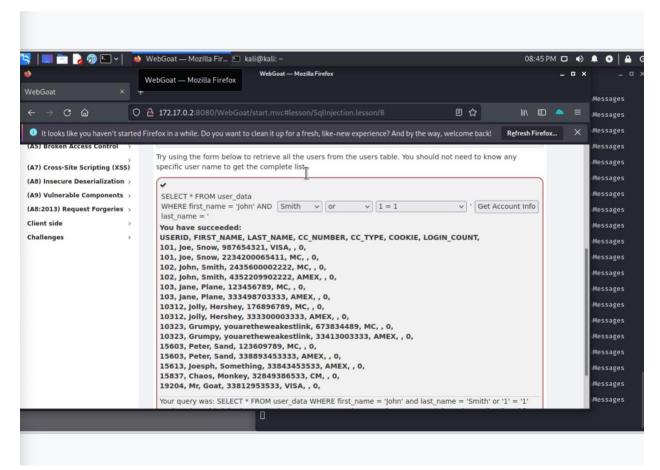
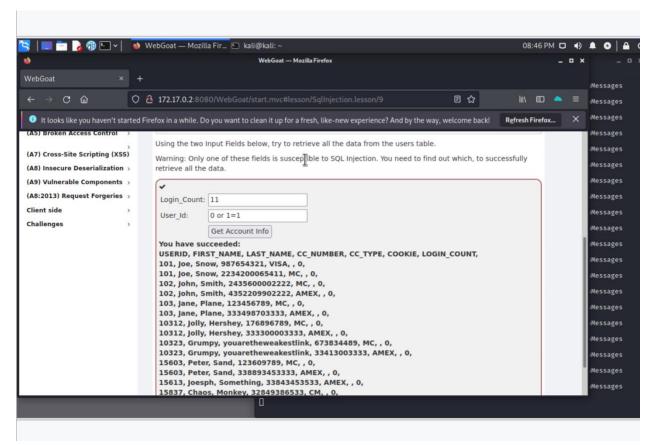
Peter Sanford IT 2700 NetLab Lab 3 9/16/2023

