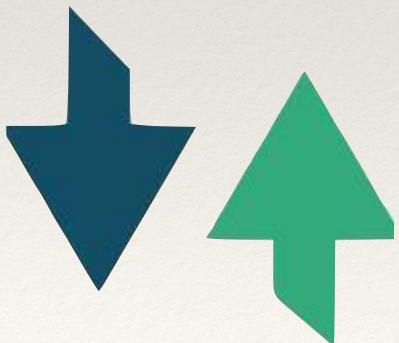


Zip Code Wilmington

Passion Projects

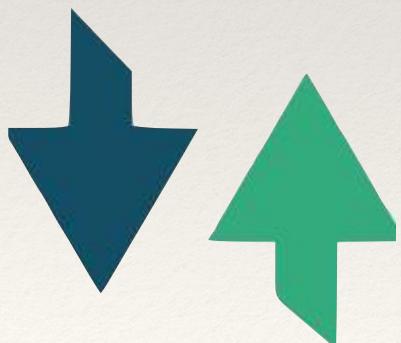


It's all about how bad you want to be successful.

Zip Code Wilmington

Passion Project

2023



KEEP IN MIND THAT I'M SELF-TAUGHT, SO MY CODE MAY BE A LITTLE MESSY.

LEMMEE SEE-
I'M SURE
IT'S FINE.



...WOW.
THIS IS LIKE BEING IN A HOUSE BUILT BY A CHILD USING NOTHING BUT A HATCHET AND A PICTURE OF A HOUSE.



IT'S LIKE A SALAD RECIPE WRITTEN BY A CORPORATE LAWYER USING A PHONE AUTOCORRECT THAT ONLY KNEW EXCEL FORMULAS.



IT'S LIKE SOMEONE TOOK A TRANSCRIPT OF A COUPLE ARGUING AT IKEA AND MADE RANDOM EDITS UNTIL IT COMPILED WITHOUT ERRORS.

OKAY, I'LL READ
A STYLE GUIDE.



