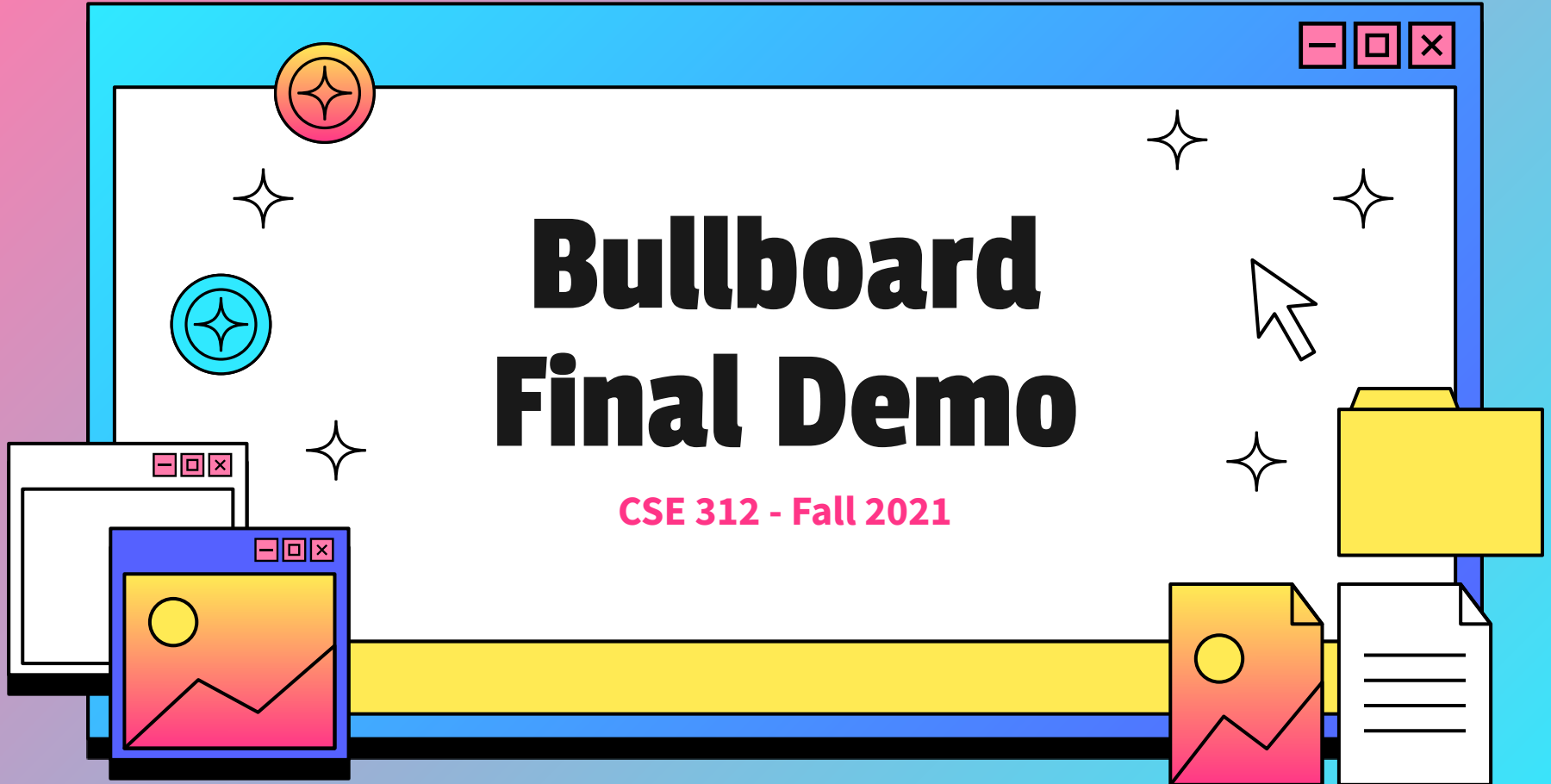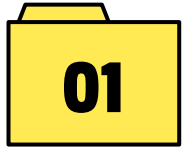# Bullboard Final Demo

CSE 312 - Fall 2021
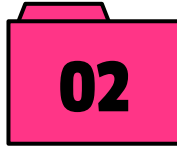
Presentation Contents

01

Introduction
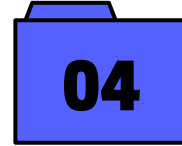
Get to know the developers!

02

BullBoard

Learn about the project and see a live demo!

