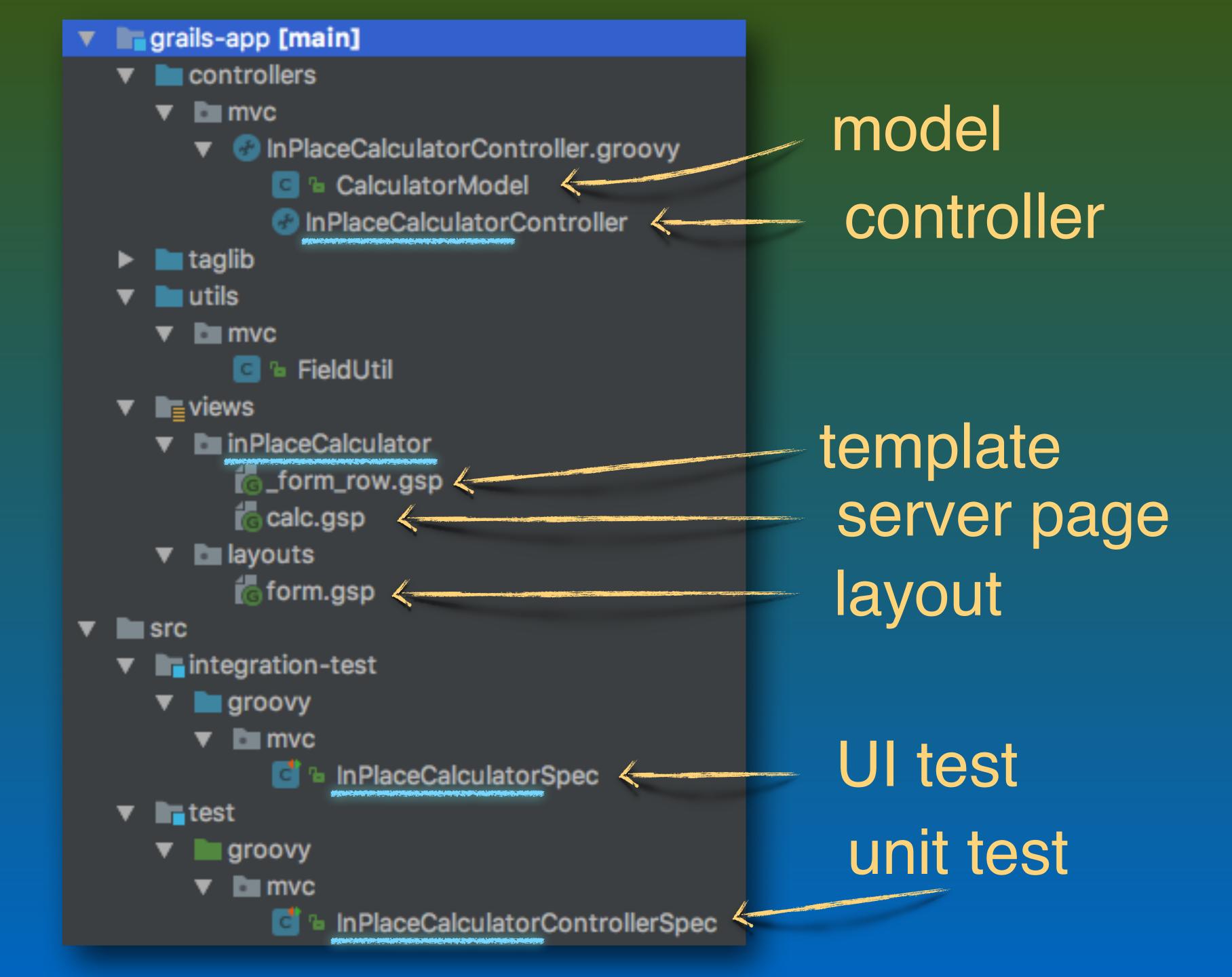
