Homework 3

By Kamanashis Roy
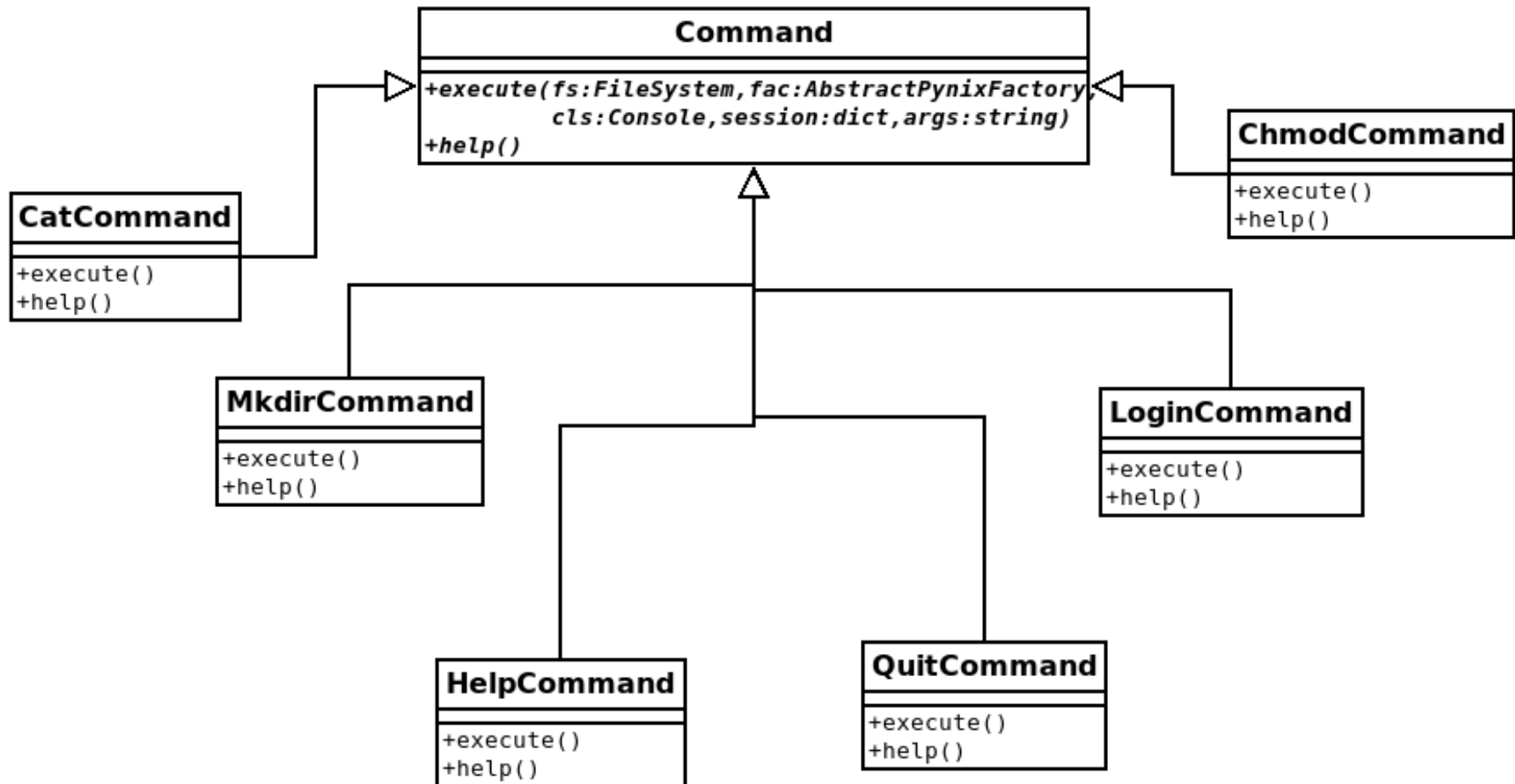
https://github.com/kamanashisroy/pynix

Creational pattern:Abstract factory

Polymorphism

Command

+execute(fs:FileSystem,fac:AbstractPynixFactory,
         cls:Console,session:dict,args:string)
+help()

CatCommand

+execute()
+help()

ChmodCommand

+execute()
+help()

MkdirCommand

+execute()
+help()

LoginCommand

+execute()
+help()

HelpCommand

+execute()
+help()

