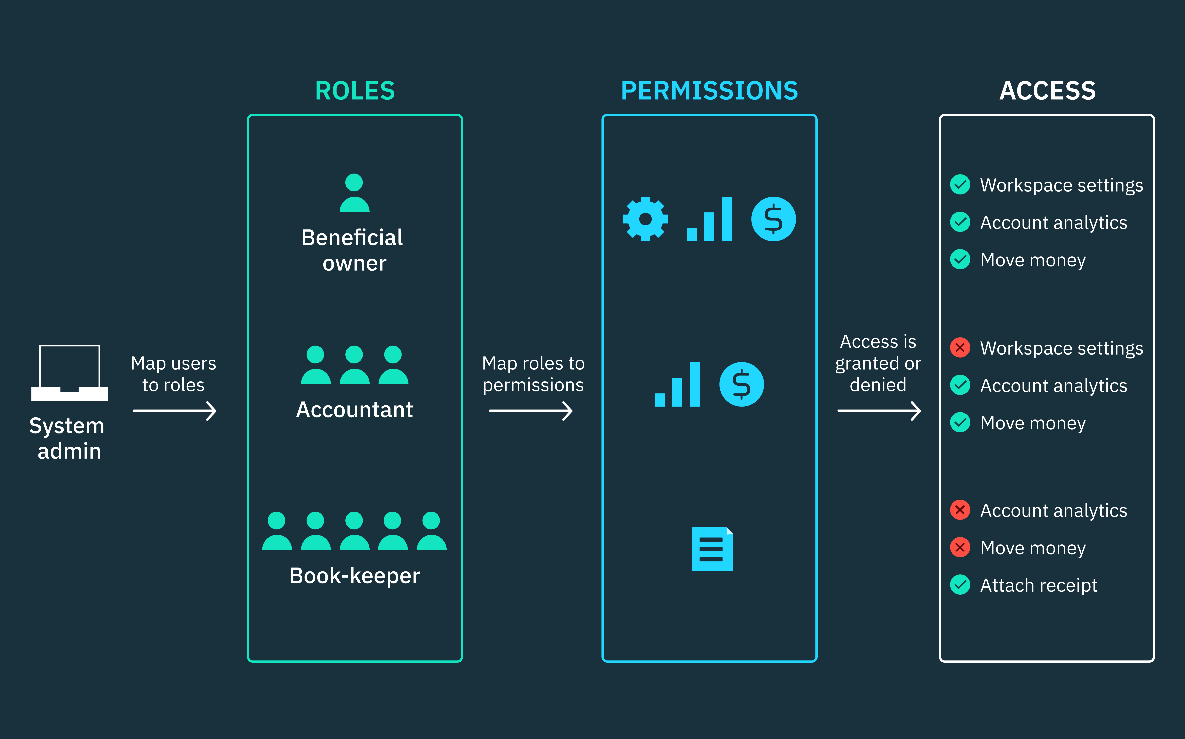
**RBAC + MFA - LizardLock**

Practical 2  
Michael Todd  
U23540223



**My PC Specifications**

* Windows 11 Home with DirectX 12
* Intel Core i7-10700, 8 cores and 16 threads, base clock 2.90GHz
* 16GB RAM
* 1TB SSD
* NVIDIA GeForce GTX 1650 SUPER with 1280 CUDA cores, 4GB GDDR6 memory
* There are some overclocks present on the RAM and GPU
* Python 3.13.5

**Commands**

These are just all general commands I either made or used during development

pip install -r requirements.txt

python manage.py makemigrations

python manage.py migrate

python manage.py createsuperuser

python manage.py runserver

python manage.py encrypt\_mfa\_secrets (I forgot that plaintext MFA secrets are vulnerable – so I just made a quick script to encrypt existing users – “lizards” mfa\_secret – the codebase now does this automatically)

**TASK 1**

**TASK 1**

**TASK 2**

**TASK 3**

**REFERENCES**