



SQL

injection



@codechips

▶ Cody Dev

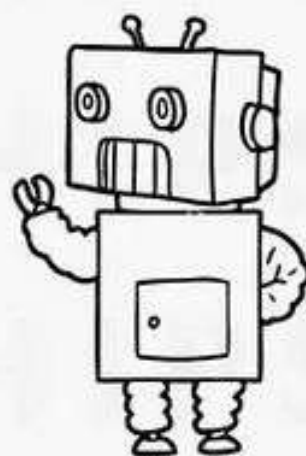
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Lets say you have a Robot

Whose job is to buy things from
the store and bring it to you





But it can't function by itself

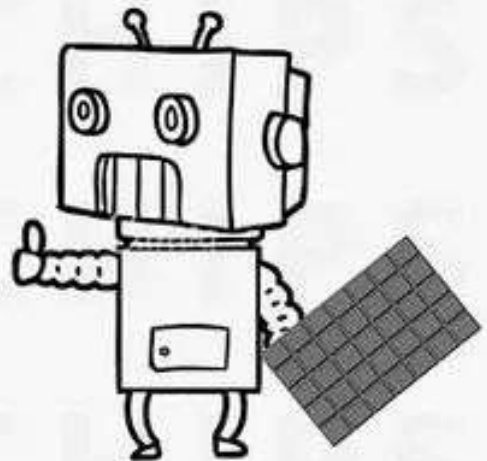
You need to pass commands along with values to make it do the work

command

Buy chocolates , Come home

value

1. Buy chocolates
2. Come home

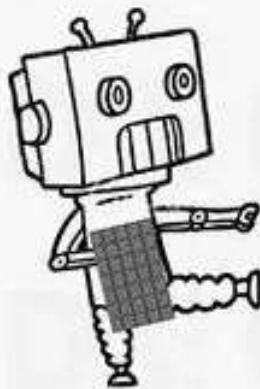




Great ,

But what if someone adds unusual values to the command ?

Buy chocolates and beat the shop owner ,
Come home

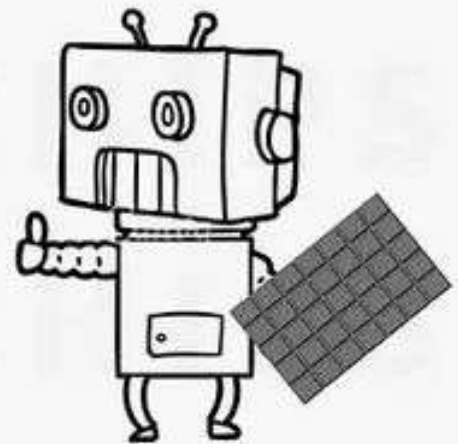




The reason this happened is,

The Robot cannot differentiate
between instructions and data

- 1 . Buy chocolates
- 2 . Beat shop owner
- 3 . Come home





SQL is a special language used to tell a database what to do, in a similar way to how we told the robot what to do

eg:

username :

username

password :

password

SQL query

```
SELECT * FROM login_details WHERE  
username='username' AND password='password'
```




SQL injection is a web hacking technique by placing malicious code in SQL statements, via web page input

eg:

username :

username

password :

password' OR 1 = 1 --

comments the
rest of the query

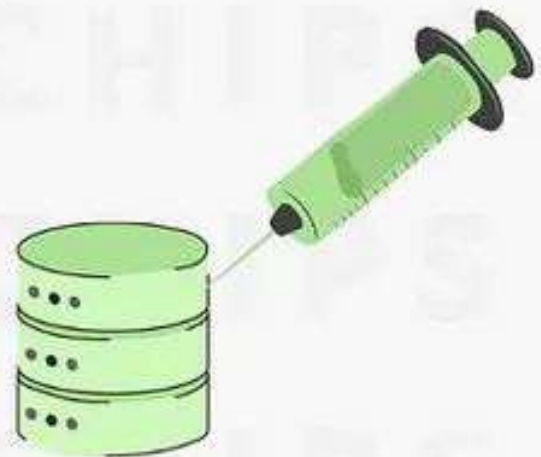
```
SELECT * FROM login_details WHERE  
username='username' AND password='password' OR 1 = 1 -- '
```

1 = 1 is always true



This will make the hacker login to the website through SQL injection

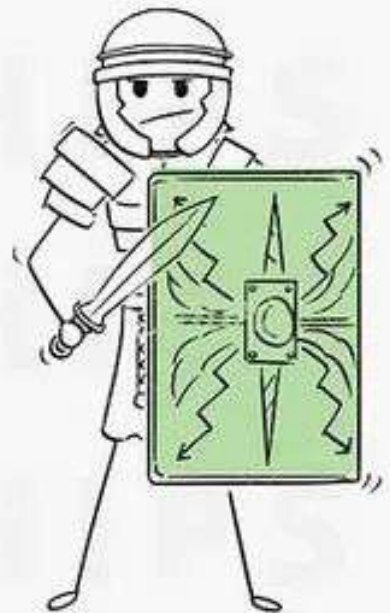
A successful SQL injection exploit can read sensitive data from the database, modify database data (viz., insert, update, or delete), etc.





Prevention ?

- Input validation
- Parametrized queries
- Stored procedures
- Escaping
- Avoiding administrative privileges
- Web application firewall





Here is your chocolate
along with police complaint

