### Planning your Final Project

Or: BUILD ALL THE THINGZ!!



#### What's the Big Idea?

"Wouldn't it be cool if we had an app that did ?"

"Let's build X for Y!"



## DATA



#### **Everything starts with data**

What is the data you can access or acquire?

Can you correlate that data to something else?

How can you pivot that data to add value?



# FEATURES VS. BENEFITS



# UNIVERSAL VALUES

Look good

Feel good

Save time

Save money





## TRIFECTA Of Planning



## USER STORIES

Remember these?





#### User should be able to save story

As a user I want to save a story I'm reading Because I found it useful

Given that I'm reading a story
When I tap the icon to save a story
Then save it to my 'Saved Stories'
'And' And alter the *icon* to indicate success

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## The Five MOST Dangerous Words in Software Development...

#### Wouldn't it be cool if....





# The A-HA moment matters.



### FEATURE COMPLETE

#### SHIP A PRODUCT!



## DEPLOYMENT



#### **MANY Options**





http://localhost:3000













#### **Domain Names**

- If you're buying one, expect to pay between \$4 and \$35 depending on the TLD you buy
- Excellent experience configuring nameservers and setting up hosting
- 1 year commitment, minimum

## DATABASE



#### How are you storing your data?







mongoDB®











#### **ERD - Entity Relationship Diagram**





LIGHTHOUSE LABS

# MODELS are NOUNS



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## PICKA LANGUAGE



















### ROUTES



#### You have to plan your routes

Front-end or back-end?

What manages them?

RESTful conventions

"If models are nouns, routes are the verbs."



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## WIREFRAME





Company Name + Logo

Home | Services | Portfolio | Contact

#### **Image**

#### Headline

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

#### What We Do

#### Core Features

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris lacus lacus, semper a blandit et, eleifend et lacus. Vivamus eu ant e sed turpis dignissim ven en atis.

#### Packages

#### Why us?

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris lacus lacus, semper a blandit et, eleifend et lacus. Vivamus eu ante sed turpis dignissim venenatis.

#### Offers

#### Testimonials

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris lacus lacus, semper a blandit et, eleifend et lacus. Vivamus eu ante sed turpis dignissim venenatis.

