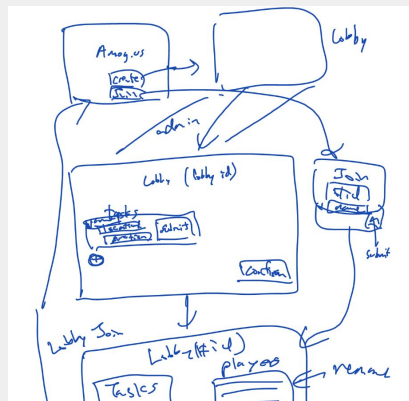


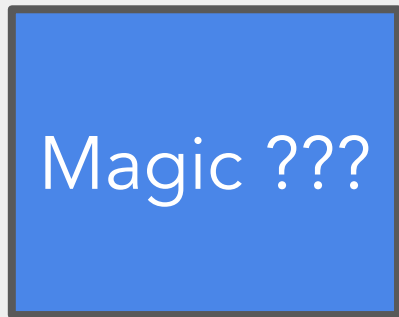
# Getting Started on Your Project

Nick Tsao

# Dilemma of weblab



wireframe



2022. imagine

main division



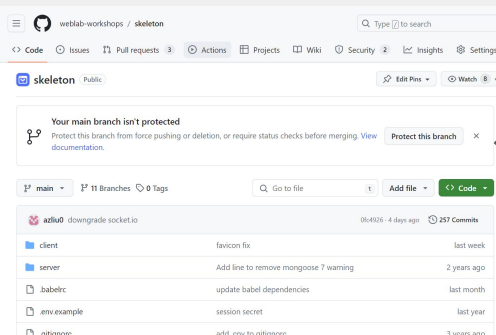
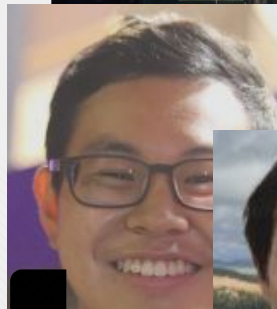
1st Place

**Fortuna**

by Kenneth Choi, Michael Casillas

Chat and play casino  
users, mint your own  
view and trade your

[fortuna-2022.heroku](#)



skeleton

What are your main  
features?

# Prioritization

What are your main features?

Pick the **most important** ones to work on first

- What features does your app require?
- What features does your app really want but could technically do without?
- What features are nice but optional?

Some stuff working is better than a lot of stuff not working

# Idea to Reality

You've picked a feature to start with:

- **Step 1:** What do you want to show to users?
  - This is your wireframe
- **Step 2:** Convert to React components (front-end)
  - You can use dummy data for now
- **Step 3:** Add server-side API connections
  - Make endpoints on your server to send data
  - Call endpoints from your client to get/change data
- **Step 4:** Add database (if necessary)
  - Make mongo schemas to store data for long term if necessary

## Example Full-Stack Design: Profile

- Creating detailed wireframes
- Creating a component tree
- Designing APIs
- Designing database schemas

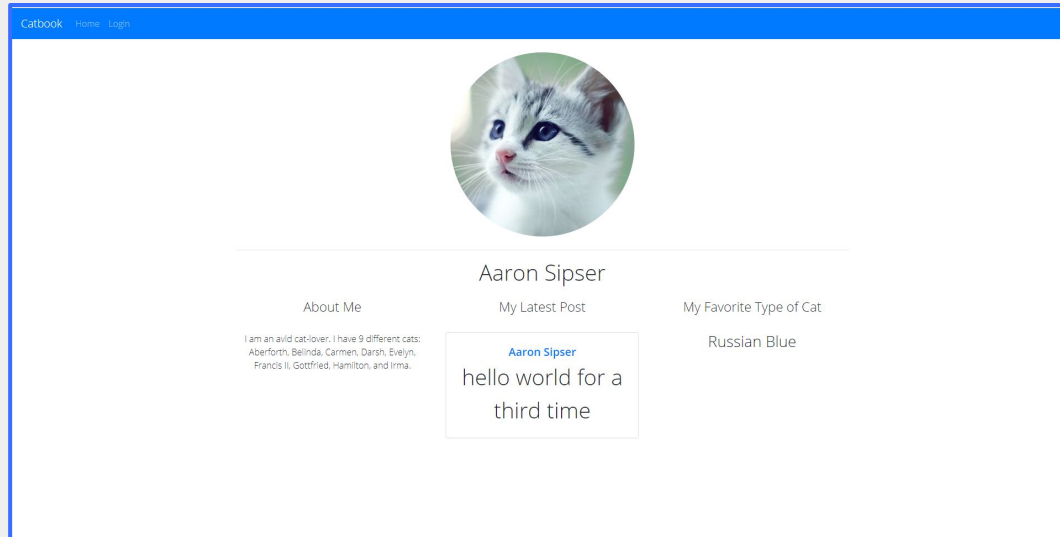
# Example Full-Stack Design: Profile

Visual display of information about a user

# Example Full-Stack Design: Profile - Wireframing

Feature: Visual display of information about a user

How to Design: Ask “What do we want to show?”



