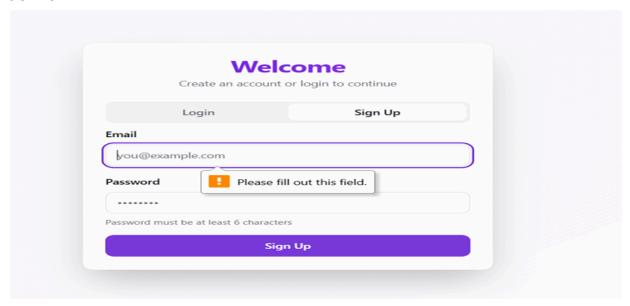
EXPERIMENT NO. 6

AIM: Implement authentication and user roles with JWT

Code:

```
> Users > Lenovo > Desktop > jwt-auth-app > 💠 models.py > ...
   from werkzeug.security import generate_password_hash, check_password_hash
   class User:
       def __init__(self, id, username, password, role='user'):
            self.id = id
            self.username = username
            self.password_hash = generate_password_hash(password)
            self.role = role
       def check_password(self, password):
            return check_password_hash(self.password_hash, password)
   # In-memory user store
   users = []
   user_id_counter = 1
      OUTPUT DEBUG CONSOLE
                              TERMINAL
C:\Users\Lenovo>
```

OUTPUT:



Conclusion

In conclusion, implementing authentication and user roles with JWT provides a secure, stateless solution for managing user access. JWTs ensure data integrity, scalability, and flexibility across platforms. By embedding user roles in the token, you can enforce fine-grained access control. While offering many advantages, it's essential to handle token security, expiration, and storage properly to prevent vulnerabilities. Overall, JWT is an efficient and scalable choice for modern authentication systems.