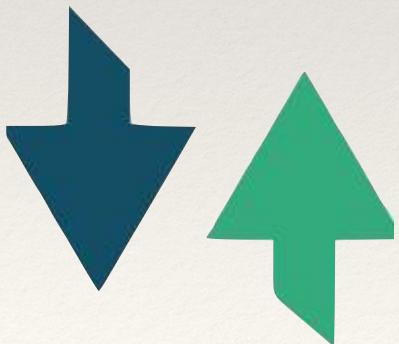


*Zip Code Wilmington*

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# Passion Projects



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

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# Gotta Move On



# Passion Project

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- ❖ 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



# Each project must have–

- ❖ Overview documents of the project
  - ❖ OnePager, DataModel, UX Mockup
- ❖ A plan of phases of the project
  - ❖ The issue tracker in the repo must track what's being worked on
  - ❖ Each section of the app needs to keep pages on its design, progress and bugs (using Issues)



# Designs

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- ❖ UML diagrams and specs must be kept, seriously.
- ❖ The Data Model must documented
- ❖ UI/UX should be done in Javascript
- ❖ The app server must be based on spring.io
- ❖ API design docs, for each segment where a protocol needs to be used for data communications.
- ❖ Design Patterns are encouraged

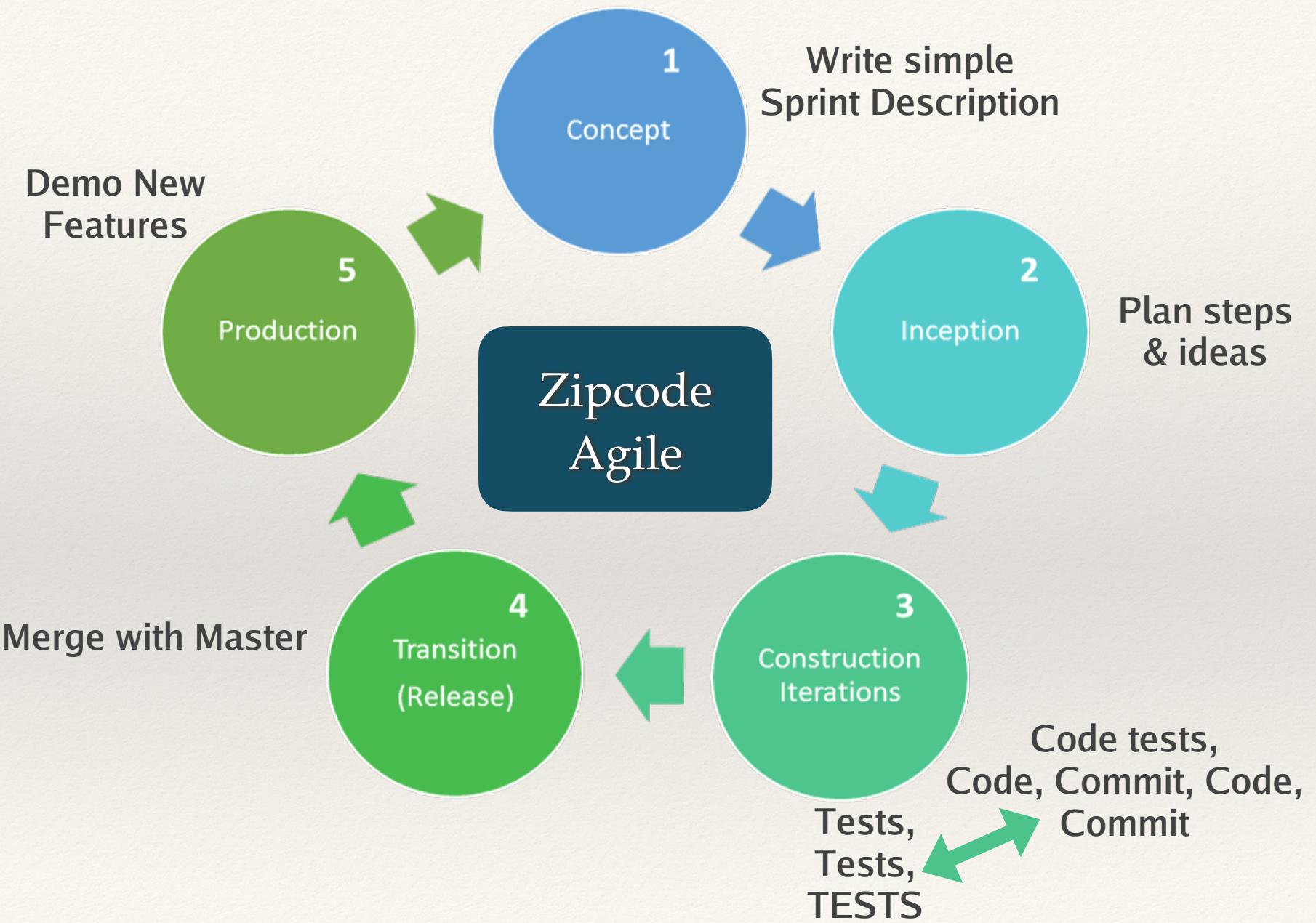


# Agile Methodology

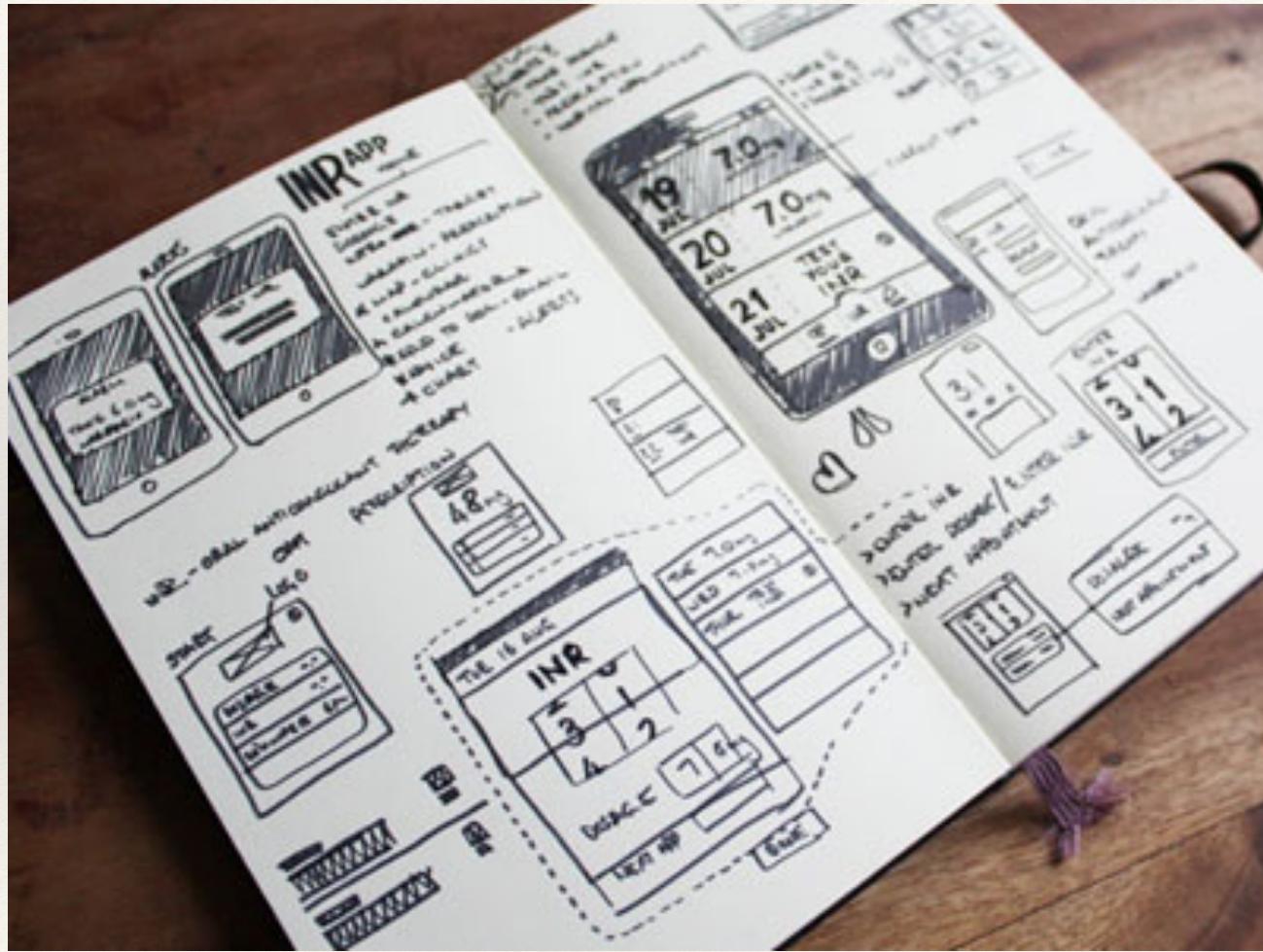
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- ❖ Your project work should be in agile sprints
  - ❖ commit histories are important
  - ❖ multiple commits should be done daily on all work
- ❖ All sprints end with a complete merge back to the master branch
- ❖ The project should start with simple 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.