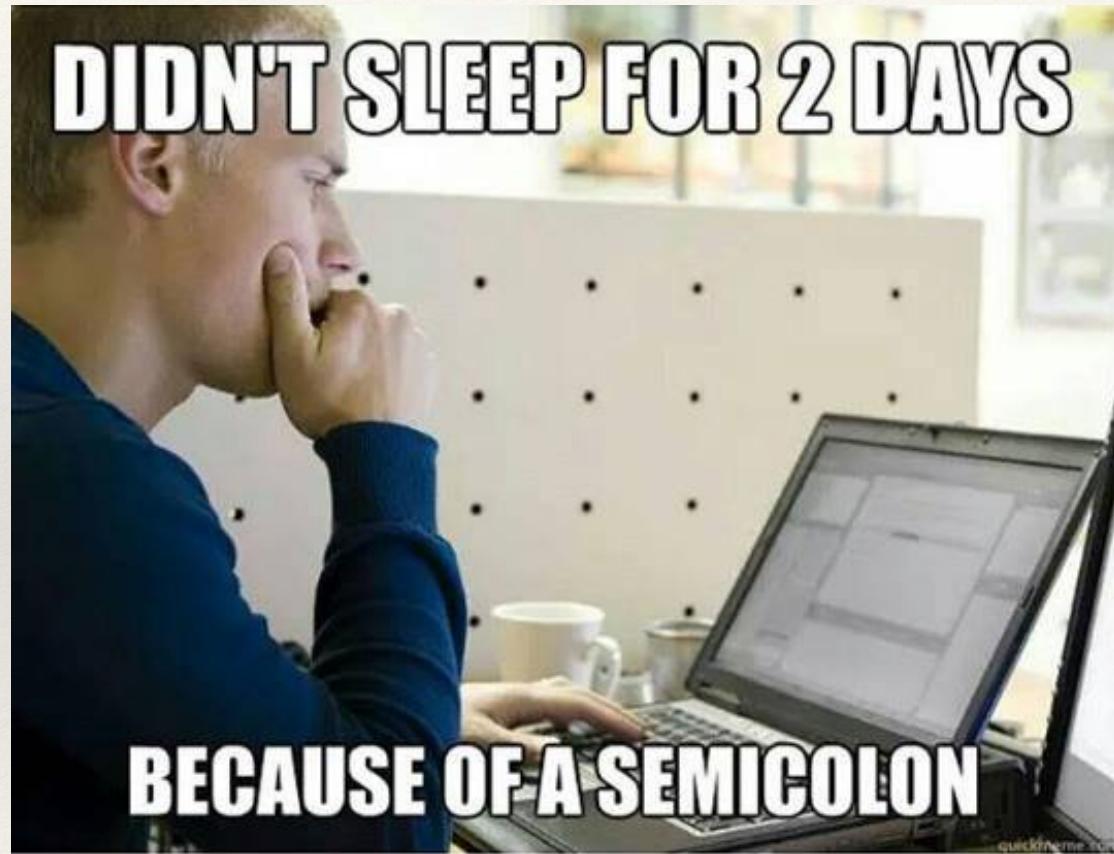
KEEP
CALM
AND
KEEP
CODING

JUST KEEP CODING



JUST KEEP CODING

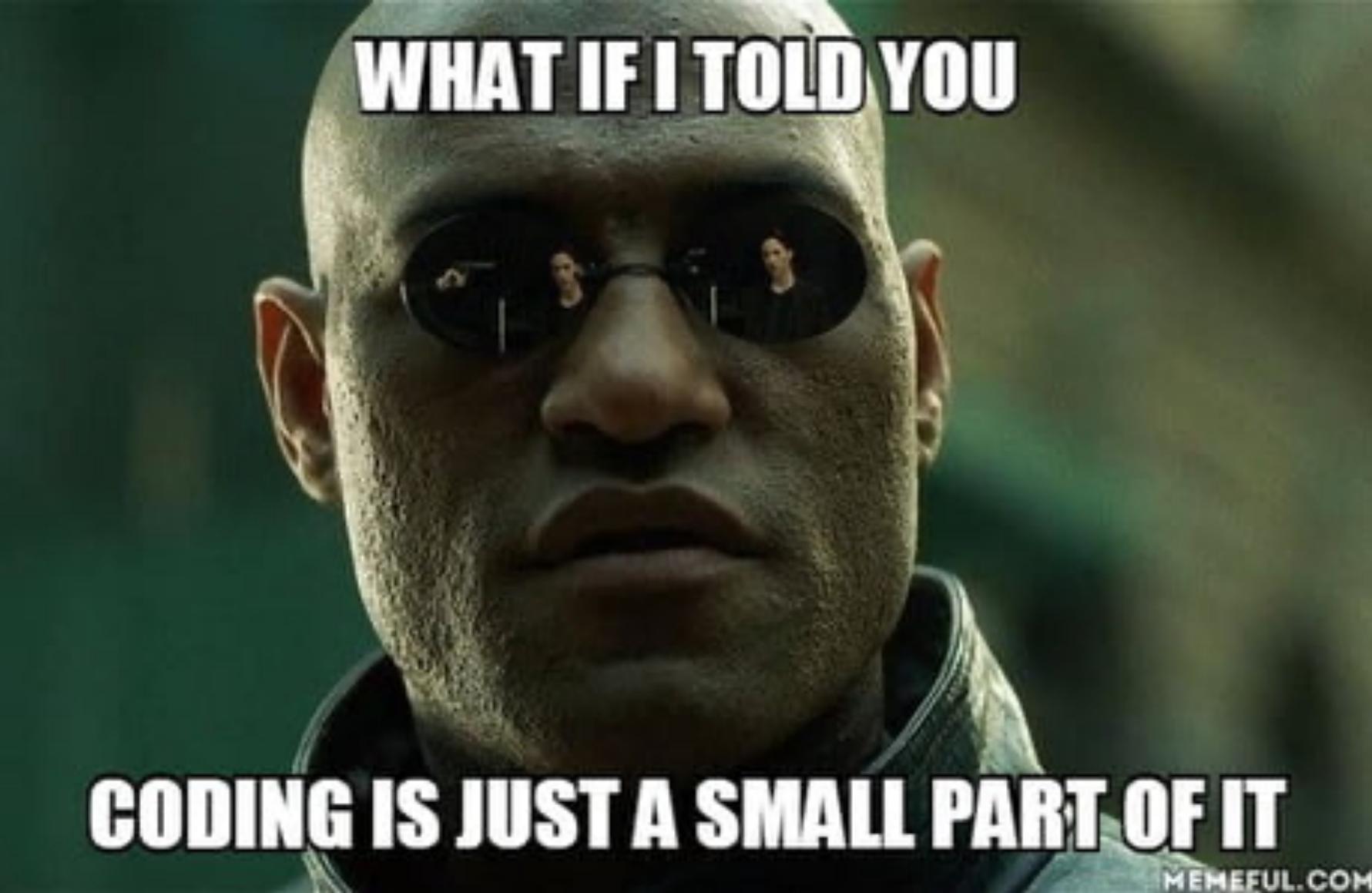
Gotta Learn to Move On



Passion Project

- ❖ Build something you think is fun
- ❖ Something that Interests you
- ❖ Three Tier Application (FrontEnd UI, Server, DB)
 - ❖ UI – (Mobile, Web, Desktop) – Javascript/JSON/??
 - ❖ spring.io Middle tier Server: Java
 - ❖ Database: Mysql, Postgres or NoSQL





WHAT IF I TOLD YOU

CODING IS JUST A SMALL PART OF IT

MEMEFUL.COM

Before you start coding...

- ❖ An overview document of the project (one-pager)
- ❖ UI Sketches
- ❖ UML/JDL of Data Model
- ❖ Overall architecture as built
 - ❖ Choices: FE, DB, etc...



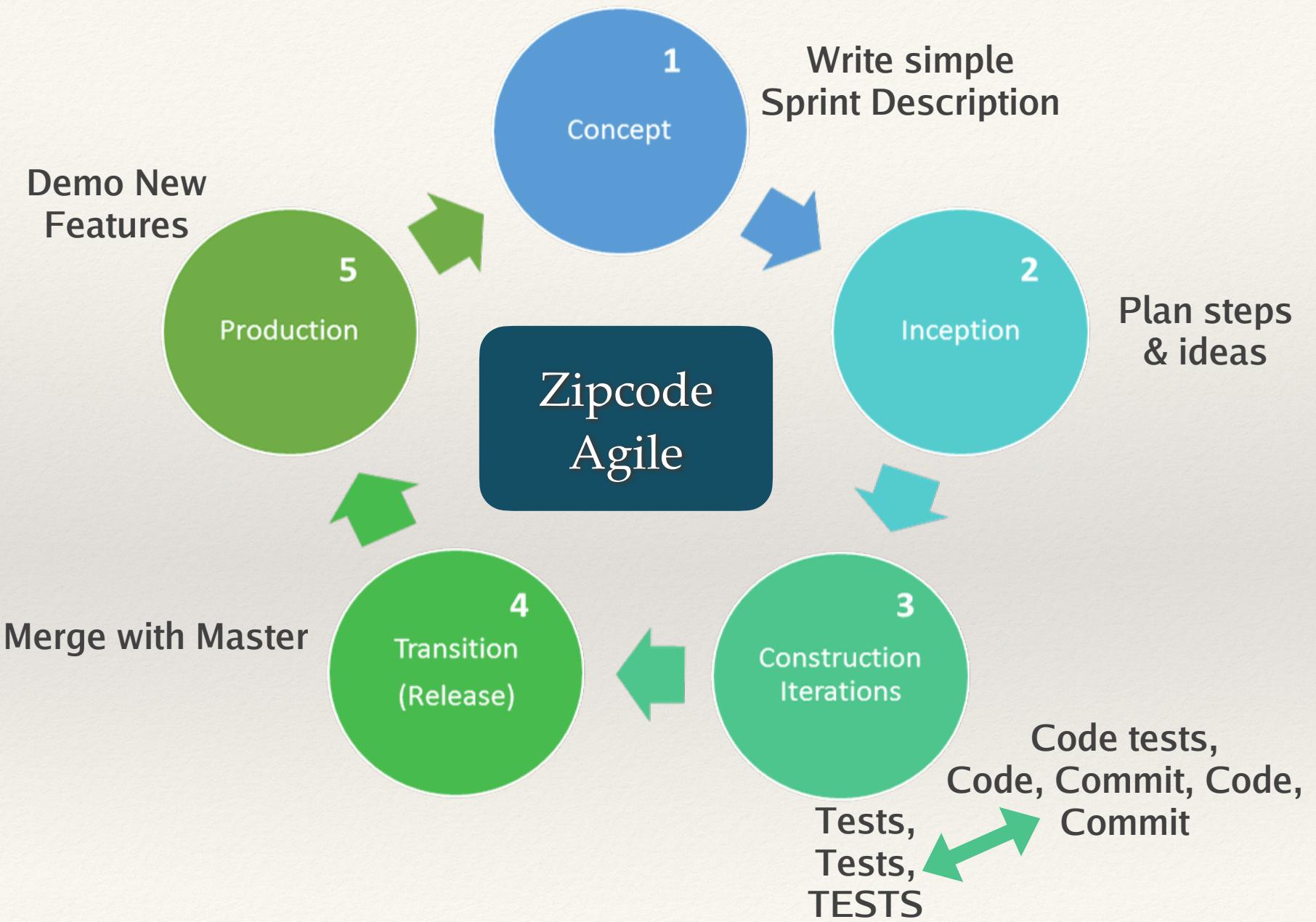
Designs

- ❖ UML diagrams and specs must be kept, seriously.
- ❖ API design docs, for each segment where a protocol needs to be used for data communications.
- ❖ Designs should use Model(Service)/View/Controller, with Client and Server focus subgroups
- ❖ UI/UX should be done in Typescript/React/Angular (or another pre-approved)
- ❖ The database schema/objects must documented.
- ❖ The app server must be based on spring.io (Spring Boot)