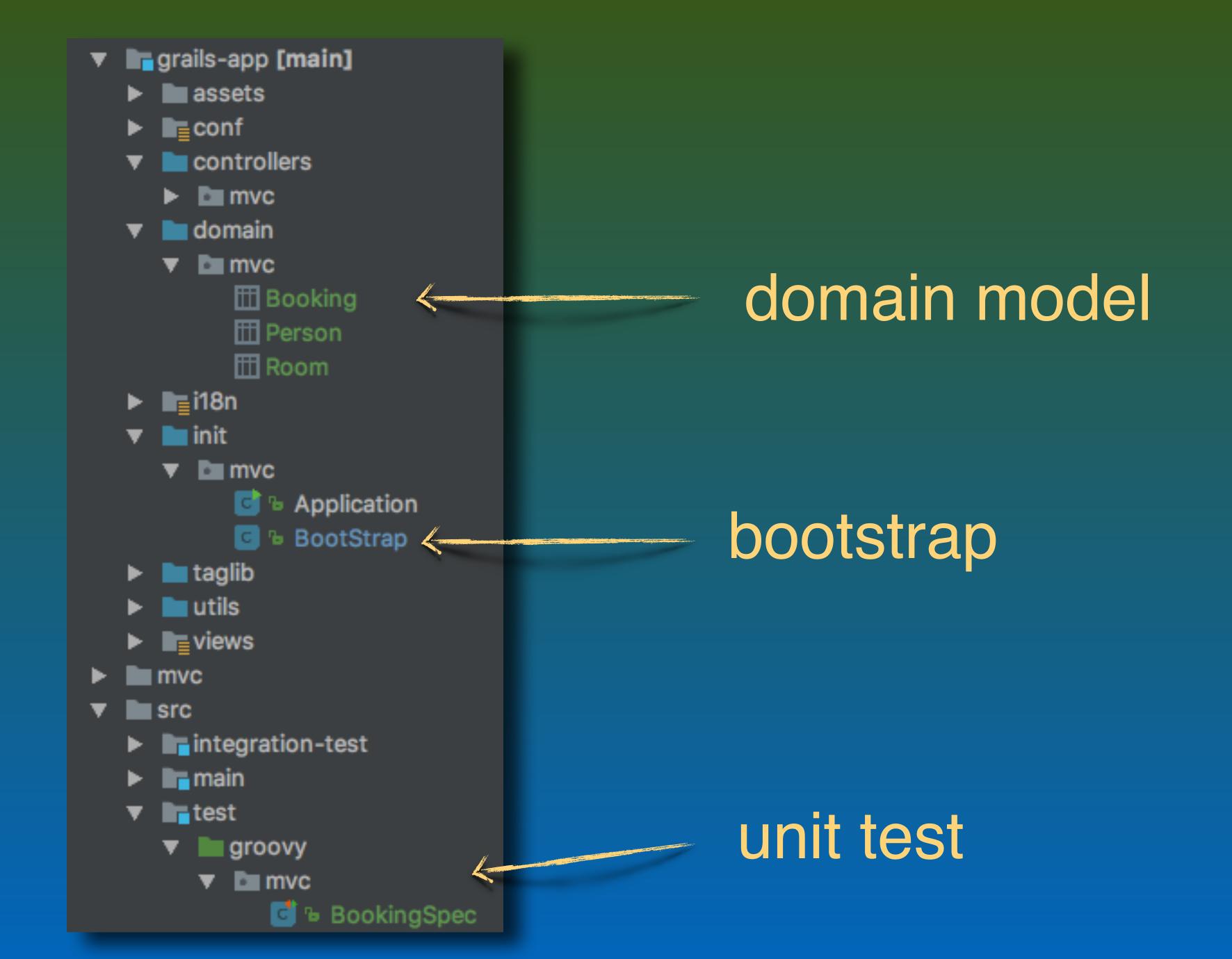
Persistent State