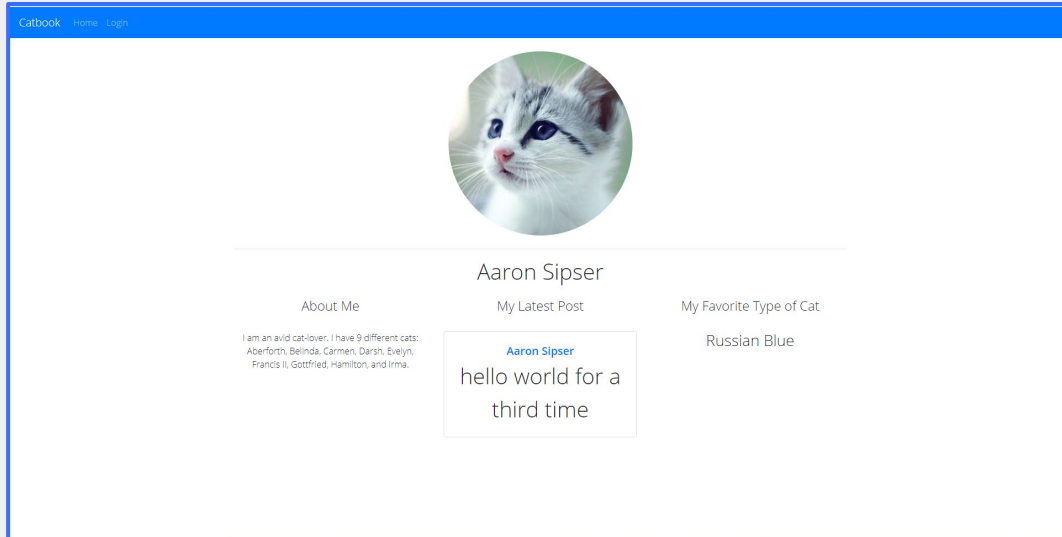
**TODO:**  
**Figma**  
**Figure out what**  
**redirects where**



# Example Full-Stack Design: Profile - Front-End

Feature: Visual display of information about a user

How to Design: Ask “How to translate to frontend? (React)”

