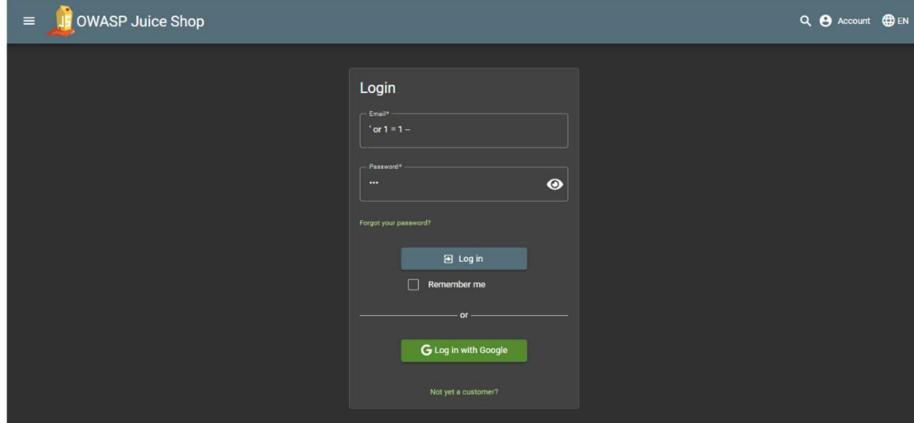
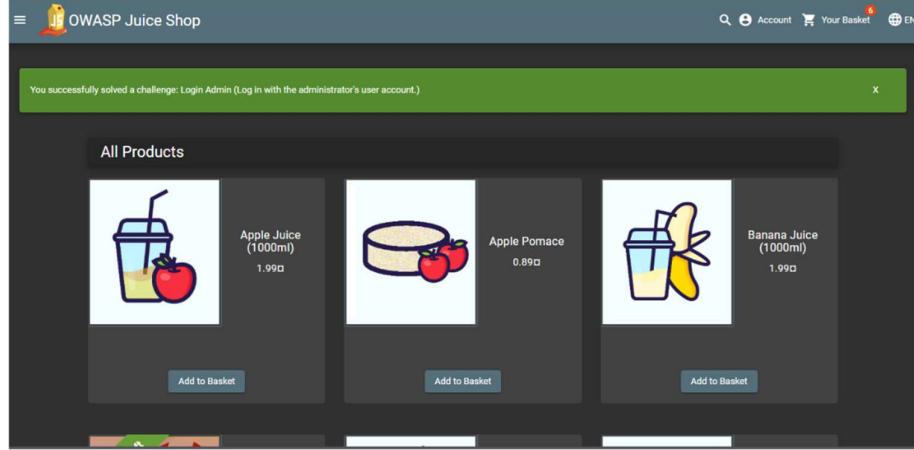
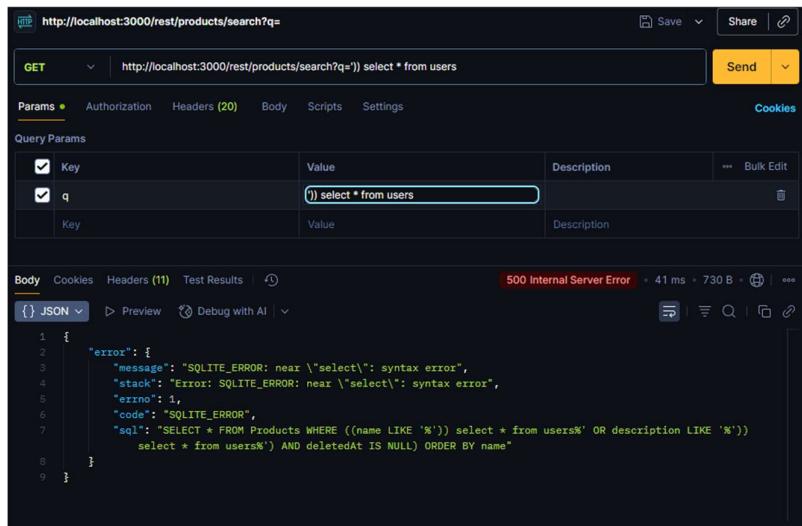


	Haryo Arief Wicaksono
1.	Ditemukan celah keamanan saat log in dengan memasukkan script SQL
	<p>Bukti Screenshot:</p>  <p>The screenshot shows the OWASP Juice Shop login interface. In the 'Email*' field, the value "' or 1 = 1 " has been entered, which is a common SQL injection payload. Below the form, a success message reads: "You successfully solved a challenge: Login Admin (Log in with the administrator's user account.)".</p>  <p>The screenshot shows the product list page after a successful login. It displays three items: Apple Juice (1000ml) for 1.99, Apple Pomace for 0.89, and Banana Juice (1000ml) for 1.99. Each item has an 'Add to Basket' button.</p>
	<p><b>Root Cause Analysis:</b> Penyebabnya diduga karena terdapat sql injection di dalam kodingan.</p> <p><b>Recommendation:</b> Gunakan bind parameter atau replacement saat melakukan query ke dalam database.</p> <p><b>Verification scenario:</b> Tidak akan lagi bisa melakukan SQL injection. Dan login jadi lebih terjaga.</p>

2.	Ditemukan SQL Injection di API Kolom Search. Struktur database jadi terlihat kalau error. Dan dapat dieksplorasi untuk mendapatkan data yang seharusnya tidak dipublikasikan.
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Bukti Screenshot:



The screenshot shows a POSTMAN interface with a GET request to `http://localhost:3000/rest/products/search?q=`. In the 'Params' tab, there is a 'q' parameter set to `() select * from users`. The response status is 500 Internal Server Error, with a response body containing JSON error details:

```

1 {
2   "error": {
3     "message": "SQLITE_ERROR: near \\\"select\\\": syntax error",
4     "stack": "Error: SQLITE_ERROR: near \\\"select\\\": syntax error",
5     "errno": 1,
6     "code": "SQLITE_ERROR",
7     "sql": "SELECT * FROM Products WHERE ((name LIKE '%')) select * from users% OR description LIKE '%') select * from users%') AND deletedAt IS NULL) ORDER BY name"
8   }
9 }
```

Root Cause Analysis:

Penyebabnya diduga karena terdapat sql injection di dalam kodingan.

Recommendation:

Gunakan bind parameter atau replacement saat melakukan query ke dalam database.

Verification Scenario:

Tidak akan bisa melakukan SQL Injection lagi. Dan keamanan database lebih terjaga.