03

Project Details

Our methods and approach plus a technical report!

04

Reflection

What we would do differently and what went well!

01
Introductions
Group Name: Bad Glitches Only
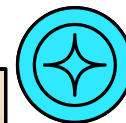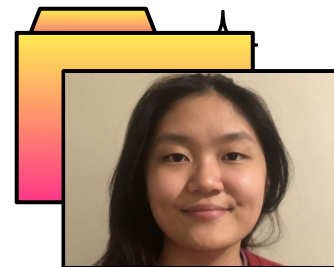
Meet the team
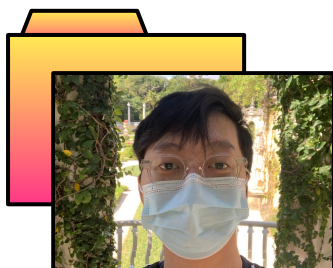
Ethan
Full-Stack Engineer
Senior

Lauren
Front-End Engineer
Senior

Cindy
Back-end Engineer
Junior

Jay
Full-Stack Engineer
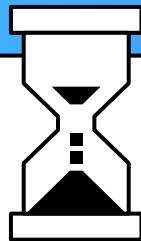Senior

Zayaan
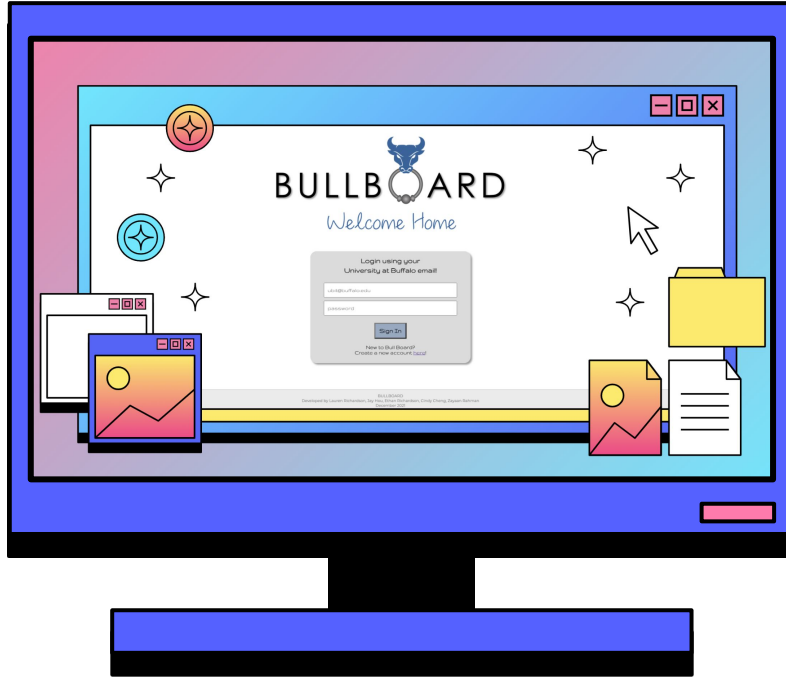Back-end Engineer
Junior

02

Bullboard

CSE 312 Web Application

UB Housing

Made Simple

Bullboard is a social media app made exclusively for University at Buffalo students. It provides a space to connect with roommates or find housing options!