Web Engineering Prof. D. König Christian Ribeaud

Structure



Structure



Domain Classes

```
package mvc
class Room {
   String description
   int capacity
   String toString() { description + "(" + capacity + ")" }
   static constraints = {
```

CRUD Methods

```
new Room(description: "5.3A17", capacity: 40).save()
Room.list()
Room.findAllByCapacityGreaterThan(20)
def firstRoom = Room.get(1)
firstRoom.delete()
```

Grails ORM

http://docs.grails.org/latest/guide/GORM.html Domain classes serve as DAO/DTO/Model DB is set up automatically Dynamic finder methods simplify usage Keep it simple

Scaffolding

static scaffold = domainClassName

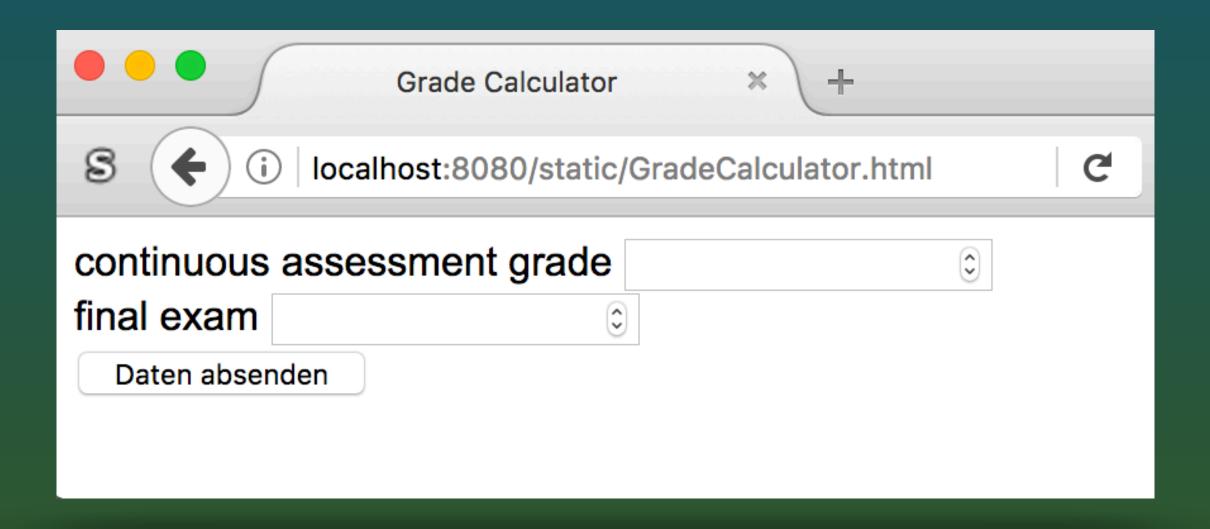
Controller actions and views are created transparently behind the scenes