Agile Methodology

- ❖ Your project work should be in agile sprints
 - ❖ commit histories are important
 - ❖ multiple commits should be done daily on all work
- ❖ All sprints end with a complete merge back to the master branch
- ❖ The project should start with simple features, and then add to it over the course of several sprints
- ❖ The internet has many different ways of doing each of these projects, tutorials, descriptions and so on, describing how these things can be done. Research on the topics should be considered to be the very first task you should do on the project.





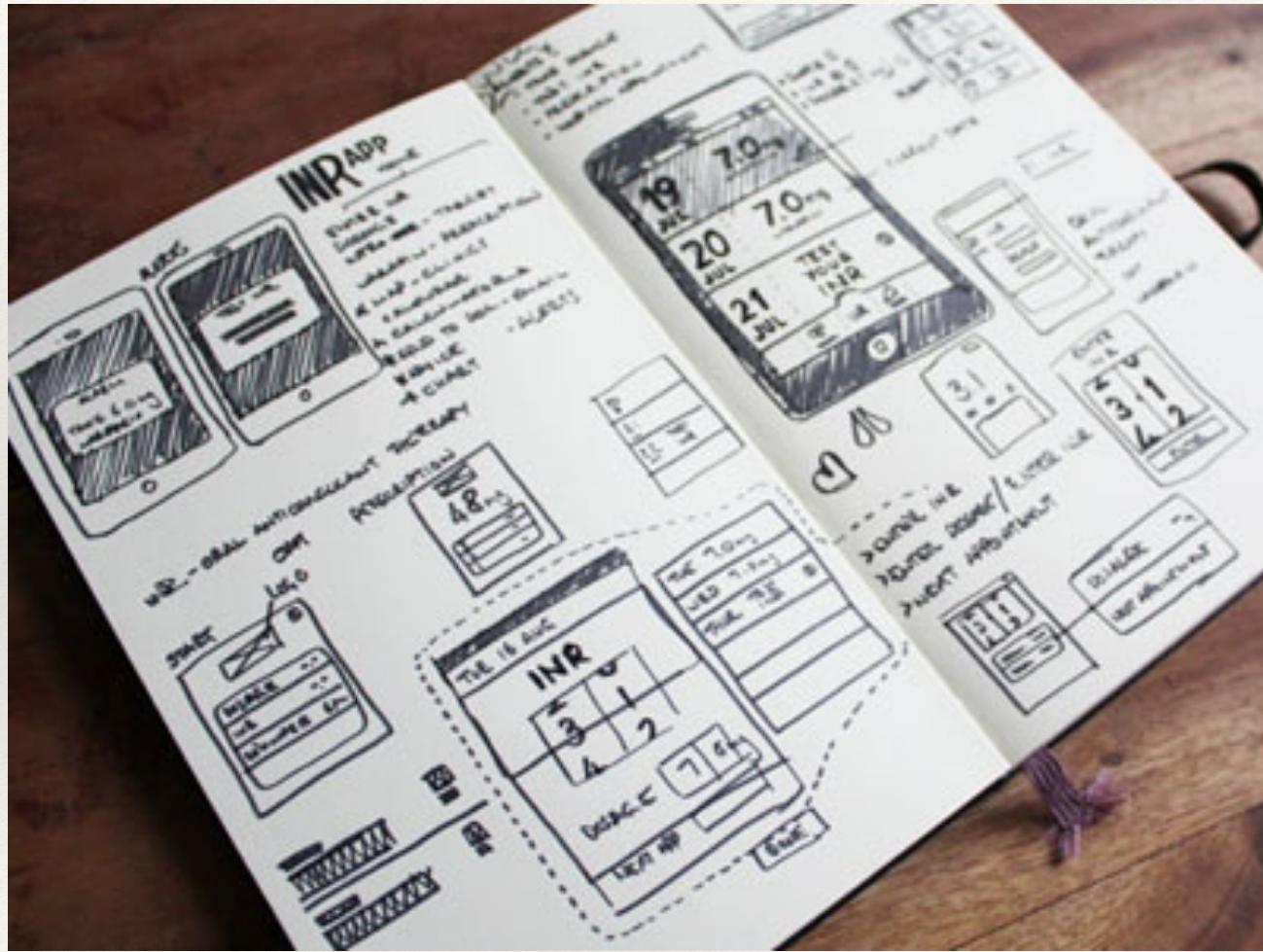


Yours is without a doubt the worst code I've ever run

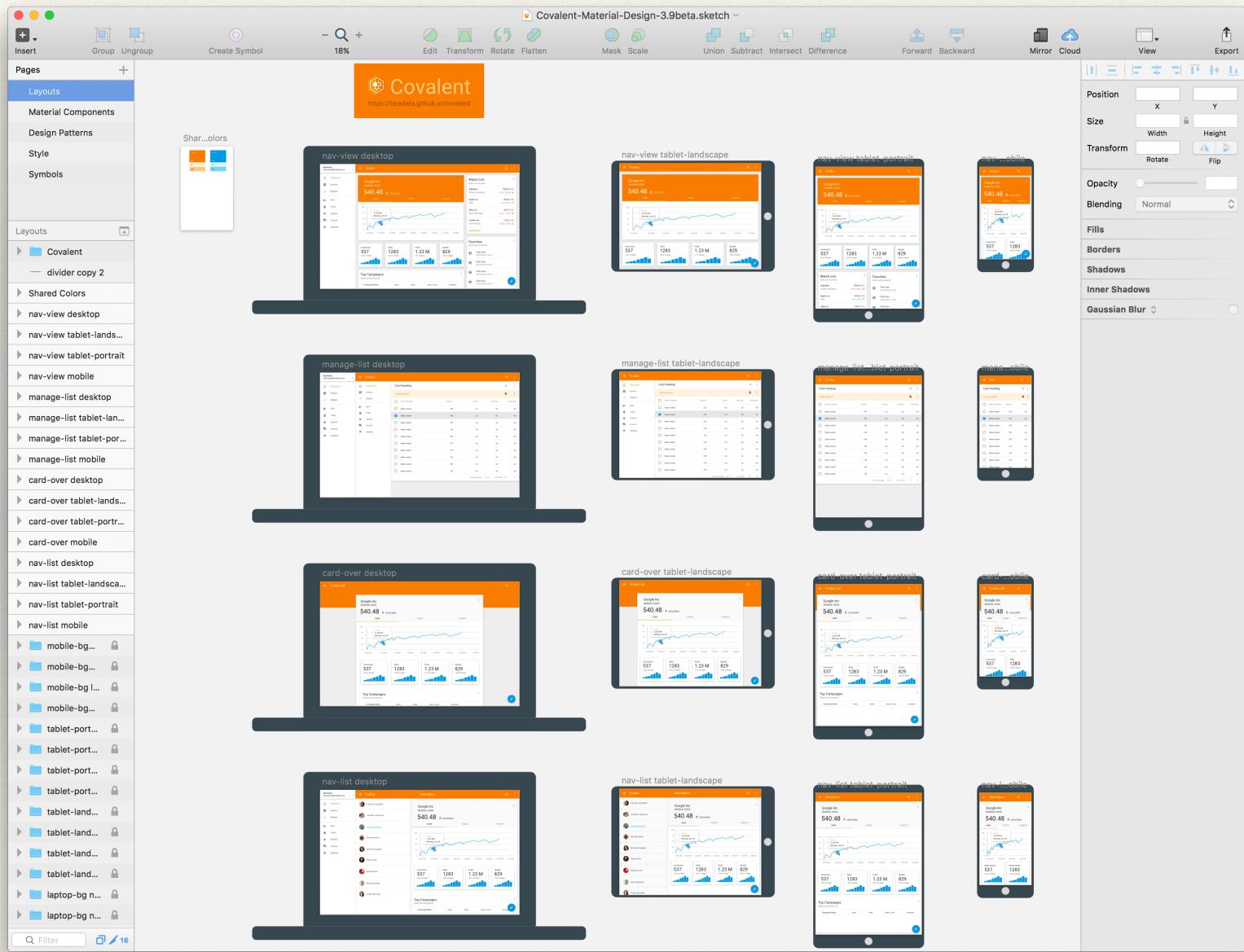


But it runs

UI Design



UI Design



JHipster & JDL

JDL-Studio ☀️ → | [Select template](#) | [Go to stable JDL Studio](#)

