**Django Web Project Notes**

**1. Navigate to Project Directory**

cd quantumLab

**2. Run the Django Server**

* Default:
* python manage.py runserver
* Run on a specific IP and port:
* python manage.py runserver 192.168.3.4:8000

*(Find your local IP using ifconfig or ip a.)*

**3. Apply Database Changes**

* Create migration files:
* python manage.py makemigrations
* Apply migrations:
* python manage.py migrate

**4. Create a Superuser**

python manage.py createsuperuser

*(Follow the prompts to set up an admin account.)*

**5. Check Database Records (Django Shell)**

python manage.py shell

Inside the shell, query models:

from users.models import WorkSession

WorkSession.objects.all()

**6. Collect Static Files (For Deployment)**

python manage.py collectstatic

**7. Clear Django Cache (If Needed)**

python manage.py shell

from django.core.cache import cache

cache.clear()

**8. Deploy with Gunicorn (Production)**

gunicorn quantumlab.wsgi:application --bind 0.0.0.0:8000

**9. Debugging & Logs**

* Check logs:
* tail -f /var/log/syslog
* Run Django with debugging enabled:
* python manage.py runserver --verbosity 3

Let me know if you need more! 🚀

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git add .

git commit -m "add something new"

git push origin main

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