how to win web.lab

Claire Cheng and Daniel Sun

plan out your web app

How We Taught Catbook:

HTML + CSS (page content, structure, and design)

Client-Side JS (interactivity, API calls)

Server-Side Node/Express JS (creating routes, serving pages)

Databases using MongoDB and Mongoose (creating APIs, accessing and editing data)

Authentication (creating users and accounts, secure login)

How We Designed Catbook:

Full-Stack Design, Feature-by-Feature

Full-Stack Design, Feature-by-Feature

Full-Stack: Design with all the layers of the app in mind

Front-End, Server-Side, Database

Feature-by-Feature: Design each feature independently

Full-Stack Design: Profile

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

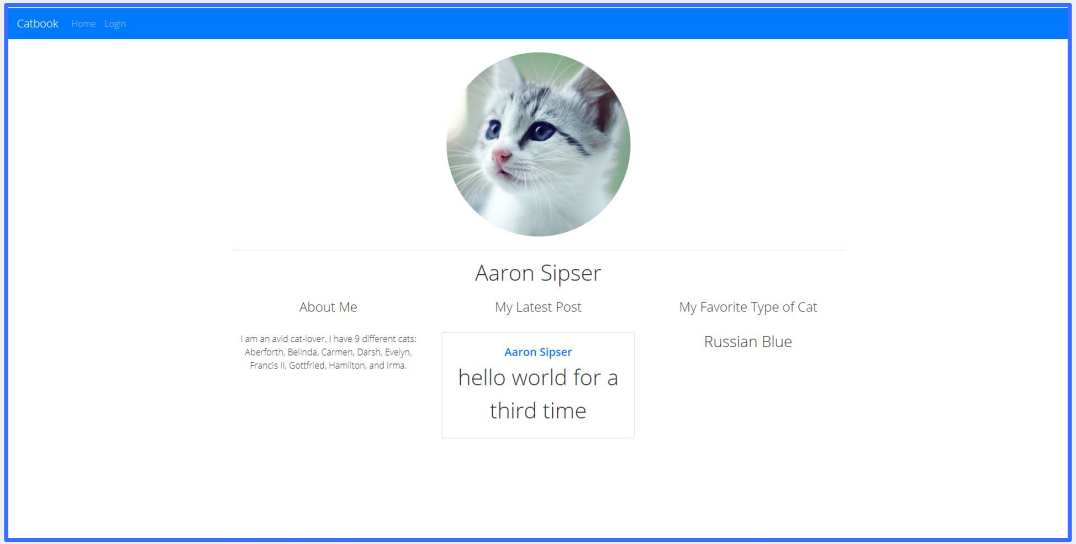
Full-Stack Design: Profile

Visual display of information about a user

Full-Stack Design: Profile - Wireframing

Feature: Visual display of information about a user

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

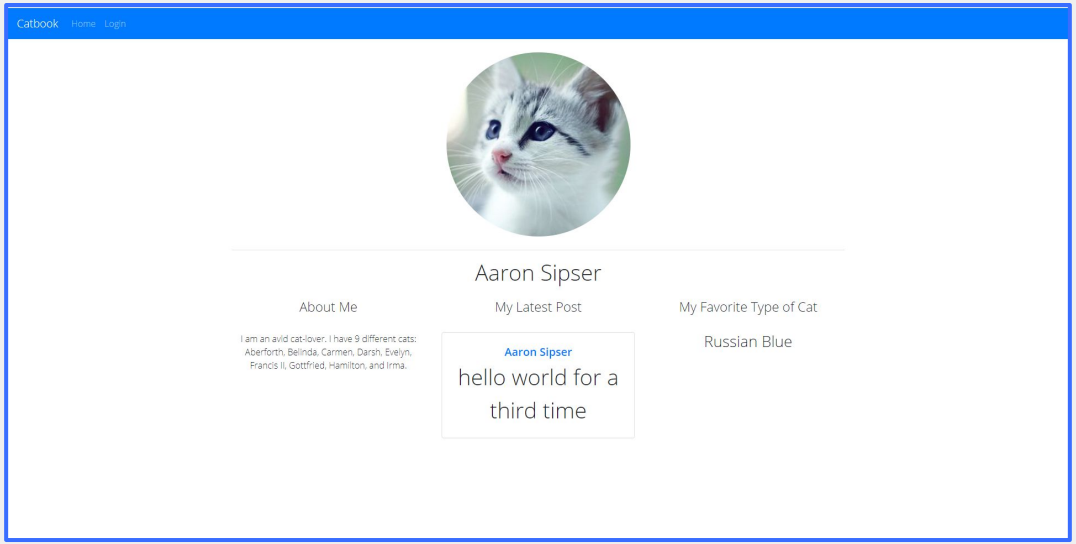


TODO:
Figma
Figure out what redirects where

Full-Stack Design: Profile - Front-End

Feature: Visual display of information about a user

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

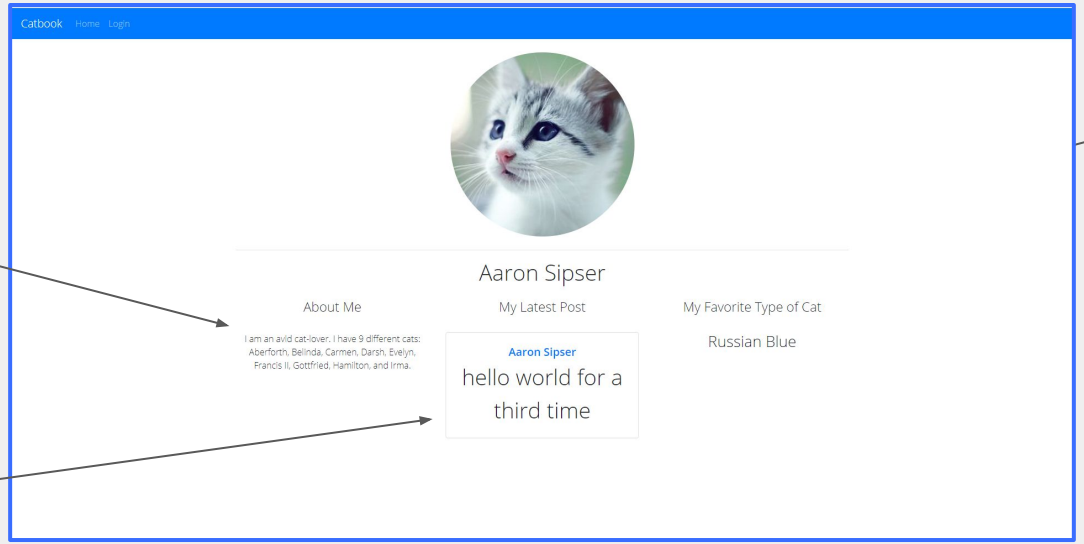


