## SpringBoot Adding Spring Security Login, AddingRules and BcryptPassword

## WebSecurityConfig.java

```
package org.studyeasy.SpringStarter.config;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.config.Customizer;
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();
```

```
@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("/logout?success")
                     .permitAll())
                   // Enable HTTP Basic authentication
                     .httpBasic(Customizer.withDefaults());
                // 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();
```

## AccountService.java -> Updated

```
public class AccountService {
    @Autowired
    private AccountRepository accountRepository;

@Autowired
    private PasswordEncoder passwordEncoder;

public Account save(Account account){
        account.setPassword(passwordEncoder.encode(account.getPassword()));
        return accountRepository.save(account);
    }
}
```

## **Output:-**

