

# Planning Your Mid-Term

Or: Why you're not ready to code yet

# Pick a project

1. Wiki Map
2. Card Game
3. Decision Maker
4. Smart TODO List
5. Resource Wall
6. Schoodle
7. Food Pick-Up Ordering

# Where do I start?

# 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

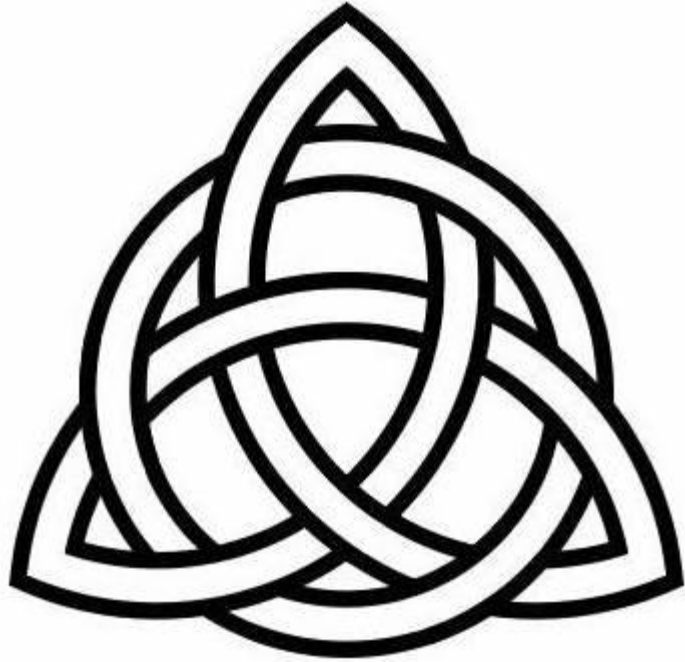
# UNIVERSAL VALUES

Look good

Feel good

Save time

Save money



# TRIFECTA OF PLanning



# USER STORIES

\* - You're not ready to code.



# What is a **User Story**?

*“As a \_\_\_\_\_,  
I want to \_\_\_\_\_  
Because \_\_\_\_\_.”*

# Another variant on a **User Story**

*“As a \_\_\_\_\_,  
I should be able to \_\_\_\_\_  
Because \_\_\_\_\_.”*

# User Scenarios

*“Given \_\_\_\_\_*

*When \_\_\_\_\_*

*Then \_\_\_\_\_.”*

Title User should be able to save story

Traditional  
User Story

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

Scenario

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

Additional info

INFO  
*icon* = bookmark icon  
Design - [URL for design / assets]

## User should be able to save story

As a user

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Because I found it useful

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Design - [URL for design / assets]

# FEATURE COMPLETE

WAIT, WHAT IS AN MVP?









**Decide on your  
A-HA  
moment.**

# DEPLOYMENT

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

## Two Options

`http://localhost:3000`

Deploying to  **HEROKU**

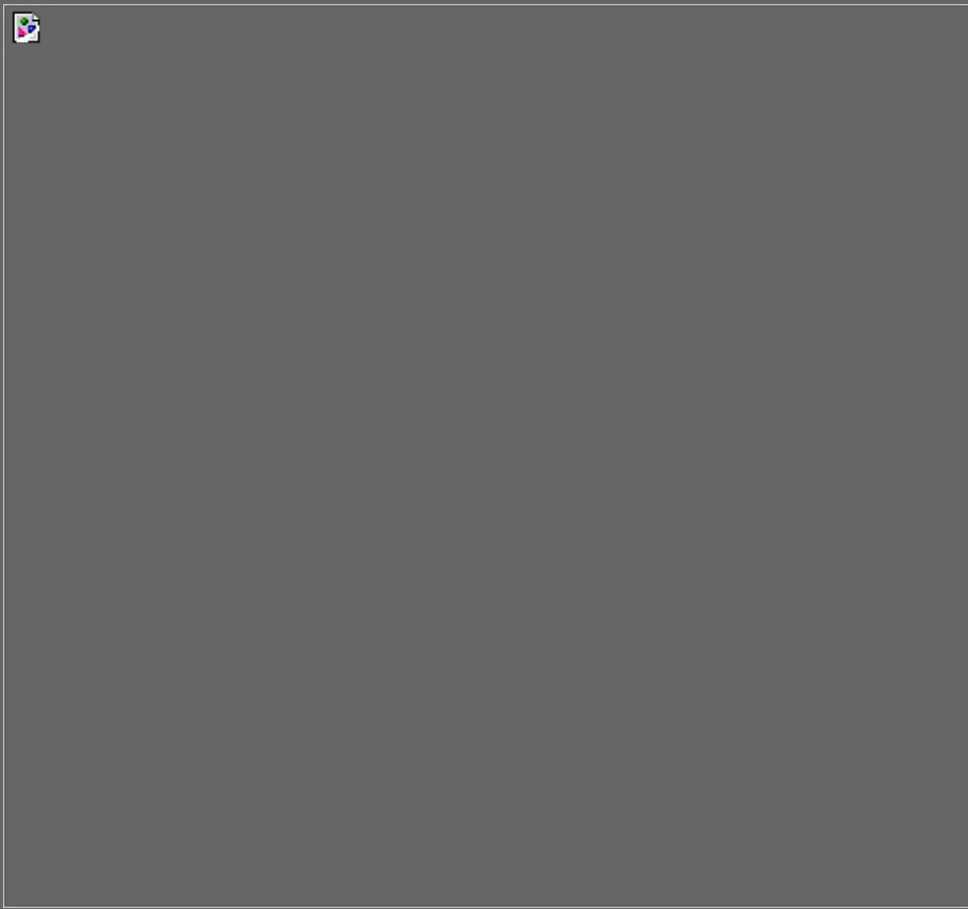
# If you aren't going to demo it... **DON'T BUILD IT**

