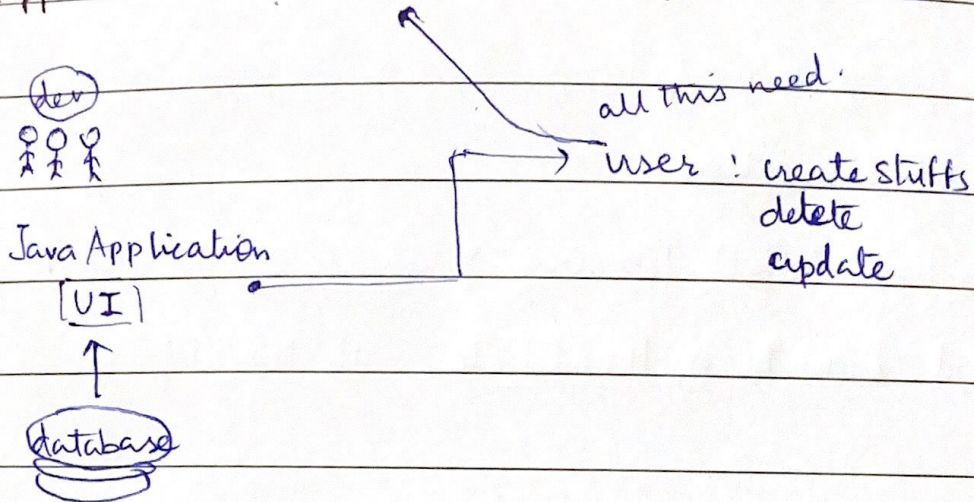


Databases

- Application uses databases to persist data.



- locally (testing them) for development.

↑
opt1 : Each developer install mysql DB locally.

Adv - You can't mess up others data test.

Disadv - manually set up the test data.

opt2 : DB hosted remotely.

Adv - Start coding right away.

- get the data immediately.

disadv - can't play around without affecting data of others.

Ideal solution: to have both.

How our application talks to our database?

∴ In application code.

• Each programming lang. has a library/modules for DB connection.

• You have to tell library → which DB to talk to and how to authenticate with that DB.

Database endpoint / address

Credentials.

Application can establish connection

• shouldn't be hard coded

- define in 1 place as environment variables

- configure from outside

DEV

TEST

PROD

→ diff endpoints.

• define variable in code.

- Pass env variable on start up

but not practical. /so → properties /config file.

- Define the values in properties files.

Ex:- NodeJS → config.json

• Databases in Production.

☑ Before app is deployed, DB are configured.

Data → Important

↓ Replicate, Backups, performs under high load.

Roles! System Admin, DB engineer, DevOps engineer.

↓

- How to Configure DB, set up, manage.

- replicate, backup, restore DB,