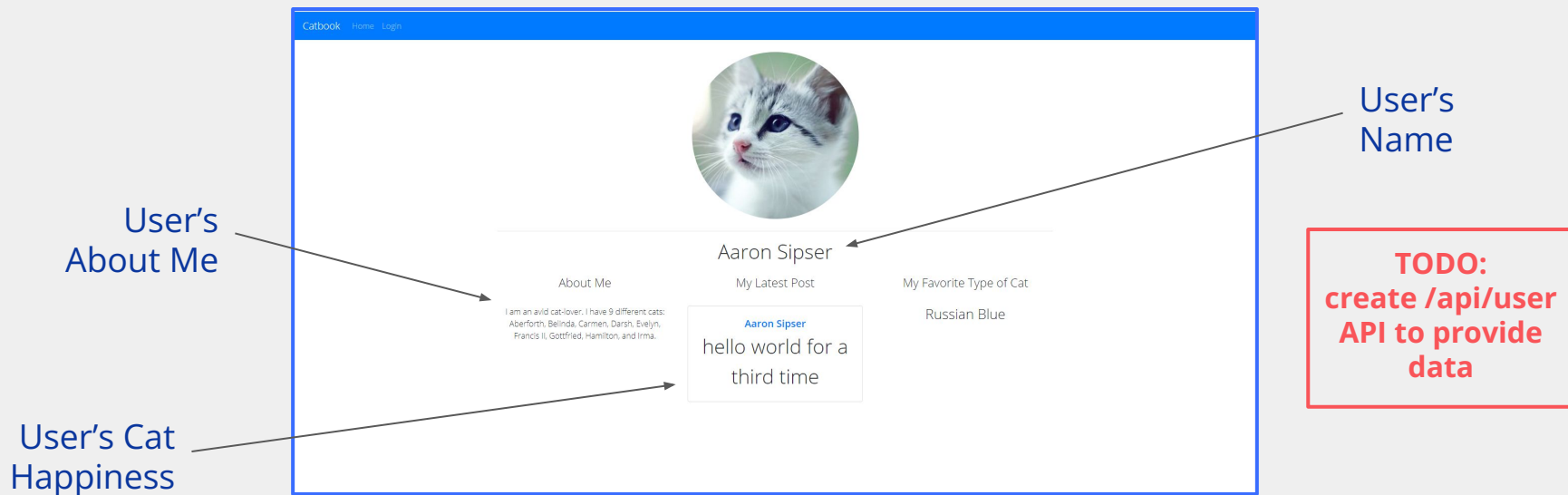


**TODO:  
create  
profile.css,  
profile.js**

# Example Full-Stack Design: Profile - Server-Side

Feature: Visual display of information about a user

How to Design: Ask “What does the client need?”



# Example Full-Stack Design: Profile - Database

Feature: Visual display of information about a user

How to Design: Ask “What data do we need to store?”

User:

- name
- cat\_happiness
- about\_me
- ...

**TODO:**  
create a  
mongoose  
schema/model

# Example Full-Stack Design: Profile

Visual display of information about a user

**TODO:**  
create  
profile.js,  
profile.css

**TODO:**  
create /api/user  
API to provide  
data

**TODO:**  
create a  
mongoose  
schema/model

# How We Designed Catbook:

<u>Feature</u>	<u>Profiles</u>	<u>Stories (posts)</u>	<u>Comments</u>
Front-End	Profile page with name, description, cat happiness	Card with name, story, comments	Card footer with name, comment
Server-Side	/user API request for above info	/stories API request for above info	/comment API request for above info
Database	User MongoDB Schema/Model	Story MongoDB Schema/Model	Comment MongoDB Schema/Model

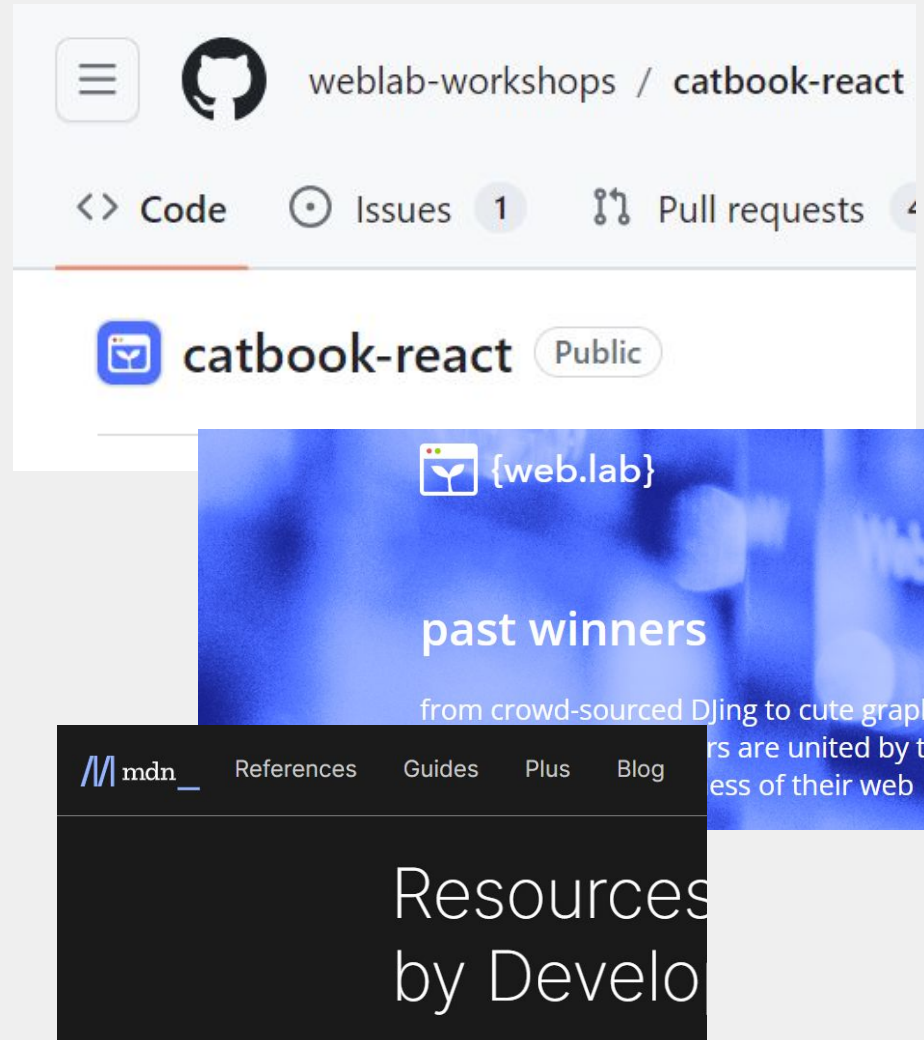
# Use references!