- FAQ / About pages
- Signup pages
- `<controversy>Login pages</controversy>`

# ERD

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





**TABLES**  
are  
**NOUNS**

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# SERVER FRAMEWORK

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

For your Mid-Terms, this one is easy:



express

# ROUTES

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

# You have to plan your routes

Points to consider:

GET vs. POST vs. PUT/PATCH vs. DELETE

Params in URLs?

RESTful conventions

If tables are nouns, routes are the verbs.

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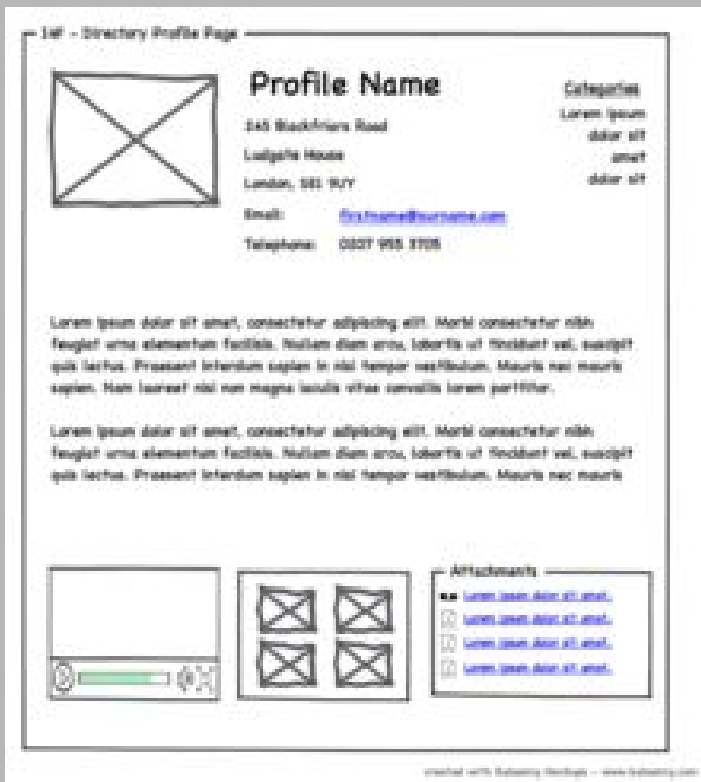
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# WIREFRAME


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



# What is this wireframe of which you speak?



Wireframes are a way to describe layout, define data hierarchy, and demonstrate interactions.



Yep, makes sense.