## 1.1: Step 4:

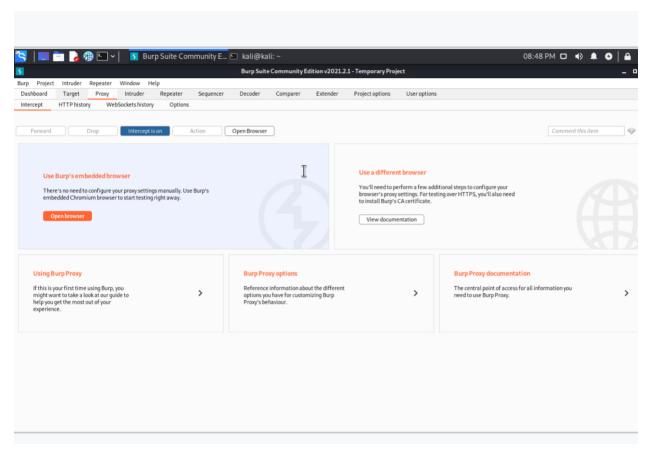
```
08:39 PM 🗖 🌓 🛕 🚱
                                            kali@kali: ~
File Actions Edit View Help
2023-09-17 01:39:06.220 INFO 30 --- [
                                                  main] org.hibernate.dialect.Dialect
 : HHH000400: Using dialect: org.hibernate.dialect.HSQLDialect
2023-09-17 01:39:08.143 INFO 30 --- [
                                                  main] o.h.e.t.j.p.i.JtaPlatformInitiator
: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.
internal.NoJtaPlatform]
2023-09-17 01:39:08.174 INFO 30 --- [
                                                 main] j.LocalContainerEntityManagerFactoryBean
 : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-09-17 01:39:10.147 WARN 30 --- [
                                                 main] o.o.webgoat.lessons.CourseConfiguration
 : Lesson: webgoat.title has no endpoints, is this intentionally?
2023-09-17 [1:39:10.335 WARN 30 --- [ main] JpaBaseConfiguration$JpaWebConfiguration spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed
                                                 main] JpaBaseConfiguration$JpaWebConfiguration
during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2023-09-17 01:39:10.723 INFO 30 --- [
                                                 main] o.s.s.web.DefaultSecurityFilterChain
: Will secure any request with [org.springframework.security.web.context.request.async.WebAsyn
cManagerIntegrationFilter@3b7eac14, org.springframework.security.web.context.SecurityContextPer
sistenceFilter@167381c7, org.springframework.security.web.header.HeaderWriterFilter@41184371, o
rg.springframework.security.web.authentication.logout.LogoutFilter@17aa8a11, org.springframewor
k.security.web.authentication.UsernamePasswordAuthenticationFilter@221a2068, org.springframewor
k.security.web.savedrequest.RequestCacheAwareFilter@56382bc9, org.springframework.security.web.
servletapi.SecurityContextHolderAwareRequestFilter@7c51782d, org.springframework.security.web.a
uthentication.AnonymousAuthenticationFilter@4976085, org.springframework.security.web.session.S
essionManagementFilter@76a805b7, org.springframework.security.web.access.ExceptionTranslationFi
lter@326e0b8e, org.springframework.security.web.access.intercept.FilterSecurityInterceptor@77f9
2023-09-17 01:39:18.818 INFO 30 --- [
                                                  main] o.s.s.concurrent.ThreadPoolTaskExecutor
: Initializing ExecutorService 'applicationTaskExecutor'
                                                 main] o.s.b.a.e.web.EndpointLinksResolver
2023-09-17 01:39:19.418 INFO 30 --- [
 : Exposing 2 endpoint(s) beneath base path '/actuator
2023-09-17 01:39:19.504 INFO 30 --- [
                                                  main] io.undertow
 : starting server: Undertow - 2.2.4.Final
2023-09-17 01:39:19.520 INFO 30 --- [
                                                  main] org.xnio
 : XNIO version 3.8.0.Final
2023-09-17 01:39:19.533 INFO 30 --- [
                                                  main] org.xnio.nio
 : XNIO NIO Implementation Version 3.8.0.Final
2023-09-17 01:39:19.722 INFO 30 -
                                                  main] org.jboss.threads
 : JBoss Threads version 3.1.0.Final
2023-09-17 01:39:19.798 INFO 30 --- [
                                                 main] o.s.b.w.e.undertow.UndertowWebServer
 : Undertow started on port(s) 8080 (http) with context path '/WebGoat
2023-09-17 01:39:19.815 INFO 30 --- [
                                                  main] org.owasp.webgoat.StartWebGoat
: Started StartWebGoat in 31.357 seconds (JVM running for 38.293)
```



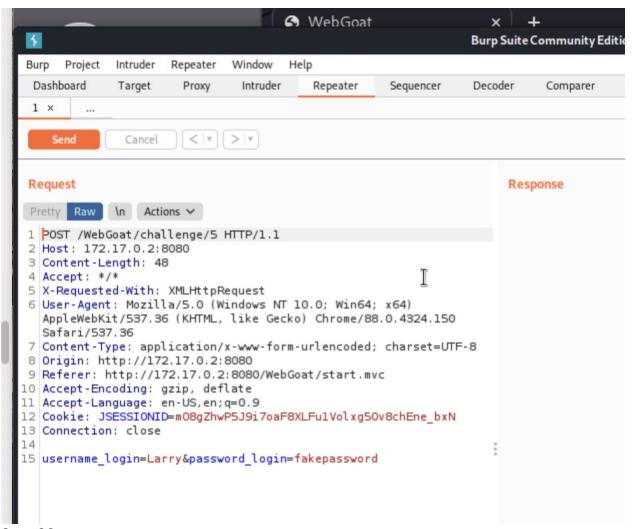
Step 16:



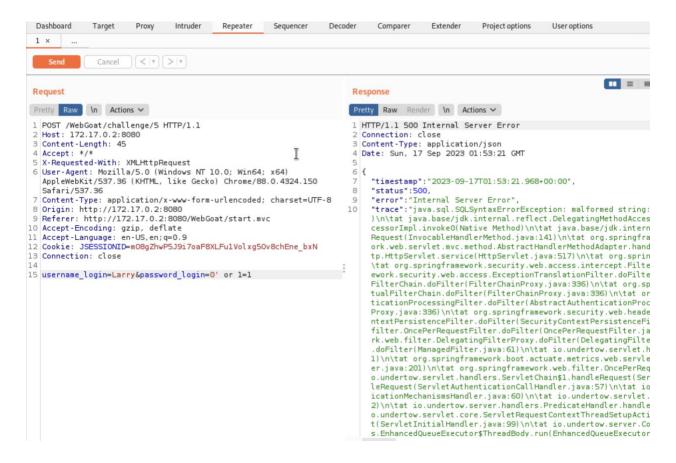
Step 21:



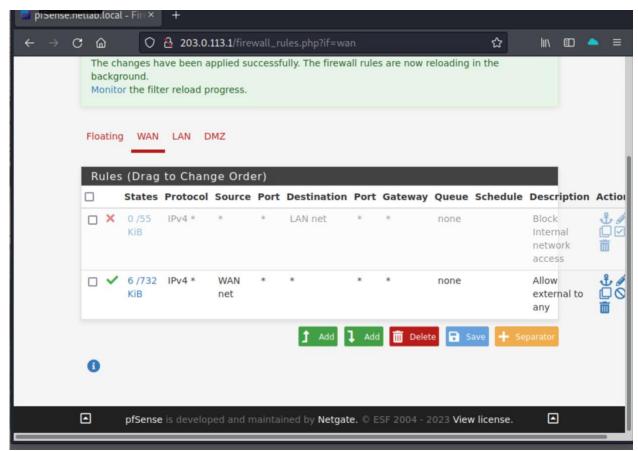
Step 28:



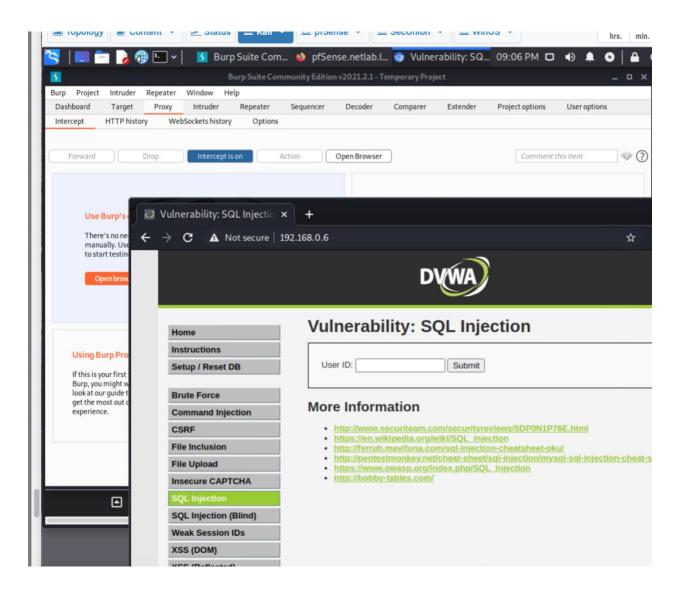
**Step 32:** 



## 1.2: Step 9:



Step 21:



Step 35:

```
pfSense.netlab.local - Fi... E kali@kali: ~
                               kali@kali: ~
                                                                      □ X
File Actions Edit View Help
                   /hackable/users/1337.jpg
          1337
                                                 8d3533d75ae2c3966d7e0d
4fcc69216b (charley) | Me
                                              | 2023-09-17 02:02:24 | 0
                                  Hack
                    /hackable/users/pablo.jpg
           pablo
                                                 0d107d09f5bbe40cade3de
5c71e9e9b7 (letmein)
                     Picasso
                                Pablo
                                              2023-09-17 02:02:24 | 0
                   /hackable/users/smithy.jpg
                                                 | 5f4dcc3b5aa765d61d8327
           smithy
deb882cf99 (password) | Smith | Bob
                                                2023-09-17 02:02:24 | 0
[21:12:54] [INFO] table 'dvwa.users' dumped to CSV file '/home/kali/.local
/share/sqlmap/output/192.168.0.6/dump/dvwa/users.csv'
[21:12:54] [INFO] fetched data logged to text files under '/home/kali/.loc
al/share/sqlmap/output/192.168.0.6'
[21:12:54] [WARNING] your sqlmap version is outdated
[*] ending @ 21:12:54 /2023-09-16/
   (kali⊕kali)-[~]
```

## Commentary:

In this lab we used some web application hacking strategies to get database information and cracking passwords. SQL injection gave us all of the database's entries listed, and we used SQLmap to password crack the DVWA database. I learned that there's a lot of things hackers can use to get into your system, many I didn't even think about trying. I will keep these vulnerabilities in mind in my career, especially if it's going to be my job to secure these types of things. Knowing this information, companies are a lot more capable to know how to secure their networks so that people can't use these vulnerabilities against them. It also shows just how important cybersecurity is nowadays.