```
1 entity Region {  
2     regionName String  
3 }  
4  
5 entity Country {  
6     countryName String  
7 }  
8  
9 // an ignored comment  
10 /** not an ignored comment */  
11 entity Location {  
12     streetAddress String  
13     postalCode String  
14     city String  
15     stateProvince String  
16 }  
17  
18 entity Department {  
19     departmentName String required  
20 }
```

The diagram illustrates the JDL entities and their associations:

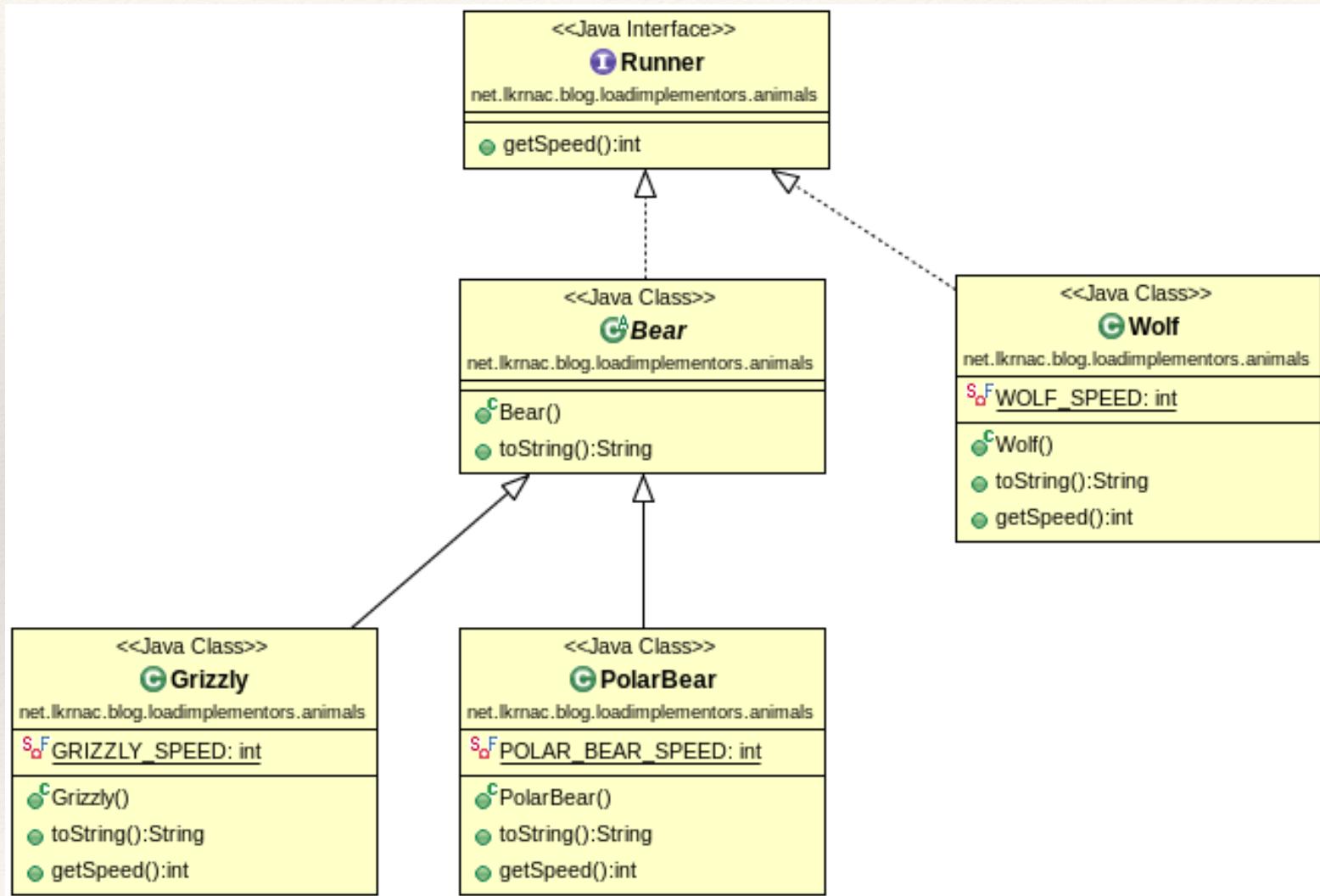
- Language** (enum): FRENCH, ENGLISH, SPANISH.
- JobHistory**: startDate, endDate, language.
- Department**: departmentName (required).
- Employee**: firstName, lastName, email, phoneNumber, hireDate, salary, commissionPct.
- Location**: streetAddress, postalCode, city, stateProvince.
- Country**: countryName.
- Job**: jobTitle, minSalary, maxSalary.