# Title goes here

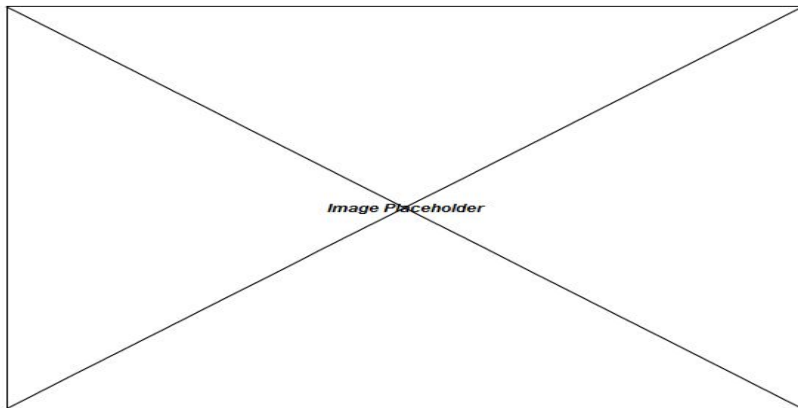
*Totally.*

[illegible]

## Notifications

# WTF?





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Button

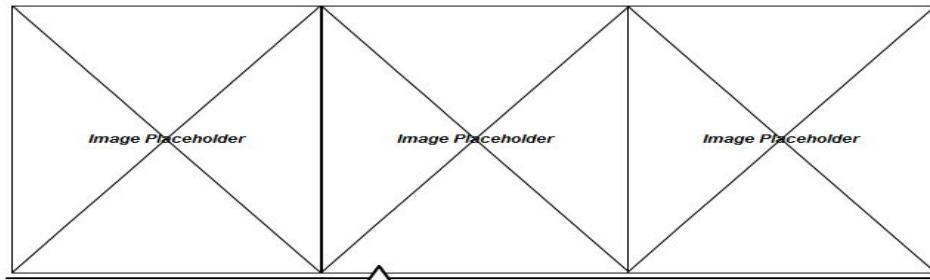
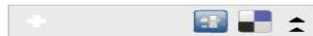
Button

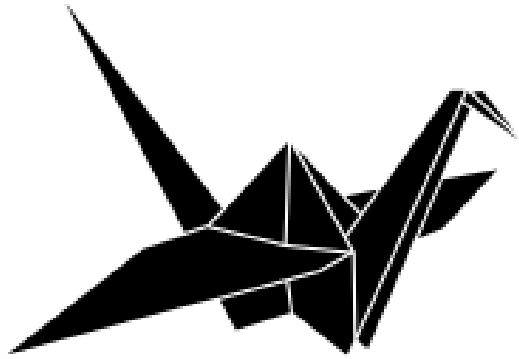
Button

### Sign Up

Login: Email: Password: Confirm: ☐ Remember me**Sign Up**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis in pede.





*A wise man once said:*

*"DOING DEVELOPMENT  
WITHOUT A DESIGN IS  
LIKE DOING ORIGAMI  
BLINDFOLDED."*

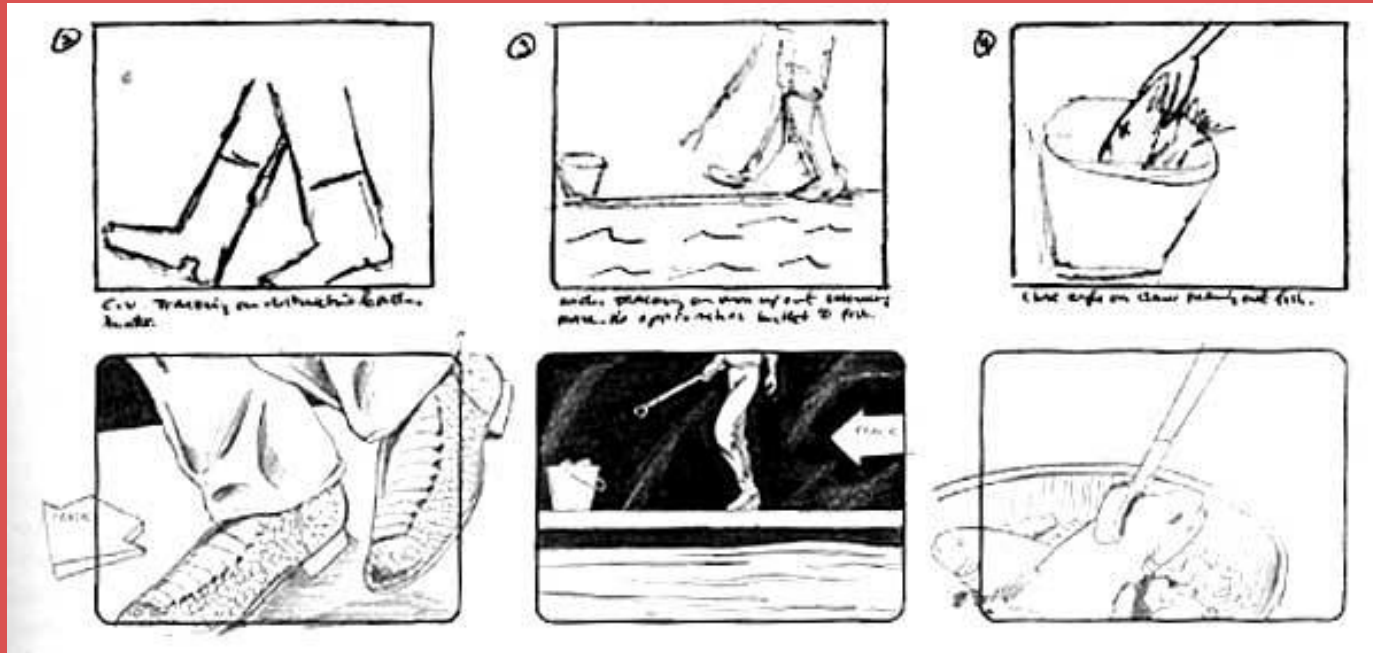
*YES, YOU WILL GET  
FOLDED PAPER, IT WILL  
NOT BE A PRETTY CRANE."*