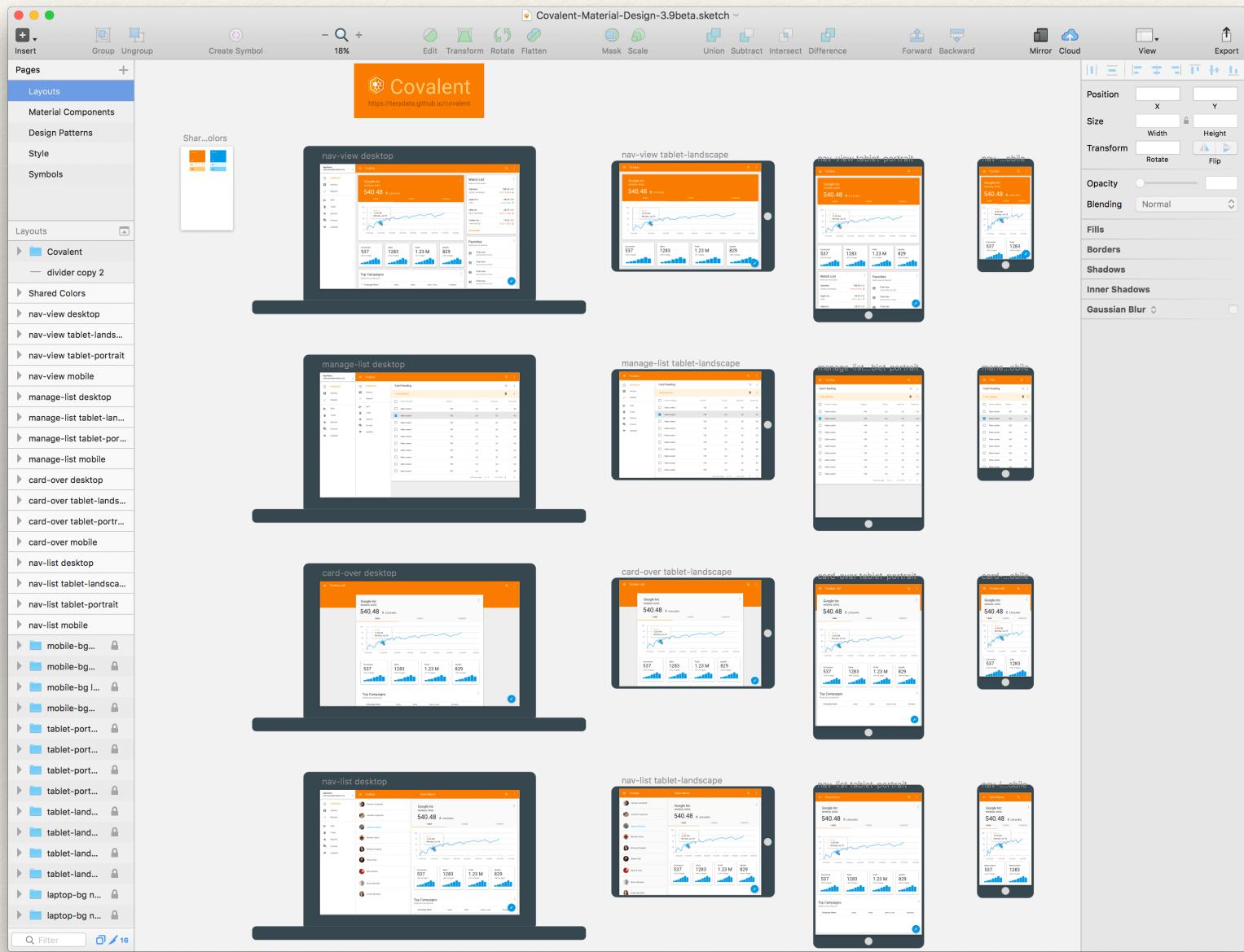




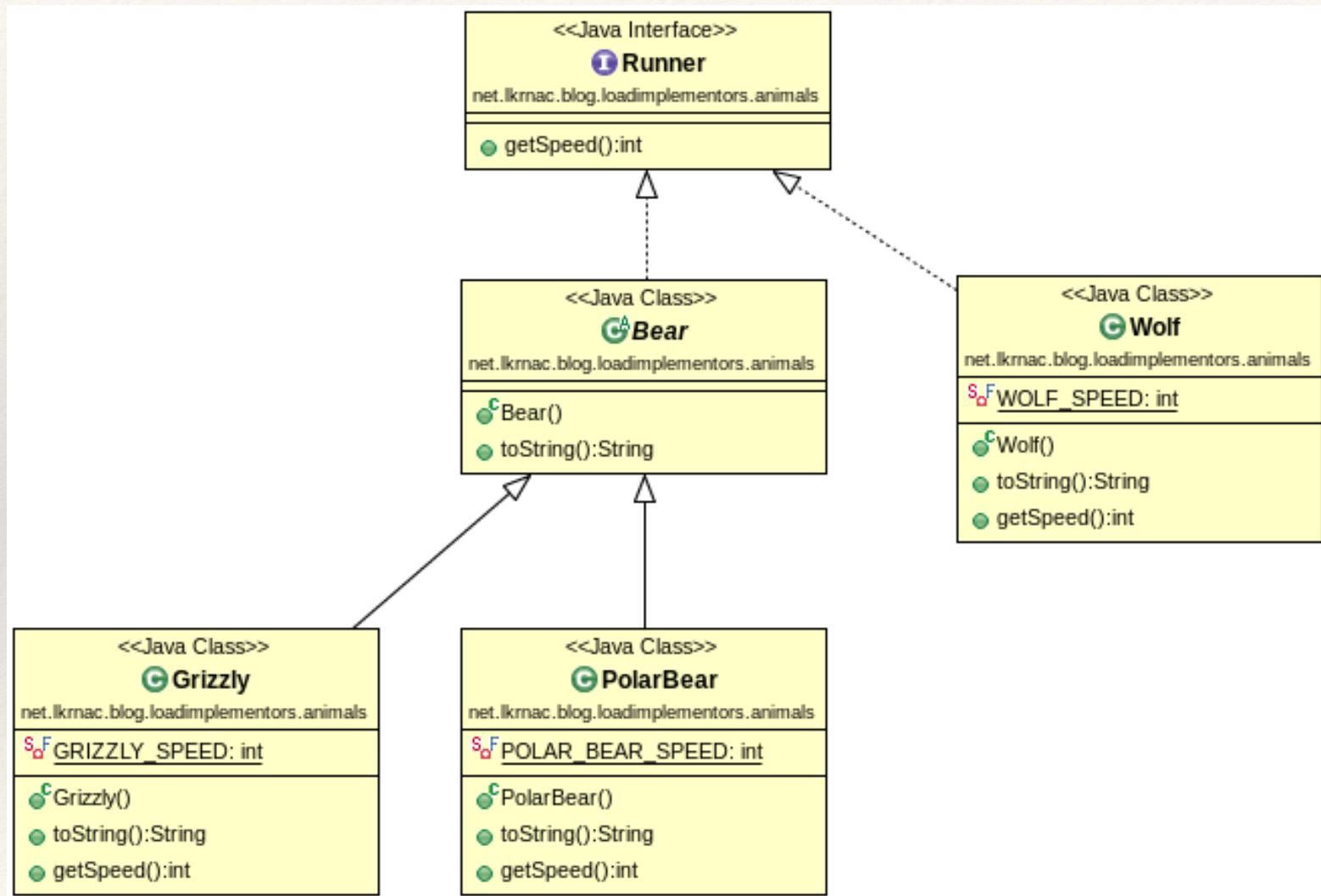
# UI Design



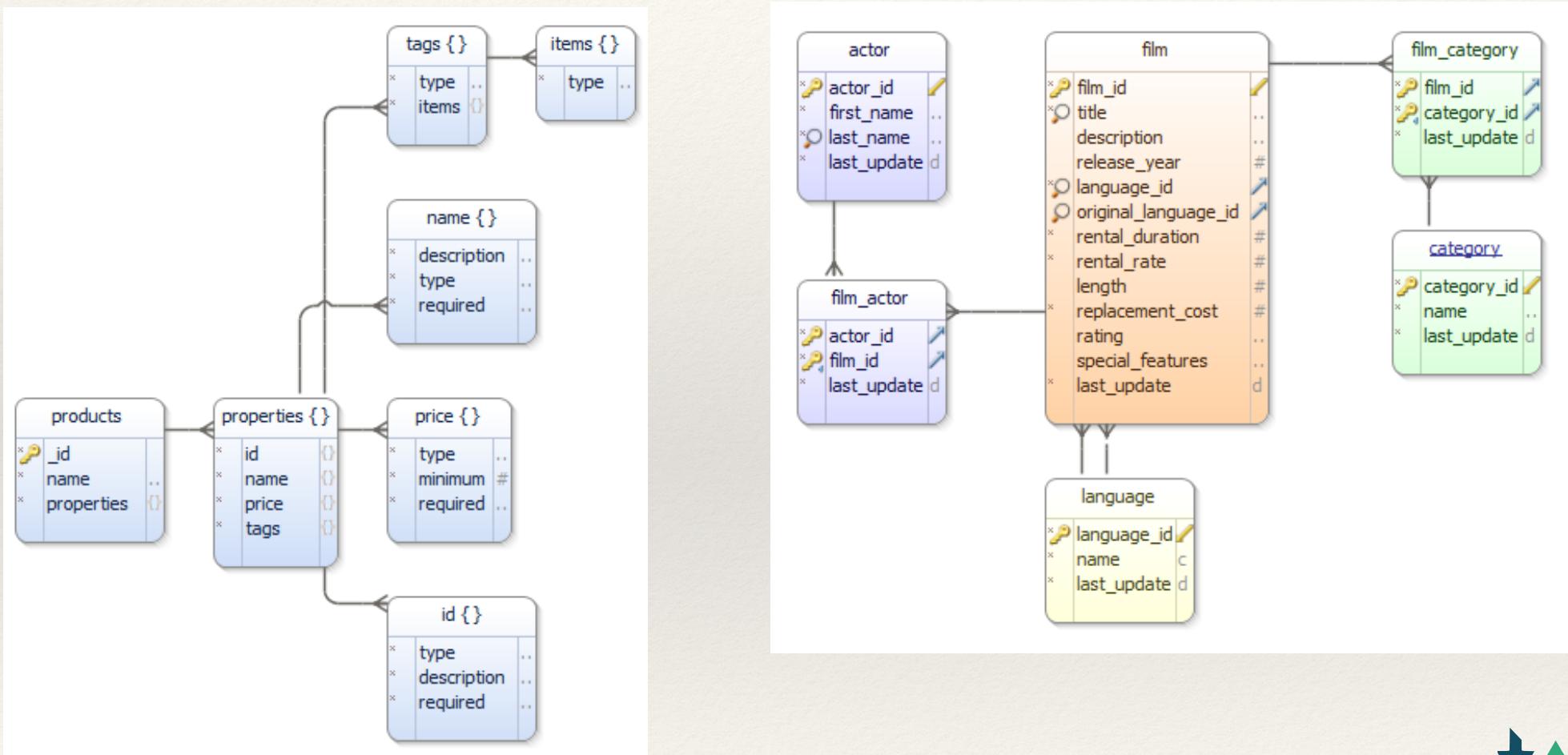