TODO: create profile.css, profile.js

Full-Stack Design: Profile - Server-Side

Feature: Visual display of information about a user

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



User’s Name

User’s About Me

User’s Cat Happiness

TODO: create /api/user API to provide data

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_happinness
- about_me
- ...
```

TODO: create a mongoose schema/model

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:

Feature	Profiles	Stories (posts)	Comments
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

Planning ahead will help you stay organized and improve productivity!

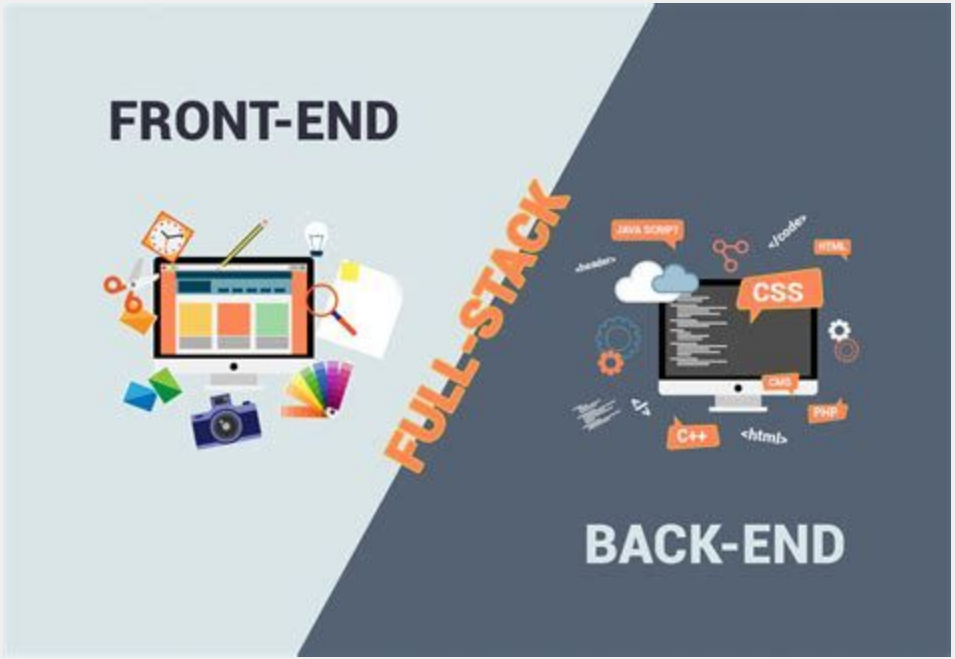
keep your plan updated

Your plan should serve as good **documentation** and a method of **communication** between your team.

As your team makes decisions, your plan should reflect this.

communicate with your team

divide up the work


FRONT-END
FULL-STACK
JAVA SCRIPT
HTML
CSS
CMS
PHP
C++
BACK-END

focus on that one killer feature

quality > quantity

Join social game lobbies from any browser, no install required

Raise your magikarp to jump higher than anyone else’s

use your team’s strengths.

Team of 3 artists make a beautiful hand-drawn game

test test test