# Storyboarding

Storyboarding is the art of telling a story in a chronological format. Deciding what the scenes are, how they progress from one point in time to another, is important to be able to tell the story.

This applies to the web as well.

# Storyboarding in a comic / movie



# Wireframing for the web is the same

You want to set up a timeline of your user workflow. Figure out what the ideal path is for users to take when going through the features you're building.

Guess where you can get that path from?

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Design - [URL for design / assets]

# DESIGN

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

# Design matters.

# HOWEVER

You are developers, not designers!

Use resources like Dribbble, FolioFocus, and Smashing.



# UI FRAMEWORK

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

# Grids make building easier

They	allow	you to	place
content	easily	on the	page.

But which one do I use?

Bootstrap

Groundwork

Black Hole

Skeleton

Bourbon  
+ Neat

Bulma

PureCSS

Min

Foundation

# Which one do I use?

Nice and easy!

**B** Bootstrap

OR

Foundation  
ZURB

LIGHTHOUSE  LABS

# GIT

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

*Remember talking about  
this on Day 1?*

# Use good git practices!!

1. Clone
2. Branch
3. Code! \*
4. Checkout master
5. Pull \*
6. Merge \*
7. Push
8. Repeat from Step 2

\* - TEST!



Please...

Don't code on master!

# SCAFFOLDING

\* - You're *almost* ready to code.

A photograph of two men sitting at a desk, looking at a laptop. The man on the left is typing on the keyboard, while the man on the right, wearing a flat cap, looks on. A lava lamp and a multi-line office phone are on the desk. The background has framed pictures on the wall. The entire image has a warm, orange-yellow color overlay.

# PAIR PROGRAMMING *is Fun*

LIGHTHOUSE  LABS

# 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!





LIGHTHOUSE LABS



# 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.

# Tips for Back-end Scaffolding

- Start with your **data objects**, always.
- Make sure it works in the **REPL** before trying to make it work in the app.
- Code atomically! Use helper methods. Refactor. Modularize.

# COMMUNICATION

# There are many communication tools



Pick one!



No, seriously...

# Anything! Just use it!



## Welcome Board

## Basics

Welcome to Trello!

This is a card.

1 vote 1

Click on a card to see what's behind it.

1



You can attach pictures and files...

2

... any kind of hyperlink ...

1

... or checklists.

1/3

Add a card...

## Intermediate

Invite your team to this board using the Add Members button

Drag people onto a card to indicate that they're responsible for it.

Use color-coded labels for organization

Make as many lists as you need!

1

Try dragging cards anywhere.

Finished with a card? Archive it.

Add a card...

## Advanced

To learn more tricks, check out the guide.

Use as many boards as you want. We'll make more!

Want to use keyboard shortcuts? We have them!

Want updates on new features?

Need help?

Want current tips, usage examples, or API info?

Add a card...

## Members



Add Members...

## Board

Options

Add List

Search and Filter Cards

Activity [View all...](#)

Leo Saumure added Trello to To learn more tricks, check out the guide..

yesterday at 6:12pm



Leo Saumure joined Use as many boards as you want. We'll make more!.

yesterday at 6:09pm



Leo Saumure on Make as many lists as you need!

Adding a comment

yesterday at 3:22pm



**Thank you.**