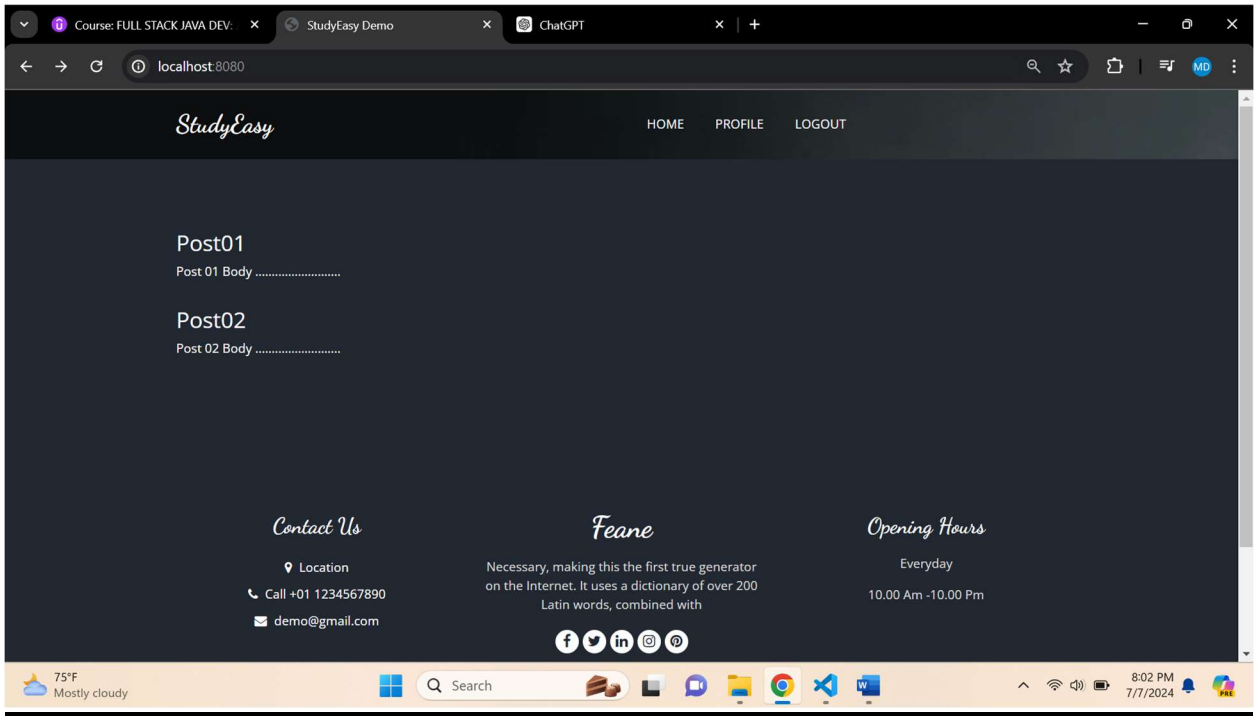
```
@GetMapping("/profile")
    public String profile(Model model) {
        return "profile";
    }

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

Output

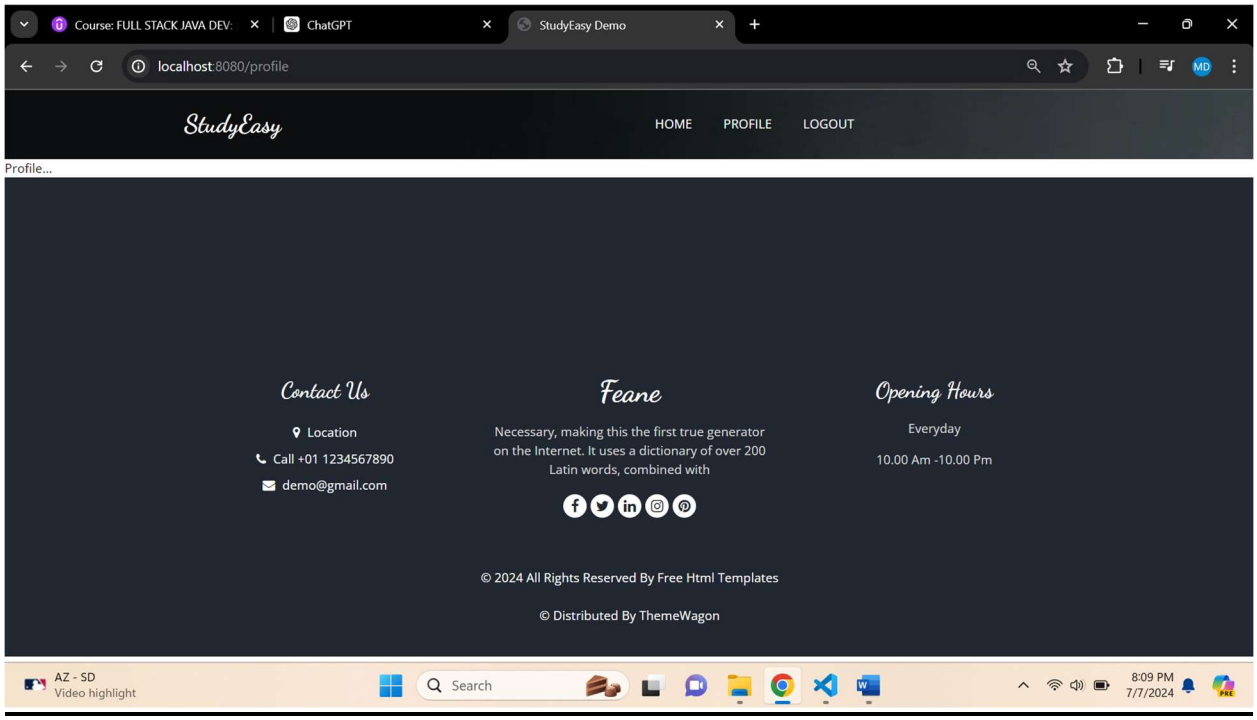
Login as User



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.