

```
~/Downloads -- Python - Python jwks_server.py
File ~/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/flask/app.py, line 1469, in dispatch_request
    return self.ensure_sync(self.view_functions[rule.endpoint])(**view_args)
File ~/Users/hudasalman/Downloads/jwks_server.py, line 45, in register
    send_confirmation_email(email, username)
File ~/Users/hudasalman/Downloads/user_management.py, line 81, in send_confirmation_email
    send_email(email, subject, body)
File ~/Users/hudasalman/Downloads/user_management.py, line 91, in send_email
    mail.send(message)
File ~/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/flask_mail.py, line 491, in send
    with self.connect() as connection:
File ~/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/flask_mail.py, line 144, in _enter__
    self.host = self.configure_host()
File ~/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/site-packages/flask_mail.py, line 165, in configure_host
    host.login(self.mail.username, self.mail.password)
File ~/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/smtplib.py, line 750, in login
    raise last_exception
File ~/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/smtplib.py, line 739, in login
    (code, resp) = self.auth(
        ^^^^^^^^^
File ~/Library/Frameworks/Python.framework/Versions/3.11/lib/python3.11/smtplib.py, line 662, in auth
    raise SMTPAuthenticationError(code, resp)
smtplib.SMTPAuthenticationError: (534, b'5.7.9 Application-specific password required. For more information, go to\n5.7.9 https://support.google.com/mail/?p=InvalidSecondFactor k12-20028a4adfac800000b005
81e09dfdfsm15056910ok.8 - gsmtpl')
c
hudasalman@Hudas-Air Downloads % nano jwks_server.py
hudasalman@Hudas-Air Downloads % nano jwks_server.py
hudasalman@Hudas-Air Downloads % python3 jwks_server.py
Email could not be sent. Error: (534, b'5.7.9 Application-specific password required. For more information, go to\n5.7.9 https://support.google.com/mail/?p=InvalidSecondFactor pv21-20028a0568709d9500b001
fb4dcb74ebsm1938912oab.54 - gsmtpl')
* Serving Flask app 'jwks_server'
* Debug mode: on
Email could not be sent. Error: (534, b'5.7.9 Application-specific password required. For more information, go to\n5.7.9 https://support.google.com/mail/?p=InvalidSecondFactor mj21-20028a0568709d9500b001
fb435f740dsm193923oab.29 - gsmtpl')
* Debug mode: on
Email could not be sent. Error: (535, b'5.7.8 Username and Password not accepted. For more information, go to\n5.7.8 https://support.google.com/mail/?p=BadCredentials v13-20028a4a8c4d080000b005906f420ba9
sm1504616ooj.43 - gsmtpl')
* Serving Flask app 'jwks_server'
* Debug mode: on
Email could not be sent. Error: (534, b'5.7.9 Application-specific password required. For more information, go to\n5.7.9 https://support.google.com/mail/?p=InvalidSecondFactor v21-20028a4a3155000000b0059
069b4442esml543005oog.5 - gsmtpl')
hudasalman@Hudas-Air Downloads % nano jwks_server.py
hudasalman@Hudas-Air Downloads % python3 jwks_server.py
Email could not be sent. Error: (535, b'5.7.8 Username and Password not accepted. For more information, go to\n5.7.8 https://support.google.com/mail/?p=BadCredentials cm11-20028a0568306b00b006d99d36372
3sm434972otb.65 - gsmtpl')
* Serving Flask app 'jwks_server'
* Debug mode: on
Email could not be sent. Error: (535, b'5.7.8 Username and Password not accepted. For more information, go to\n5.7.8 https://support.google.com/mail/?p=BadCredentials m4-20028a0568000f6400b003b9d00ca189s
ml408334oiw.34 - gsmtpl')
hudasalman@Hudas-Air Downloads % nano jwks_server.py
hudasalman@Hudas-Air Downloads % python3 jwks_server.py
Email sent successfully!
* Serving Flask app 'jwks_server'
* Debug mode: on
Email sent successfully!
```

```
Terminal Shell Edit View Window Help
Downloads -- -zsh -- 176x54

return cast(R, flask.current_app.ensure_sync(obj))(*a, **k))
File ~/Users/hudasalman/Downloads/jwks_server.py, line 84, in authenticate
    jwt_token = generate_jwt_token(user_id=1)
File ~/Users/hudasalman/Downloads/generate_rsa_keys.py, line 130, in generate_jwt_token
    return jwt.encode(("user_id": user_id, "09po98op", algorithm="HS256").decode())
AttributeError: 'str' object has no attribute 'decode'

hudasalman@Hudas-Air Downloads % curl -X POST -H "Content-Type: application/json" -d '{"username": "hayal", "password": "psal xzui jlit tyun"}' http://localhost:8080/auth
{"jwt_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyX2liXjoxZjQxLmhfcmwC-122kPK8z7BPTxtagFUTU=-vK0ZFX3z8VY_I", "message": "Authentication successful"}

hudasalman@Hudas-Air Downloads % ./gradebot project3
time=2023-12-10T16:38:20.169-06:00 level=ERROR msg="/register endpoint" err="invalid UUID length: 0"
time=2023-12-10T16:38:20.174-06:00 level=ERROR msg="/auth requests are logged" err="expected status code 200, got 400"
time=2023-12-10T16:38:21.208-06:00 level=ERROR msg="/auth is rate-limited (optional)" err="expected status code 200, got 400"



| RUBRIC ITEM                                | ERROR?                       | POSSIBLE | AWARDED |
|--------------------------------------------|------------------------------|----------|---------|
| Create users table                         |                              | 5        | 5       |
| /register endpoint                         | password is not a valid UUID | 20       | 0       |
| Private Keys are encrypted in the database |                              | 25       | 25      |
| Create auth_logs table                     |                              | 5        | 5       |
| /auth requests are logged                  |                              | 10       | 0       |
| /auth is rate-limited (optional)           |                              | 25       | 0       |
|                                            |                              | TOTAL    | 90      |
|                                            |                              |          | 35      |



press any key to continue...
hudasalman@Hudas-Air Downloads % git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint: git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint: git branch -m <name>
Initialized empty Git repository in /Users/hudasalman/Downloads/.git/
hudasalman@Hudas-Air Downloads % git add generate_rsa_keys.py jwks_server.py
hudasalman@Hudas-Air Downloads % git commit -m "Initial commit"
[master (root-commit) e7c6b1b] Initial commit
2 files changed, 237 insertions(+)
```