QuitCommand

+execute()
+help()
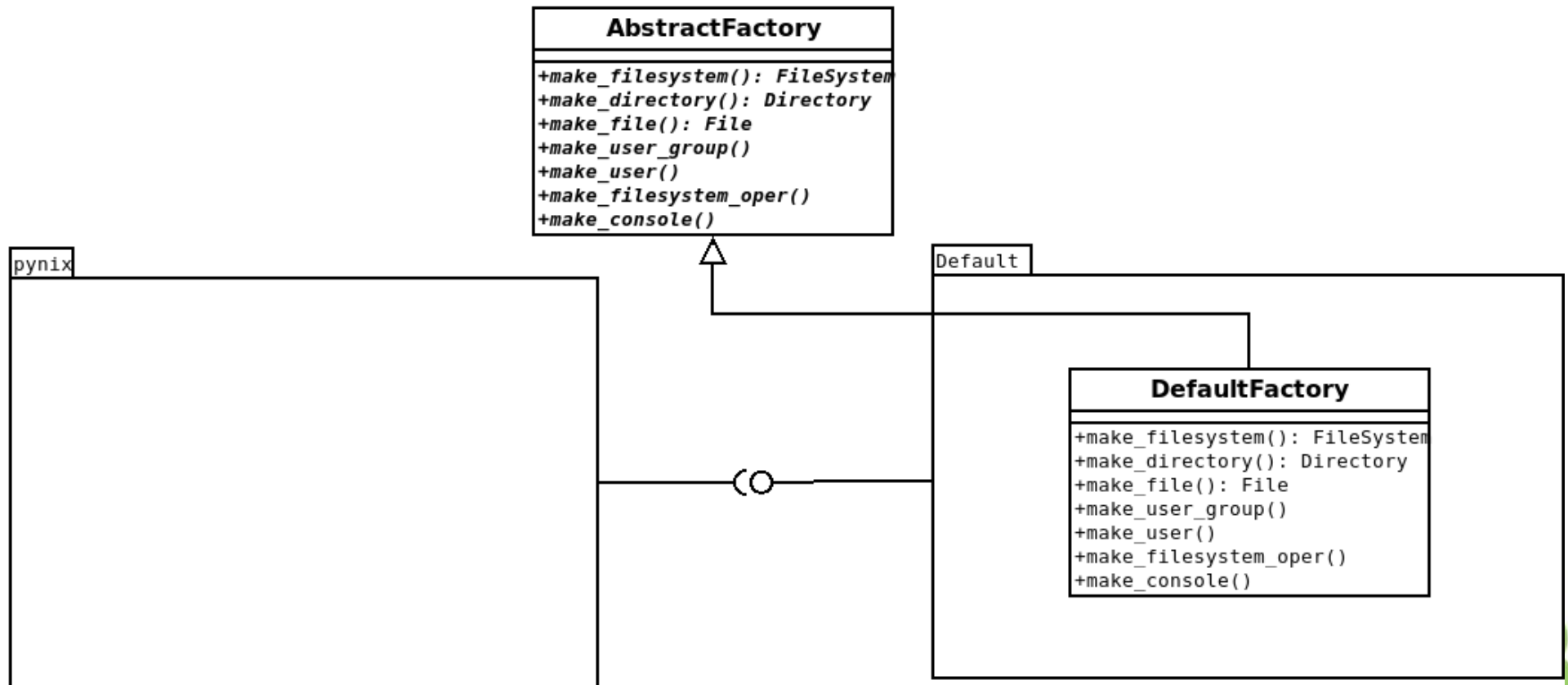
Login and Start

- python3 pynix.py
  - help login
  - login admin admin
  - Source: LoginCommand.py
  - Injection: DefaultPynixFactory.py

Create Directory

- mkdir */root*/goody

- Source: MkdirCommand.py

- Injection: DefaultPynixFactory.py

Show file and directory

- cat */root*/goody

- cat /root

- Source: CatCommand.py

- Injection: DefaultPynixFactory.py

Create new file

- cat */root*/README hello

- cat */root*/goody/shoe red

- Source: CatCommand.py

- Injection: DefaultPynixFactory.py

Show files and permission

- cat */root/*

- Source: CatCommand.py

- Injection: DefaultPynixFactory.py

Edit file/dir permission

- chmod */root/* 0b1
- Source: ChmodCommand.py
- Injection: DefaultPynixFactory.py

Persistence

- Json db
  - TODO

Model , View , Controller