Relationships:

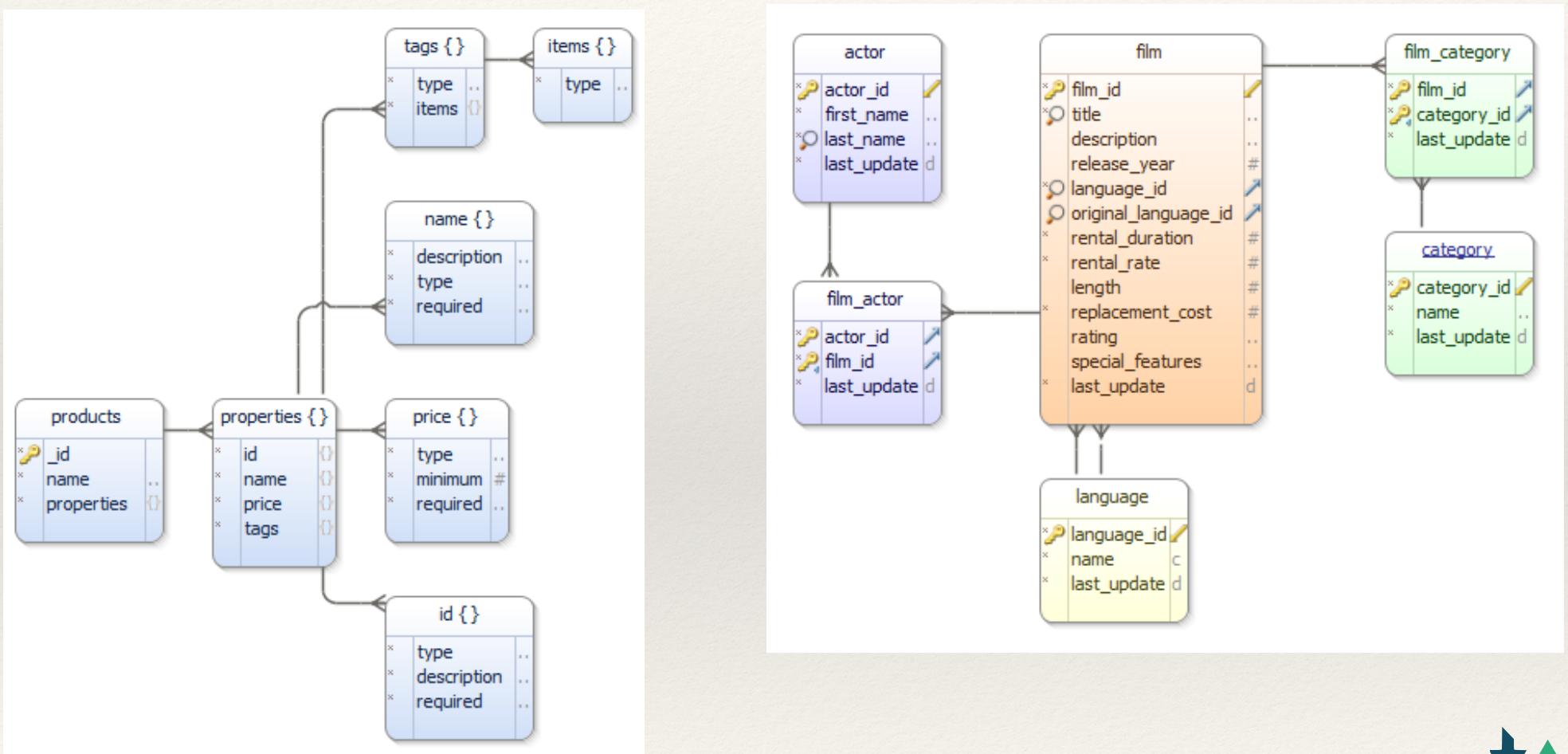
- JobHistory** has one-to-one associations with **Department** and **Employee**.
- Department** has one-to-one associations with **Location** and **Employee**.
- Employee** has one-to-many associations with **Job** and **Country**.
- Job** has many-to-many association with **Country**.

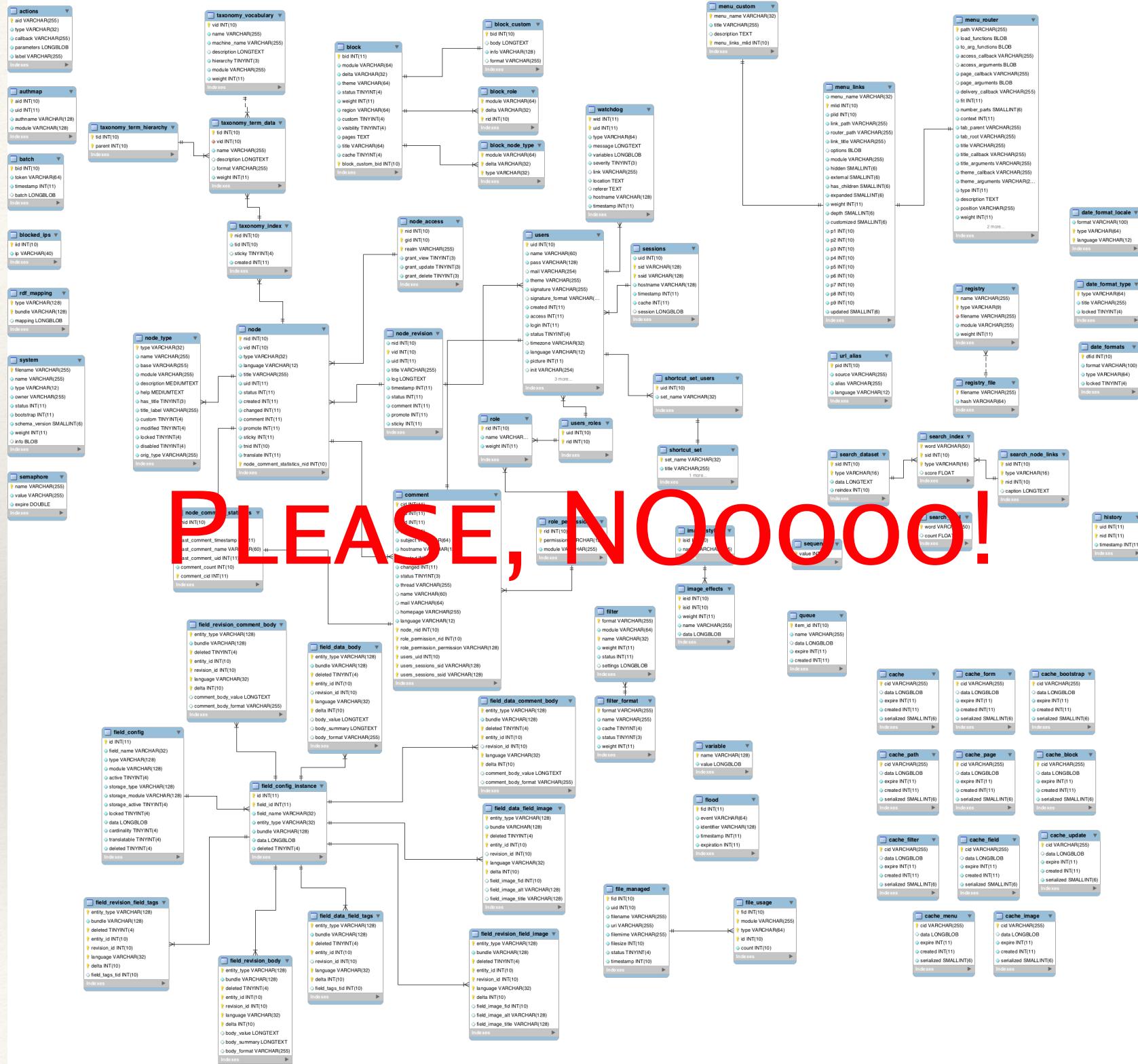
Bottom right corner:

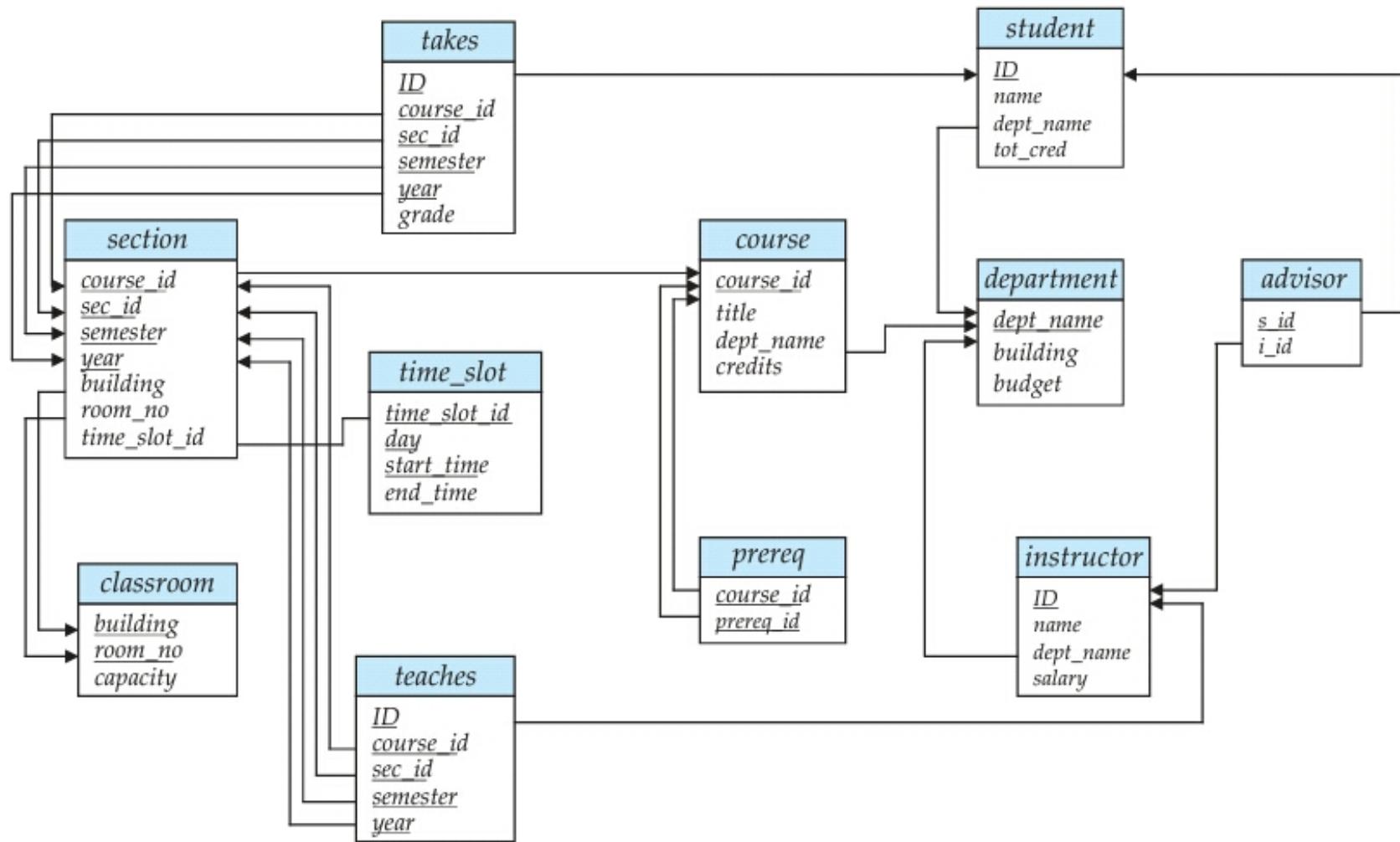
UML Internals



Database Schema (design)

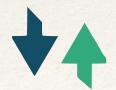
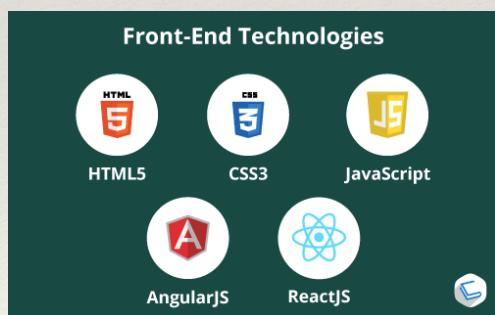
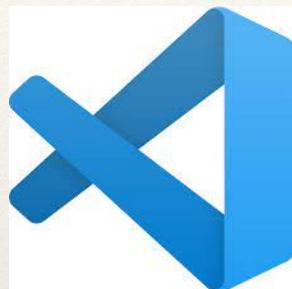






JUST RIGHT, AHHH!