# UI Design

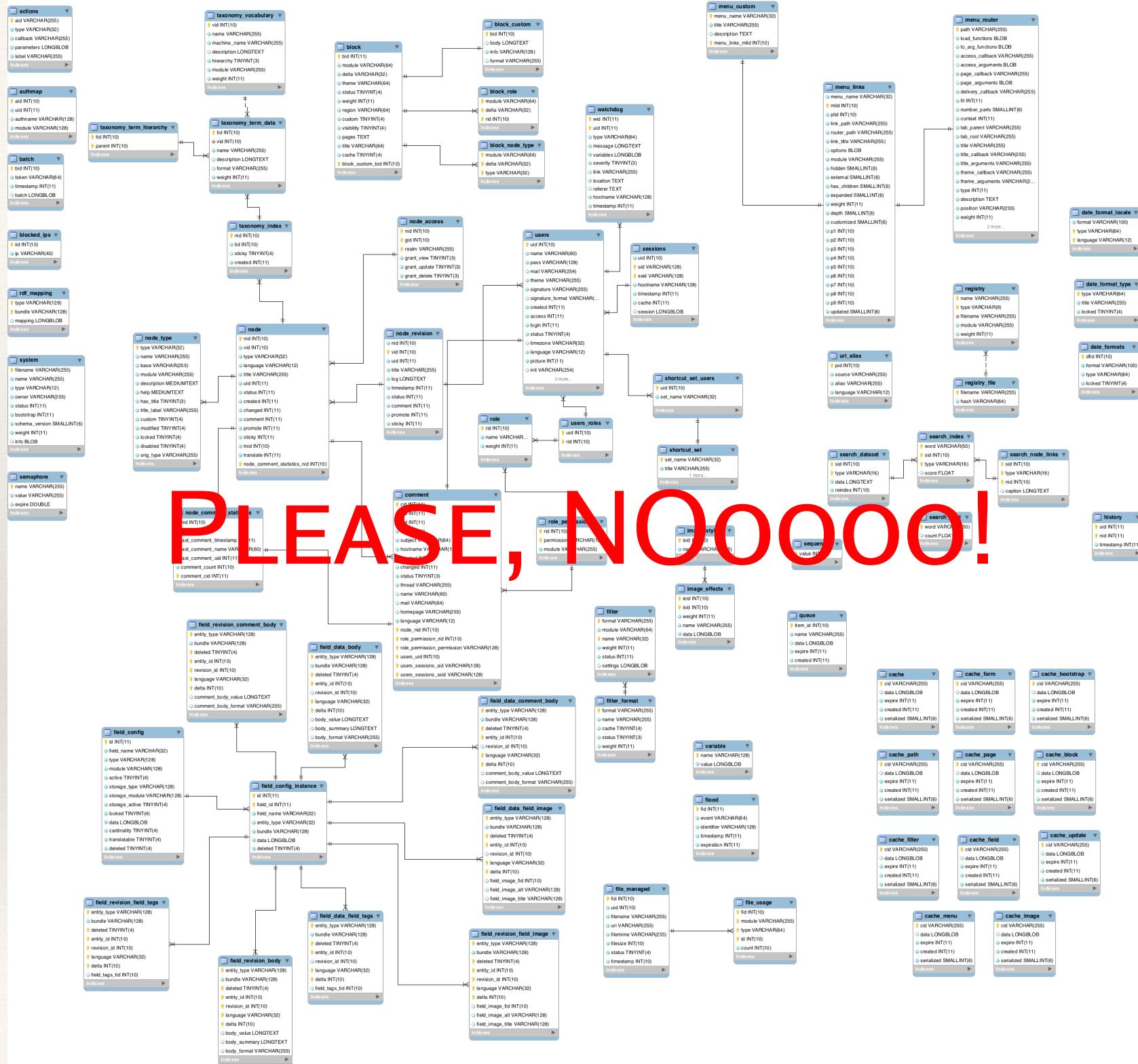


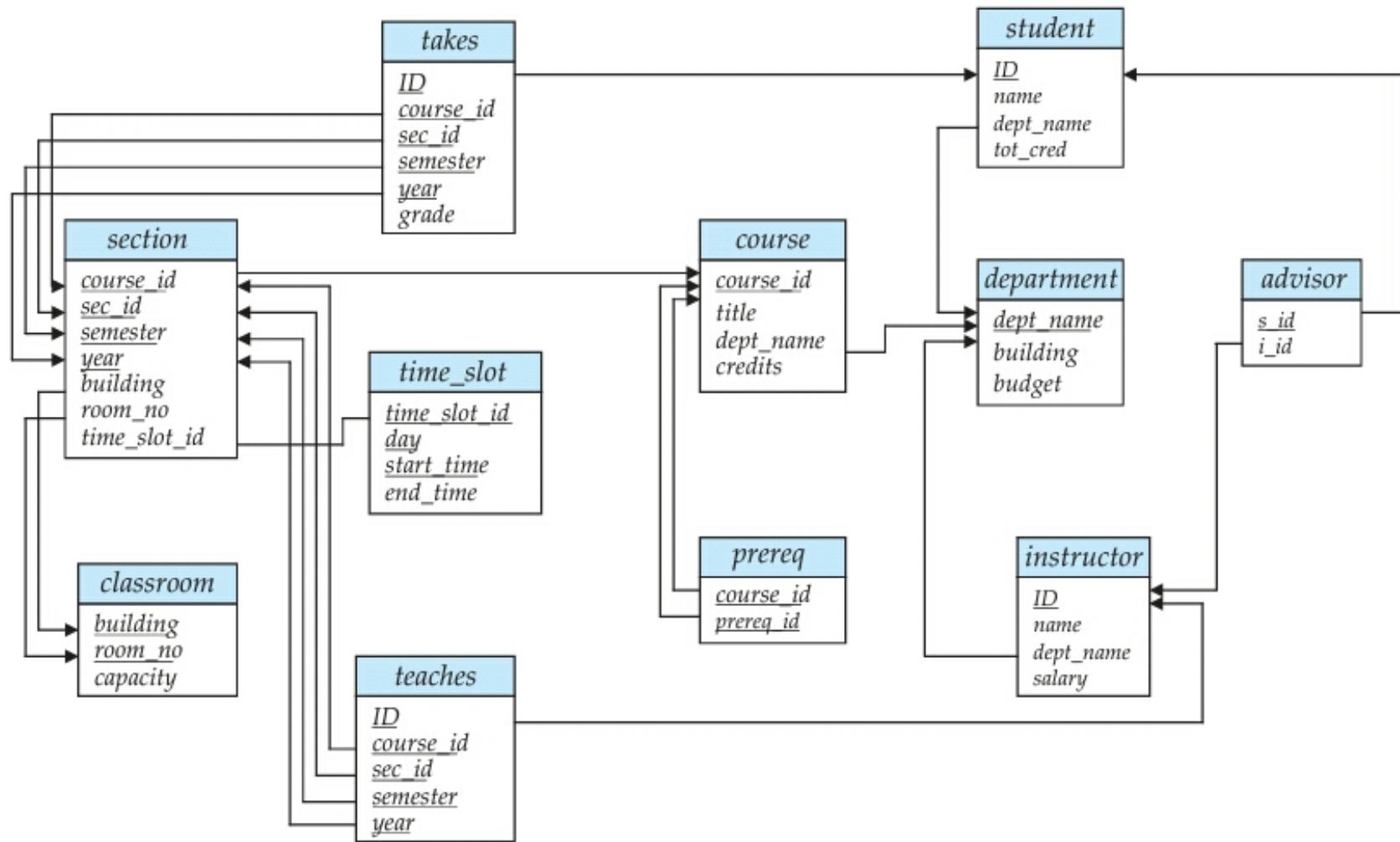
# UML of Data Model



# Data Model







# JUST RIGHT, AHHH!

