#### SECURITY CONFIGURATION

**GENT** 

UNIVERSITEIT

```
@Configuration
                                                          Datasource for saving credentials
@EnableMethodSecurity(securedEnabled = true)
public class SecurityConfig {

▲ Miel Verkerken

    @Bean
    public DataSource datasource() {...};
                                                                    Configure credentials using
                                                                    UserDetailsManager
    // Configuration for jdbc authentication

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    @Bean
    public UserDetailsManager users(DataSource datasource) {...}
    @Bean
    public SecurityFilterChain filterChain(HttpSecurity http) throws Exception {...}
                                                 Configure the filterChain
```

### <u>AUTHORIZING URL</u>

**GFNT** 

- Define specific authorization restrictions for URLs
- Support "Ant-style" pattern matching
  - "/admin/\*" only matches "/admin/xxx"
  - "/admin/\*\*" matches any path under /admin
    - Such as "/admin/database/access-control"

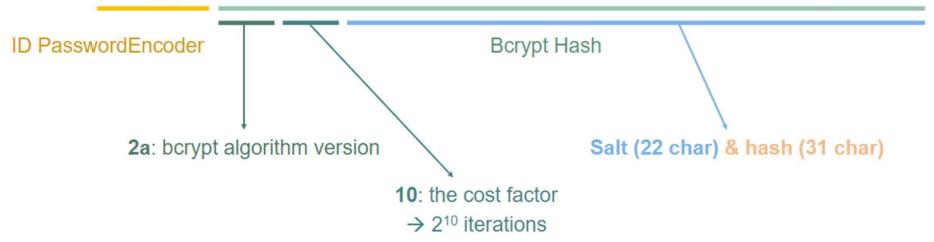
## CHALLENGES PASSWORD ENCODING (1)

- Should be future proof
  - Secure today is not secure tomorrow
  - New encoding schemes emerge in the future
- Should accommodate old password formats
  - Co-exist new and old format passwords
- DelegatingPasswordEncoder
  - {id}encodedPassword
  - {bcrypt}\$2a\$10\$dXJ3SW6G7P50IGmMkkmwe...fqvM/BG



#### CHALLENGES PASSWORD ENCODING (2)

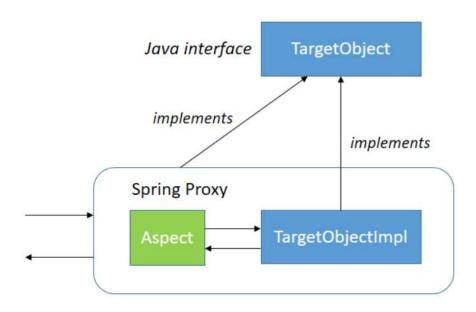
#### {bcrypt}\$2a\$10\$dXJ3SW6G7P50IGmMkkmwe...fqvM/BG





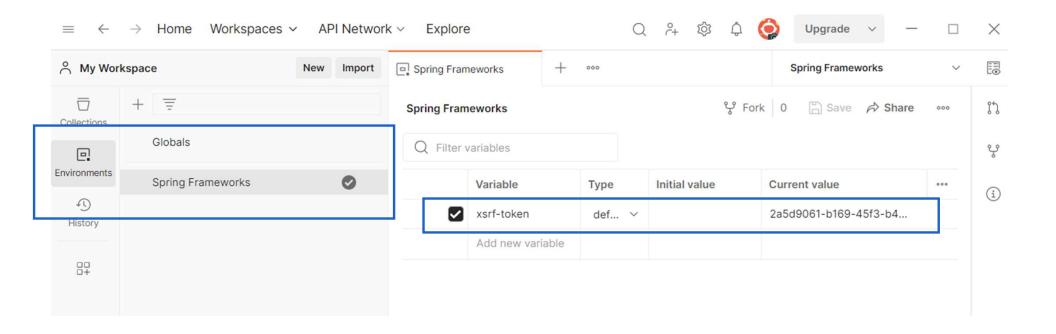
### METHOD SECURITY

- Spring Security uses AOP for method-level security
  - Annotations: either Spring's own or JSR-250
- Spring uses a AOP Proxy



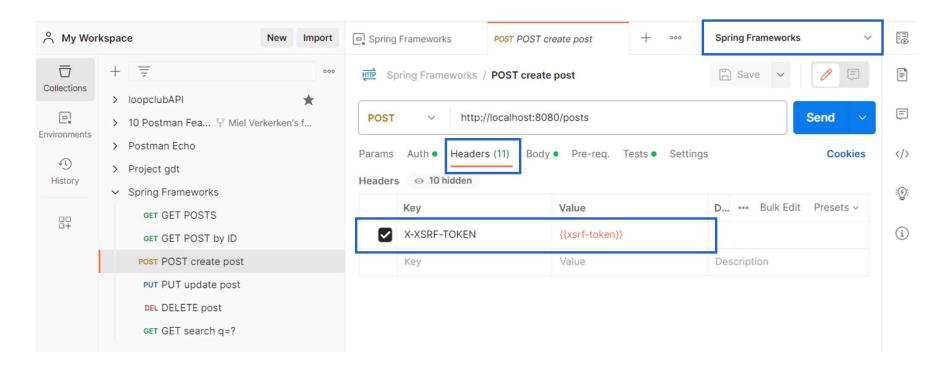


## **CSRF TOKEN IN POSTMAN (1)**



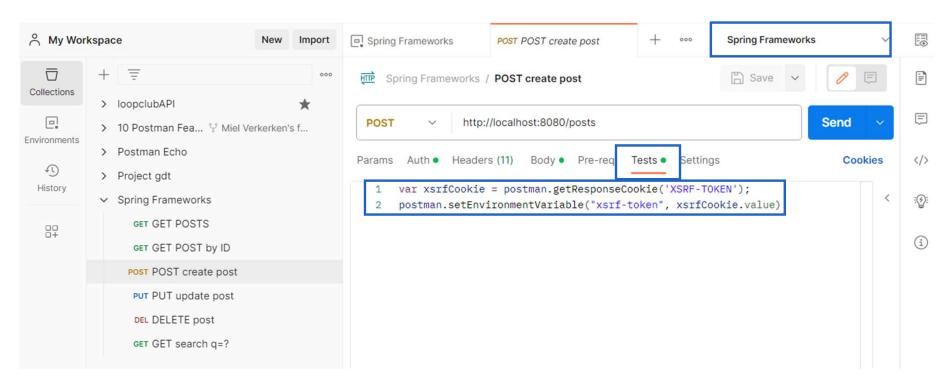


# CSRF TOKEN IN POSTMAN (2)





# CSRF TOKEN IN POSTMAN (3)





#### ZOEK FUNCTIONALITEIT

```
/**
  * Search for blogPost based on keywords
  */
@GetMapping("/posts/search")
public List<BlogPost> searchPosts(@RequestParam(name = "q") String keyword) {
    return postDAO.searchPostsByTitleContaining(keyword);
}
```

Controller

DAO

```
@Override
public List<BlogPost> searchPostsByTitleContaining(String keyword) {
    return repository.findByTitleContaining(keyword);
}
```

```
public interface BlogPostRepository extends JpaRepository<BlogPost, Long> {
    List<BlogPost> findByTitleContaining(String keyword);
}
```

Repository