Tools



Piro360



One Pager Write Up

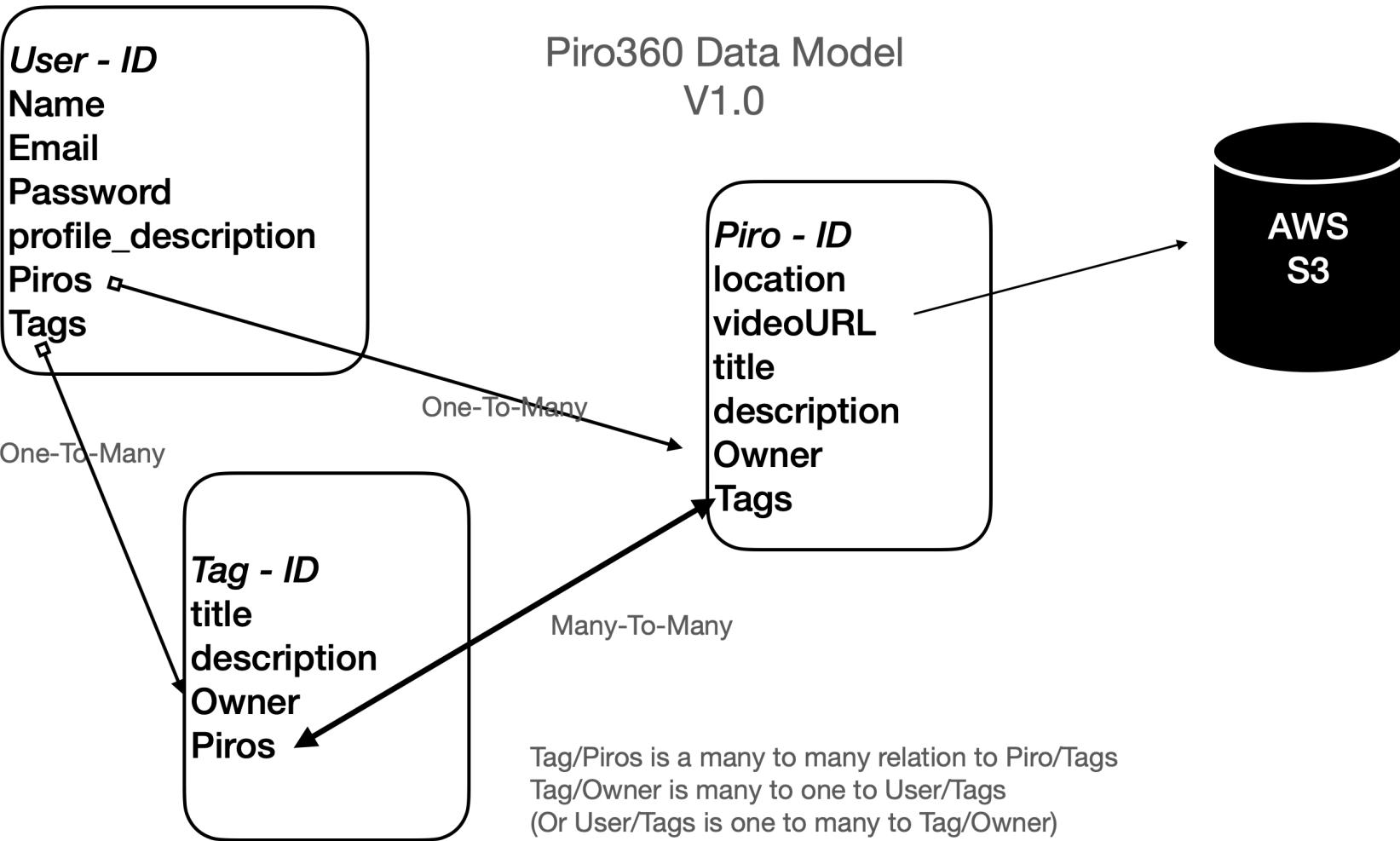
- ❖ Piro360 is a mobile app that lets a user tap a button in the app, and then the user has 10 seconds to pirouette 360 degrees in a circle holding their phone and pointing outward capturing a panorama recording. The app starts the video camera and records for 10 seconds, as the user pirouettes, it records where the user is. When the recording is finished the user can tag the video with tags, and then is given the option to post it to the piro360.com website for the world to see.
- ❖ So if you're someplace cool, and you want to show your friends, do a Piro360!
- ❖ Imagine standing at the top of the Empire State Building and pirouetting around to show your friends the view. Or in the middle of a busy souk in Tangiers, or a tropical beach, or in the lobby of a fancy hotel. Show your friends the world around you.
- ❖ Piro360s will become the new new thing in social media.
- ❖ My MVP will allow a user to record the 10sec video and auto upload it to a simple blog-like site which will show the latest 15 Piro360s.
- ❖ I'll do it using Spring, Java, SQL DB, Heroku and a Angular front end app.