# Piro360



# One Pager Write Up

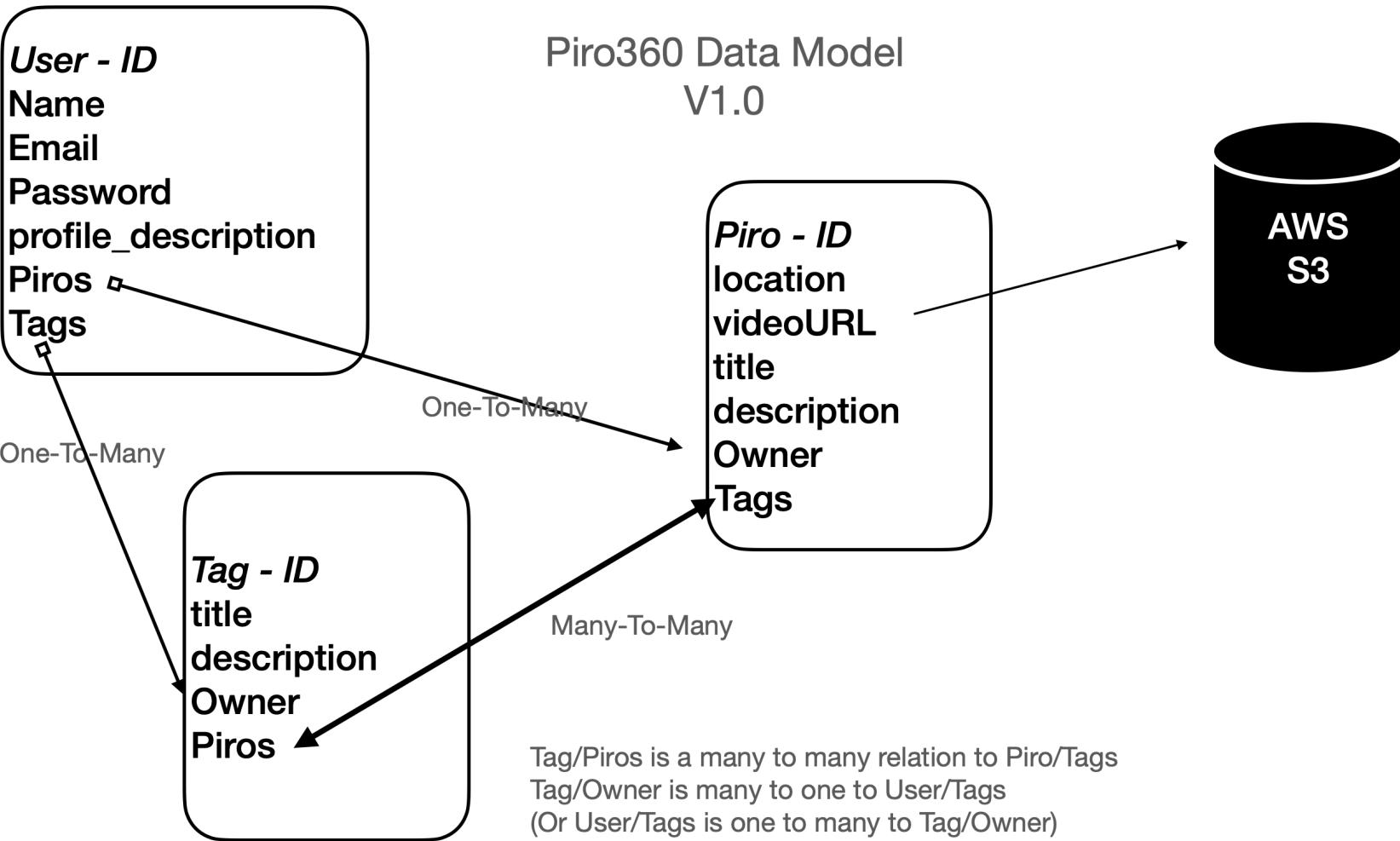
- ❖ Piro360 is a mobile app that lets a user tap a button in the app, and then the user has 10 seconds to pirouette 360 degrees in a circle holding their phone and pointing outward capturing a panorama recording. The app starts the video camera and records for 10 seconds, as the user pirouettes, it records 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.