what do you think you are supposed to do?
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try and make
a magikarp
jump
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LOVE THEM ENOUGH TO LEAVE THEM ALONE
FROM Yes and Yes .ORG
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try and make
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able to do it?
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try and make a magikarp jump
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build test polish
repeat

when you're stuck...

let’s try piazza
i’m sure
someone’s up

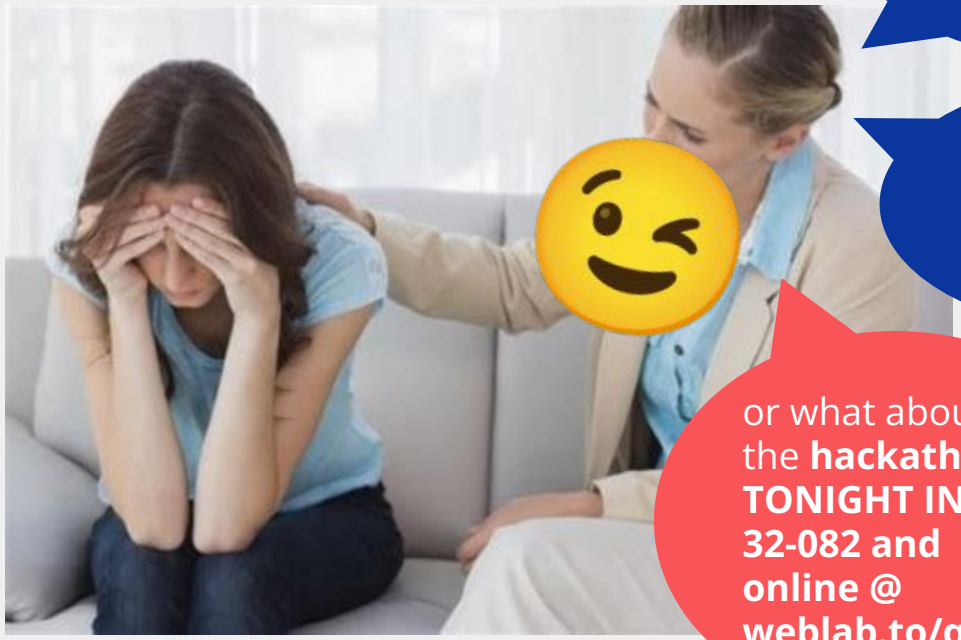
let’s try piazza i’m sure someone’s up

or what about office hours

let's try piazza i'm sure someone's up

or what about office hours

or what about the **hackathon TONIGHT IN 32-082 and online @ weblab.to/q**



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or what about the **hackathon TONIGHT IN 32-082 and online @ weblab.to/q**

Good luck!

Reminders

- Milestone 2 is due THIS COMING TUESDAY, Jan 18 at 6PM ET sharp.
  - all milestones required to compete or get credit.
  - do NOT leave this till the last minute
- Hackathon in building 32 basement tonight 7PM - 1AM ET!
  - last chance to get live help!
  - 32-082