We can selectively override

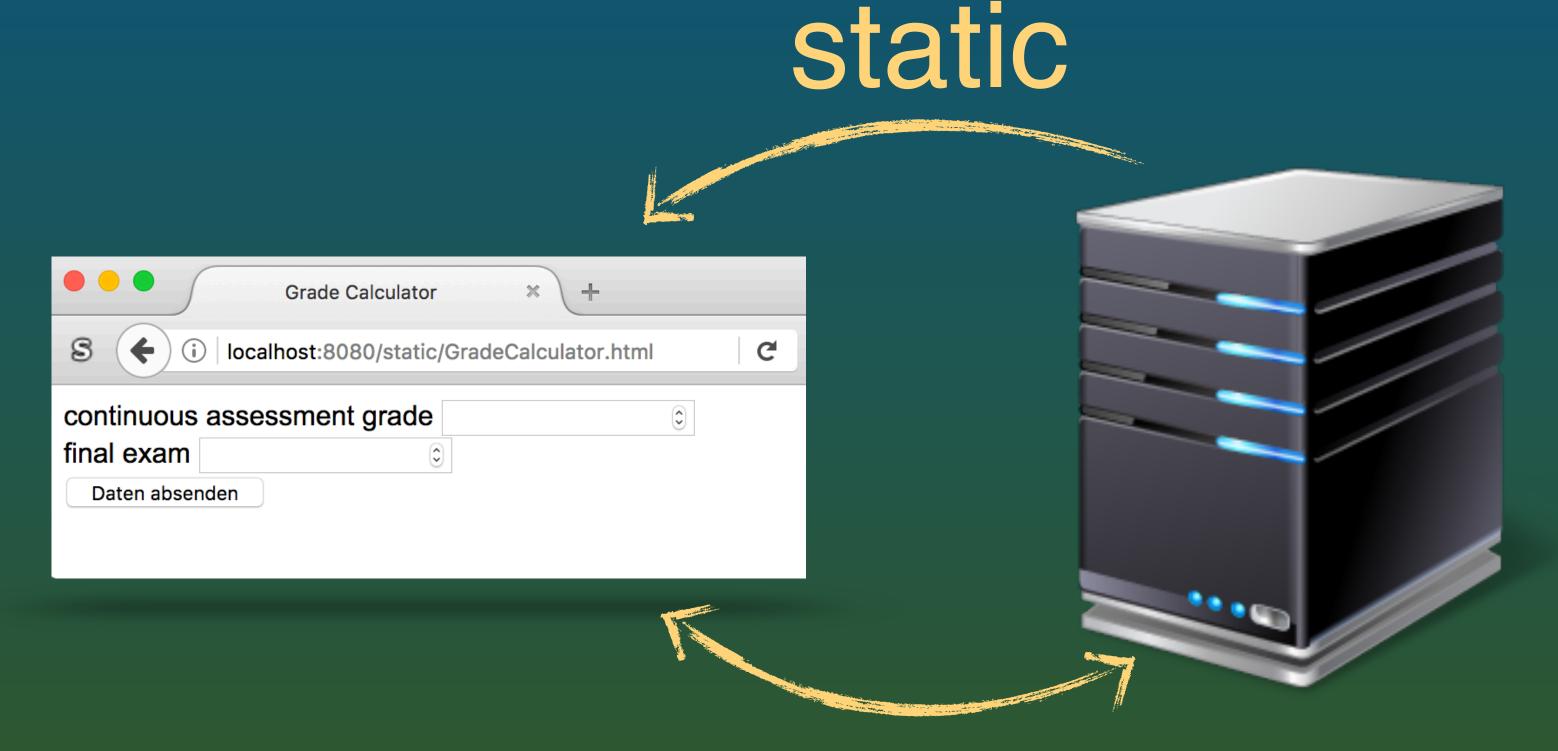
HTML, CSS, JavaScript

static

dynamic



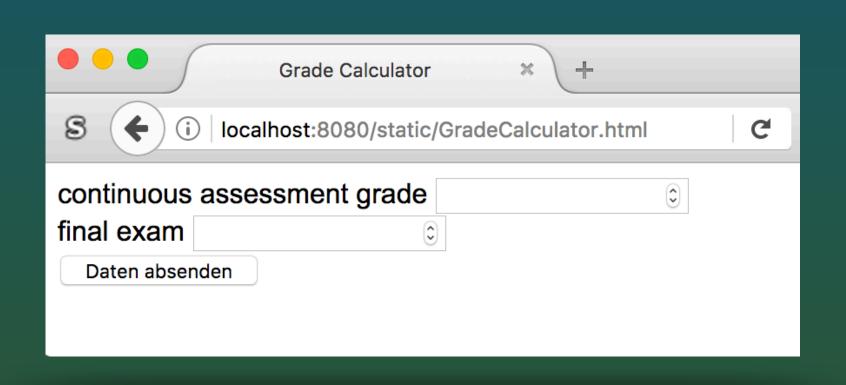
Web MVC, Server Pages



conversational

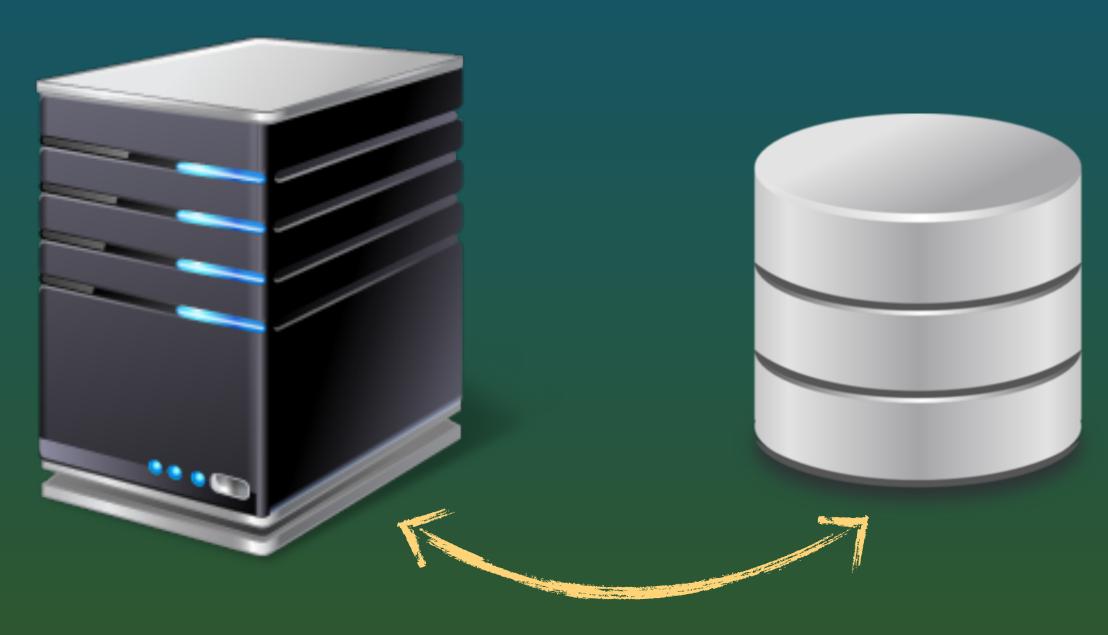
Three Tier Web Applications

Client



Server

DB



persist

Where State Lives

HTML static DOM, forms

HTML dynamic JS, localstorage

Server static Deployment

Conversation Session

Persistent Database