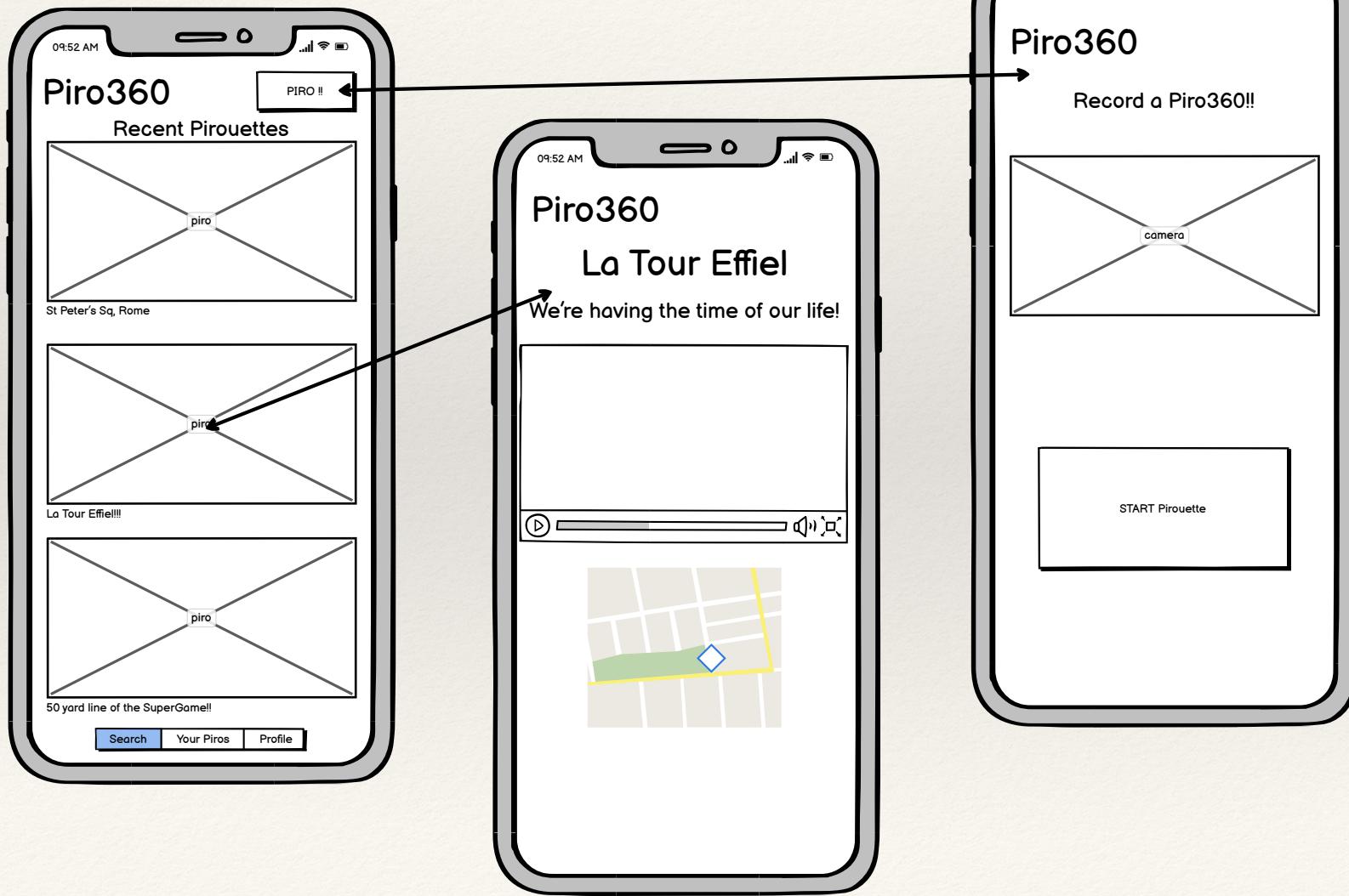
# Data Model

User/Piros is a one to many relation to Piro

Piro/Owner is the reverse relation



# UX Mockup

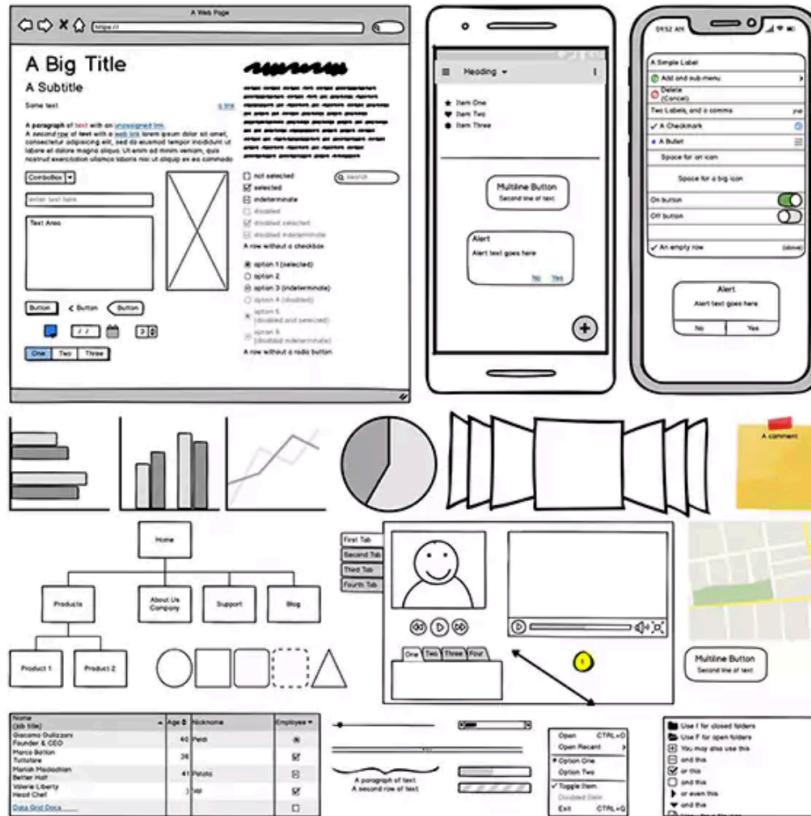


# UX/UI Mockup Tools

<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

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OnePager  
DataModel (UML)  
UX/UI Mockup



## Tools...

nano? REAL  
PROGRAMMERS  
USE emacs



HEY. REAL  
PROGRAMMERS  
USE vim.



WELL, REAL  
PROGRAMMERS  
USE ed.



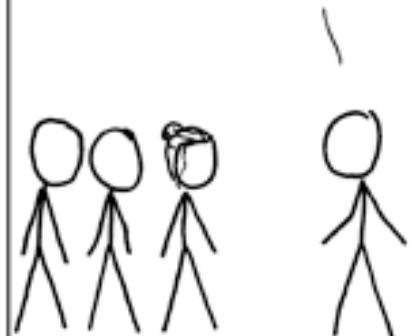
NO, REAL  
PROGRAMMERS  
USE cat.



REAL PROGRAMMERS  
USE A MAGNETIZED  
NEEDLE AND A  
STEADY HAND.



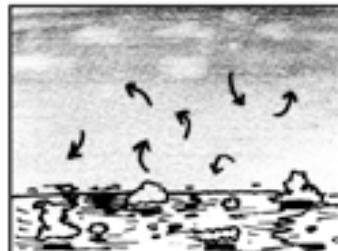
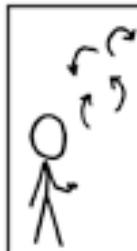
EXCUSE ME, BUT  
REAL PROGRAMMERS  
USE BUTTERFLIES.



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

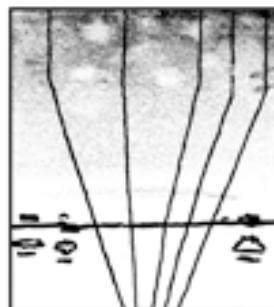


THE DISTURBANCE RIPPLES  
OUTWARD, CHANGING THE FLOW  
OF THE EDDY CURRENTS  
IN THE UPPER ATMOSPHERE.



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.