created the **repo on git**installed the fastapi , sqlalchemy , psycopg2, alembic , pydantic  
created the **schema and model of user**  
after that uses command  
 **- > alembic init alembic**   
make changes in the line **21 of env.py file**   
**config.set\_section\_option('alembic','sqlalchemy.url',f'postgresql+psycopg2://postgres:{postgresSQL\_password}@localhost:5432/{database\_name}')  
from model import Base  
target\_metadata = Base.metadata**  
after that   
 **- > alembic revision --autogenerate -m "init user model"**check version file (in that contain the user models and columns names )  
after that uses command  
 **- > alembic upgrade head**

it will create the user table in the database .

JWT tokens and SMTP :

Json web tokens : user id as a data and the SH256 algorithm and 32 bit hexadecimal secret key to encode the data using JWT . using this we create the token and send the user registered email using

simple mail transfer protocol we send the mail with verification link is link the (http://127.0.0.1:8000/user/verify?token=”asdfafa65a46dfa5s6df4a5fd6a5dfa6fd5a4asd”)

creating secret key : **import secrets > secrets.token\_hex(32)**

after sending the mail to the user . then user can hit that link then the verify api is automatically called . in the **verify api** we make the **is**\_**verified** filled In the database as the **Trur**

add the notes model and schema also the in notes.py added the notes apis in the add update delete and get the notes .

add the logging in the notes and user apis

* **alembic revision --autogenerate -m "init notes models"**
* **alembic upgrade head**