Catbook react has example code that you can use!

- Examples of everything we taught in class

Look at past winners' sites (and sites related to your idea) for design inspiration

MDN docs for help with coding syntax and usage



# Getting Started Checklist

- Download the skeleton ([weblab.is/skeleton](http://weblab.is/skeleton))
- Set up your Github
- Make a new page and add it to your router
  - Copy the skeleton page and work from there
- Add some react components
  - A title, placeholder text, buttons if you need, etc.
- You're ready to make your first feature!

Here lies the humble beginnings of a really cool nav bar.

## Placeholder Title

Mobi builds technologies that expand the human ability to navigate the problems for the individual and at scale that the human brain can't solve business process automation, as well as guiding travelers to the tasties being used by the world's largest brands. Founded in the research labs backed by an outstanding group of investors, Firefly Venture Partners, F technologies.

This is a button.

This is another button.

Wow.

# Developing Features Checklist

- Pick a feature
- What do you want to show to users?
  - Wireframe!
- Convert to React components (front-end) using dummy data
- Add server-side API connections
  - Make endpoints
  - Call endpoints
- Add database (if necessary)
  - Make mongo schemas to store data
- Test! Test! Test!
  - Make sure every step works!
- Repeat for the next feature :)

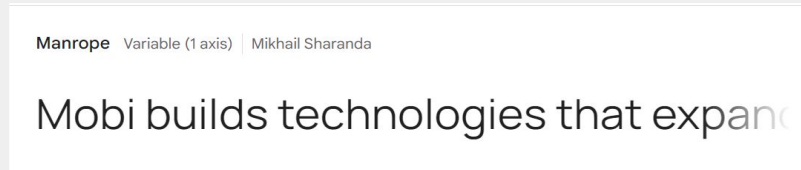
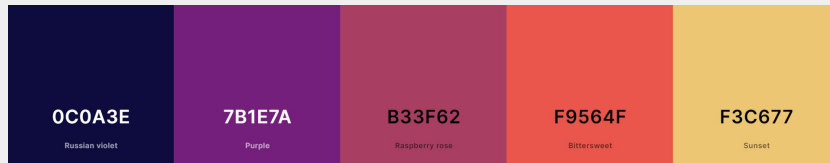


# Miscellaneous Setup Checklist

- Set up your Mongo SRV if you haven't done so already ([weblab.is/mongo-setup](https://weblab.is/mongo-setup))
- Set up Google Auth ([weblab.is/gauth-setup](https://weblab.is/gauth-setup))
- Set up dotenv and environment variables (How to deploy lecture)
- Set up Render ([weblab.is/render-setup](https://weblab.is/render-setup))

# Looking Cool Checklist

- Make a wireframe!
  - Figma can export CSS directly!
- Get a color scheme
  - Try something like [colors.co/app](https://colors.co/app)
- Get some fonts
  - Explore [fonts.google.com](https://fonts.google.com)
- Get a favicon! 😊
- Explore libraries
  - Tailwind, Material UI, and many others



# Want more resources?

Visit [weblab.mit.edu/resources](https://weblab.mit.edu/resources) for much more!

Also visit [weblab.is/home](https://weblab.is/home) for class links and resources



# Get help

Piazza

Games! Using H  
Average Response Ti... S

2 min

Where can  
I get help?

Office  
Hours!

[weblab.is/faq](http://weblab.is/faq)

Hackathon!  
(right now)



## Reminders

- **Milestone 2 is due THIS COMING WEDNESDAY, Jan 24 at 6PM ET sharp.**
  - all milestones required to compete or get credit.
  - do NOT leave this till the last minute
  - [weblab.is/milestone2](https://weblab.is/milestone2)
- **Hackathon in 32-082 *right now* until 1AM!**
  - we have food and drinks :0



Have Fun!

# Raffle



[weblab.is/q](https://weblab.is/q)