Dependency Injection (the "D" in SOLID, kind of) Fast API Injet current request inject current response Capp. post ("/api/users") det create-user (request: Request, response: Response): #code Capp.put ("/api/users/Euser-us")

Capp.put ("lapi/users / Evser_id")

def update_user (user_id:int): - missing HTTP request object!

code
Dass

```
"repository pattern"
                                              Without DI:
Class Account Queries:
    def create_account(self, ...):
syl.insert(...)
                                              def create_account (account):
                                                   repo = Account Querics()
         return new-account
                                                   seturn reporteeate-account (account)
       # totally db - bound
                                                  # hard to write unit tests 
# does not need: network, do, fs
  "kind of like DAO (data access object)"
 Unit test with DI version -
                                              def create-account(
 det test-create-account ():
                                                    repo: Account Queries = Depends(),=
     app. dependey-overades [Account Queries]=
        Fake Account Queries
   rapa post (" ~ ", auta)
     # when It runs It uses
# Fake AccordQueries

asset 105ult. Shitus. code == 201
                                                   seturn reportreate-account (account)
```

Class-based version

uses the type hints def f (repo: Account Queries = Depends(1): def f (repo = Depends(AccountQueries)) := uses the actual class |

def f (repo : Account Queries = Depends (AccountQueries)):

Method results version

def f (user: Account - Depends (get_current_ster)):

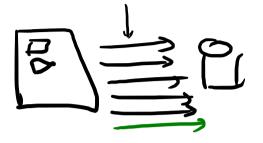
3: get-curetue Dependencies with dependencies 2: involve cter, class BlogQueries: def __inct__(self, user-Account = Depends (get_curent-user)). Self.user = user of type Account def create (seis, blug-content): db. rreate (& "text": blog_content, "author": self.users) earp. post ("lapilblas") det create-blog (blog: Blog) deps: Bly Oreis repo. create (blog) of actual value print (ropo user) 140 pouvetos

Thread or I/O'Pools' > Resource pools



creating the Connection takes "a long time"

- ·TG/P handshipe
- Db handshake
 Conn string
 V Heavay



pool. connection()

lexisting connection

· V Query!

need sixth connection!

o go thru dunh styls

6 Janery!