When trying to login, the user gets this error.

UnboundLocalError

UnboundLocalError: local variable 'stored_salt' referenced before assignment

```
Traceback (most recent call last)

File "/workspace/.pip-modules/lib/python3.8/site-packages/flask/app.py", line 2464, in __call__
return self.wsgi_app(environ, start_response)
```

Fix attempt 1: Indentation means the script is ran before the value is retrieved.

```
print(stored_password)
    if k == 'salt':
        stored_salt = v
        print(stored_salt)

hash_login_password = hashlib.pbkdf2_hmac(
    'sha256', # The hash digest algorithm for HMAC
    login_password.encode('utf-8'), # Convert the password to bytes
    stored_salt, # Provide the salt
    190000, # It is recommended to use at least 100,000 iterations of SHA-256
    dklen=128 # Get a 128 byte key
)
print(hash_login_password)
```

This did not resolve the issue as the if function then didn't pass.

TypeError

TypeError: The view function did not return a valid response. The function either returned None or ended without a return statement.

Traceback (most recent call last)

```
if k == 'salt':
    stored_salt = v
    print("this is the salt")
    print(stored_salt)

hash_login_password = hashlib.pbkdf2_hmac(
    'sha255', # The hash digest algorithm for HMAC
    login_password.encode('utf-8'), # Convert the password to bytes
    stored_salt, # Provide_the_salt
    100000, # It is recommended to use at least 100,000 iterations of SHA-256
    dklen=128 # Get a 128 byte key
    )
    print[hash_login_password]

if stored_password == hash_login_password:
    print("match")
    return "done"
    # return render_template('user-dash.html')
    else:
    print("no match")
    # return render_template('login.html')
```

The print log wasn't showing the stored salt. Therefore, the bug must be in that bit of code.

The reason the code wasn't working is because the database has a duplicate of the email address and was returning the first result – which didn't have the salt recorded. This stopped the rest of the code working.



After deleting the first record I received the salt, correctly.

I tested the login and was directed to the dashboard as intended. Here is a screenshot of the success and the finished code.

Navbar Home Add a report Search reports Login

Dashboard.