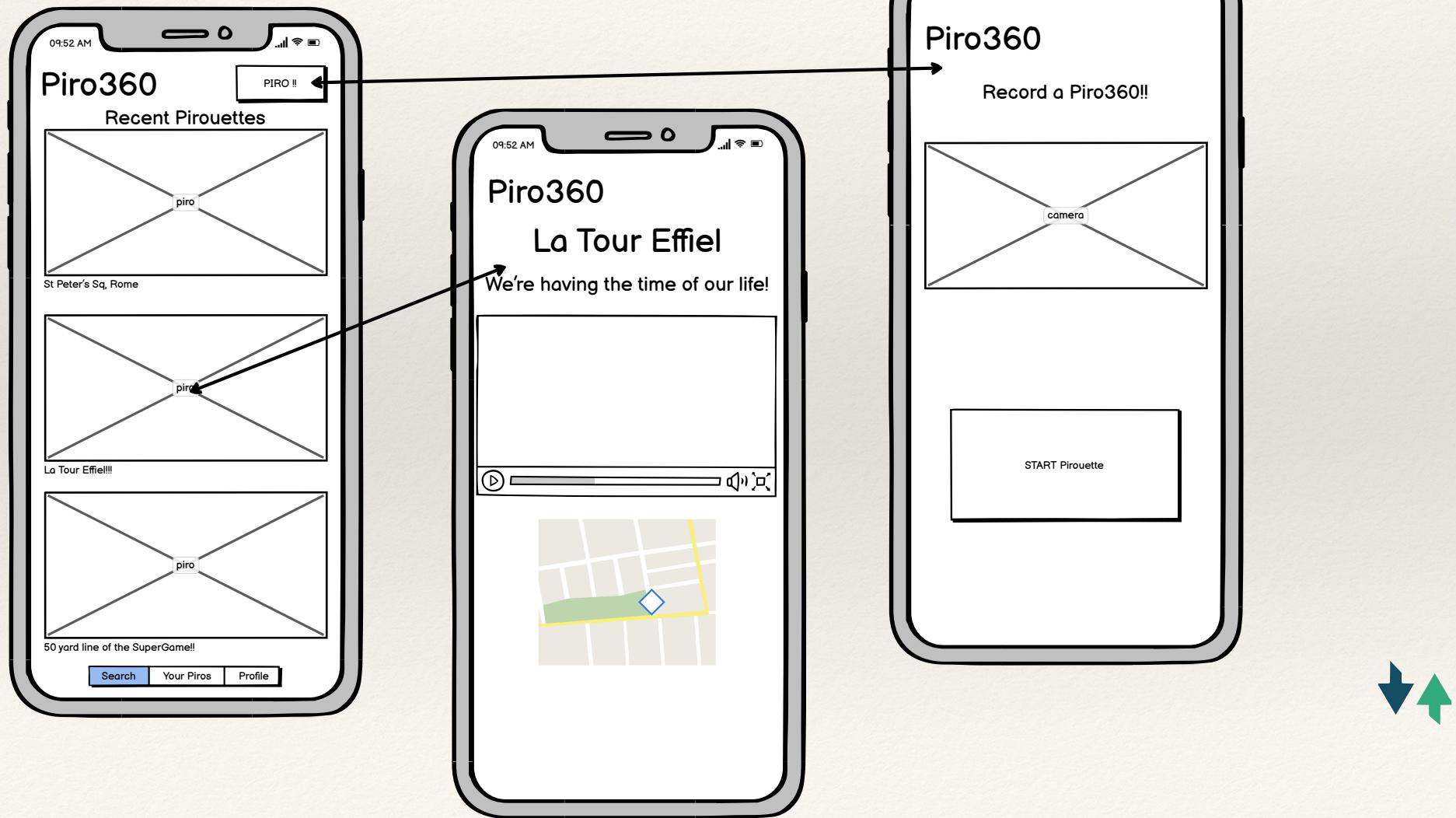
Data Model

User/Piros is a one to many relation to Piro

Piro/Owner is the reverse relation



UX Mockup

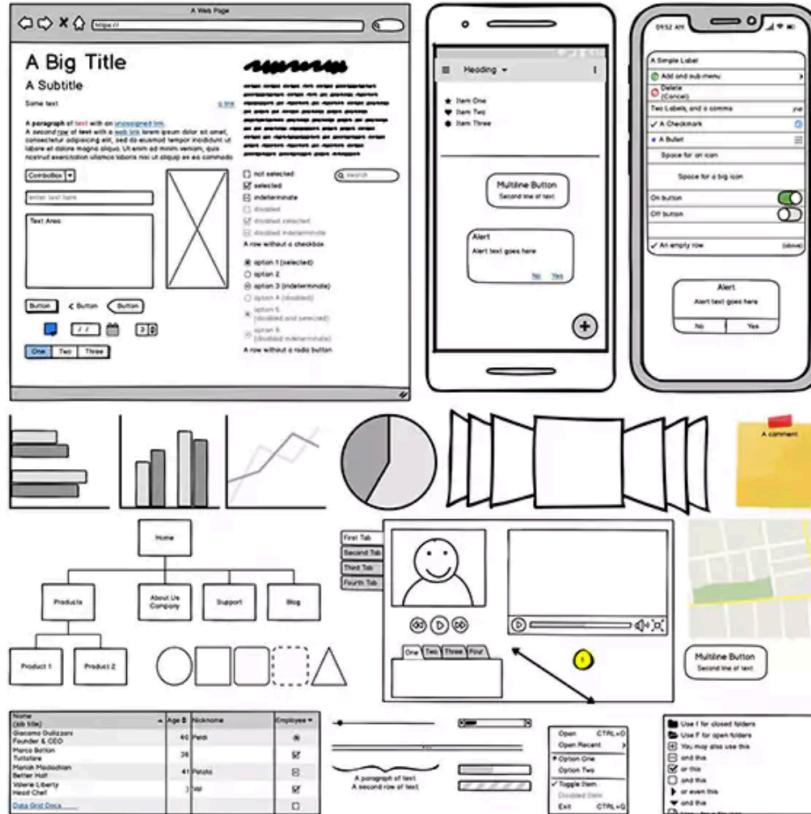


UX/UI Mockup Tools

<https://balsamiq.com/wireframes/>

Sketch-Style Controls

They look like sketches on purpose! It encourages brainstorming.



Clean Wireframes Option

Need to present your work? Switch style and voilà.



Three Things to Start

OnePager
DataModel (UML)
UX/UI Mockup



nano? REAL
PROGRAMMERS
USE emacs



HEY. REAL
PROGRAMMERS
USE vim.



WELL, REAL
PROGRAMMERS
USE ed.



NO, REAL
PROGRAMMERS
USE cat.



REAL PROGRAMMERS
USE A MAGNETIZED
NEEDLE AND A
STEADY HAND.



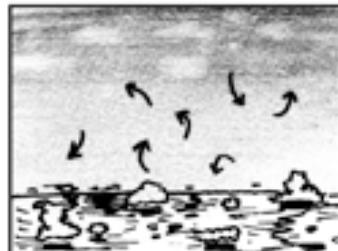
EXCUSE ME, BUT
REAL PROGRAMMERS
USE BUTTERFLIES.



THEY OPEN THEIR
HANDS AND LET THE
DELICATE WINGS FLAP ONCE.

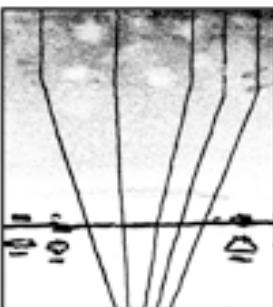


THE DISTURBANCE RIPPLES
OUTWARD, CHANGING THE FLOW
OF THE EDDY CURRENTS
IN THE UPPER ATMOSPHERE.



THESE CAUSE MOMENTARY POCKETS
OF HIGHER-PRESSURE AIR TO FORM,

WHICH ACT AS LENSES THAT
DEFLECT INCOMING COSMIC
RAYS, FOCUSING THEM TO
STRIKE THE DRIVE PLATTER
AND FLIP THE DESIRED BIT.



NICE.
'COURSE, THERE'S AN EMACS
COMMAND TO DO THAT.
OH YEAH! GOOD OL'
C-x M-c M-butterfly...



DAMMIT, EMACS.

“DO. OR DO NOT.
THERE IS NO TRY.

-Yoda