#### Footer

#### Wireframing IS:

- Data hierarchy

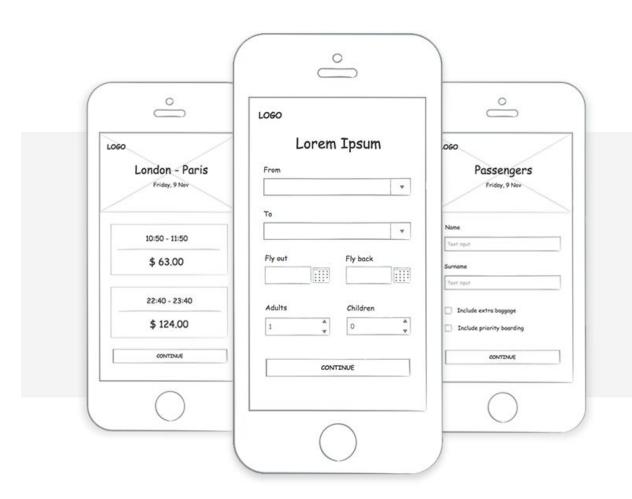
- Navigation

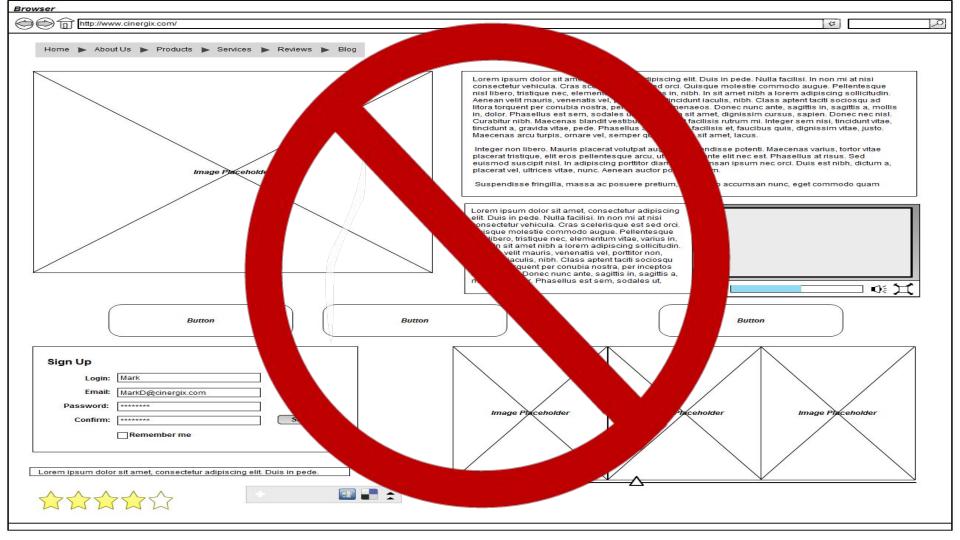
- Proportion



#### Great wireframes:

- DemonstrateUI / UX
- Line up with user stories
- Define interactions clearly

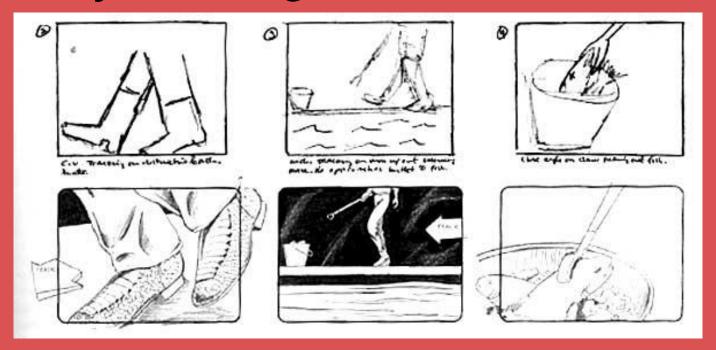




## STORYBOARD



#### Storyboarding in a comic / movie





## DESIGN



#### A WISE Man once said:



"Doing Development WITHOUT a Design is LIKE DOING ORIGAMI BLINDFOLDED.

Yes, you will get FOLDED Paper, it will not be a pretty crane."

#### Design matters.

#### HOWEVER

You are developers, not designers!

Use resources like Dribbble, FolioFocus, and Smashing.



### UI FRAMEWORK



#### **Bootstrap**

Groundwork

**Black Hole** 

Skeleton

Bulma

Min

Bourbon

+ Neat

**PureCSS** 

**Foundation** 



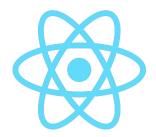
# FRONT-END FRAMEWORKS

\* - You're still not ready to code.











- Employable <a>I</a>
- Cool 🛛
- Fits the project ✓
- Want to learn the technology ✓





- Project structure will change
  - Backend is an API now
  - RESTful Or
  - WebSockets







## GIT

\* - You're still not ready to code.

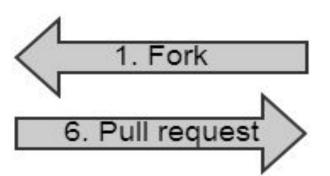


#### Remember W1D1? And W4D3?

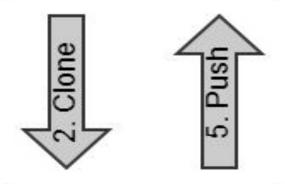




Your GitHub repo github.com/you/coolgame



Joe's GitHub repo github.com/joe/coolgame



Your computer

Update a file
 Commit

# GitHub Workflow



#### Please...

### Don't code on master!



### SCAFFOLDING

\* - You're almost ready to code.





#### CHECKLIST FOR SCAFFOLDING

- Set up GitHub repository, add collaborators
- Download / Install all resources
- Use CDN links whenever possible
- Make sure your app loads, after installing things
- Push app to GitHub, so team can clone
- Decide on team responsibilities



# DIVIDING TASKS

\* - You're practically ready to code.



#### Tasks can be divided according to:

- Front-end
- Back-end
- APIs
- JS
- Database
- Feature

- Paired
- Migrations
- Responsive
- Deployment
- Whatever works



### READY TO CODE!



### Tips for Front-end Scaffolding

- Start with static pages first. If the CSS doesn't work here, making it dynamic won't help.
- Decide on class and ID nomenclature. This is a team process!
- Use placeholders like fillmurray.com and Ipsum generators (Bacon Ipsum, Hipster Ipsum, etc)
- Try your layouts with different quantities of data. Don't always put in "good" data, either.

LIGHTHOUSE

#### Tips for Back-end Scaffolding

- Start with your models, always.
- Decide on callbacks and validations first.
- Make sure it works in the CLI before trying to make it work in your app.
- Code atomically! Use helper methods. Refactor.



### COMMUNICATION

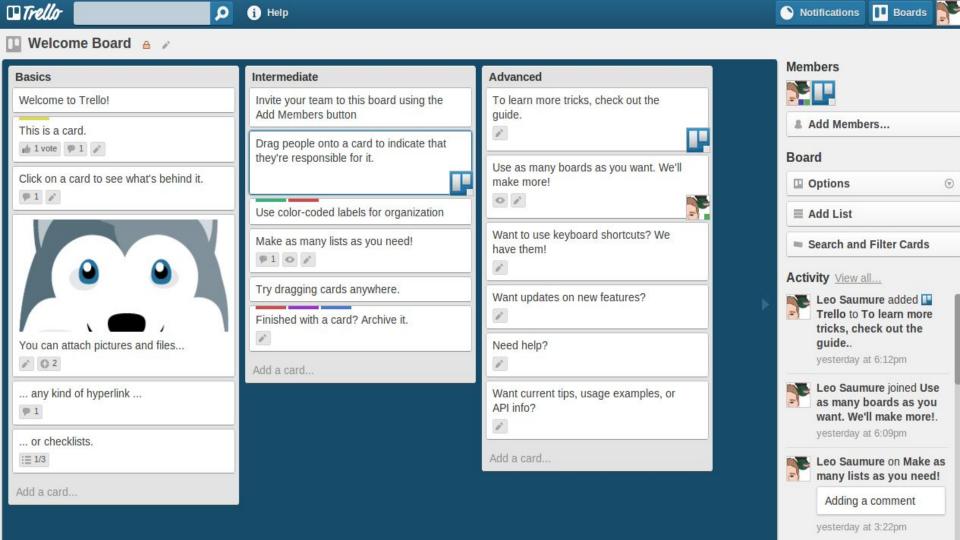


### There are many communication tools



Pick one!







### Thank you.