The Breakdown

Login
Only Open to UB Students, Info Encryptions

Register
Uses Regex for requirements

Newsfeed
Where you can make wanted ads or posts to everyone

Profile
Edit your profile, add an image, personal info

Messages
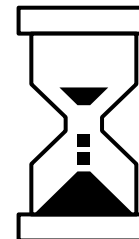Send a private message to one user
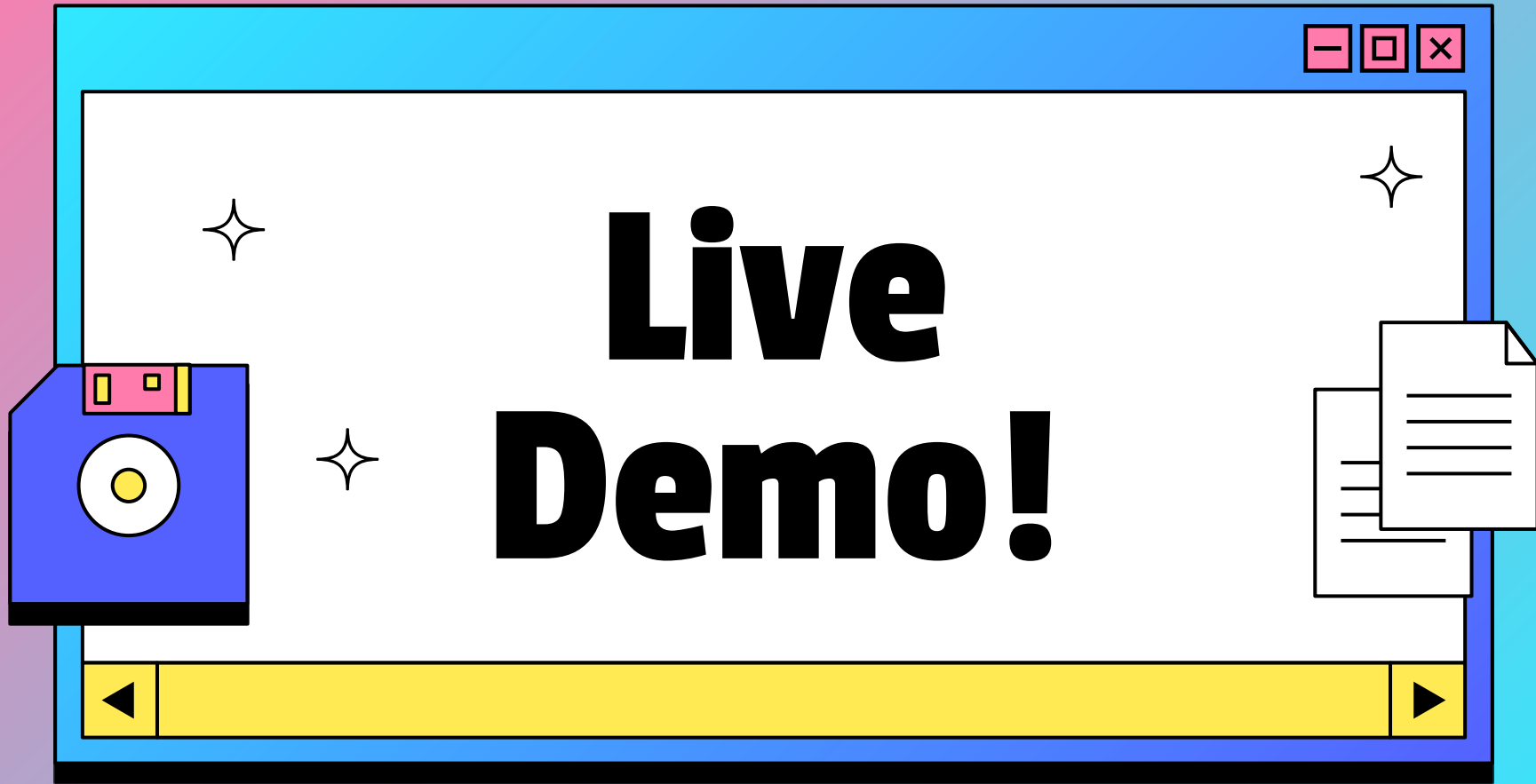*In Progress

Live Map
Collaborate with roommates to mark up campus maps

Active Users
Shows both online and offline users!

Live Demo!

03
Project Details
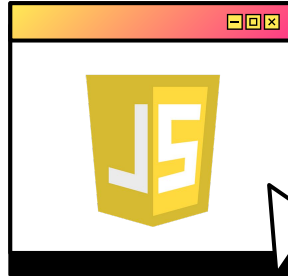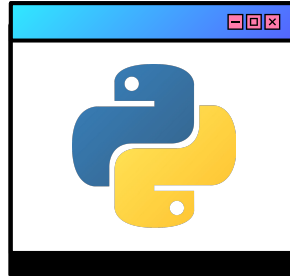
A Technical Overview

Tech Stack

Python

Back-end
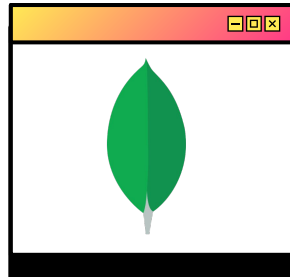
Aiohttp Library

JavaScript

Ajax requests

Generating elements

MongoDB

Collections: users, posts, active, messages

HTML & CSS

Front-end pages

Open-Source Report:

AIOHTTP

- Handles routing for endpoint requests

- Constructs responses

- Let's you specify what types of request methods you want for each endpoint
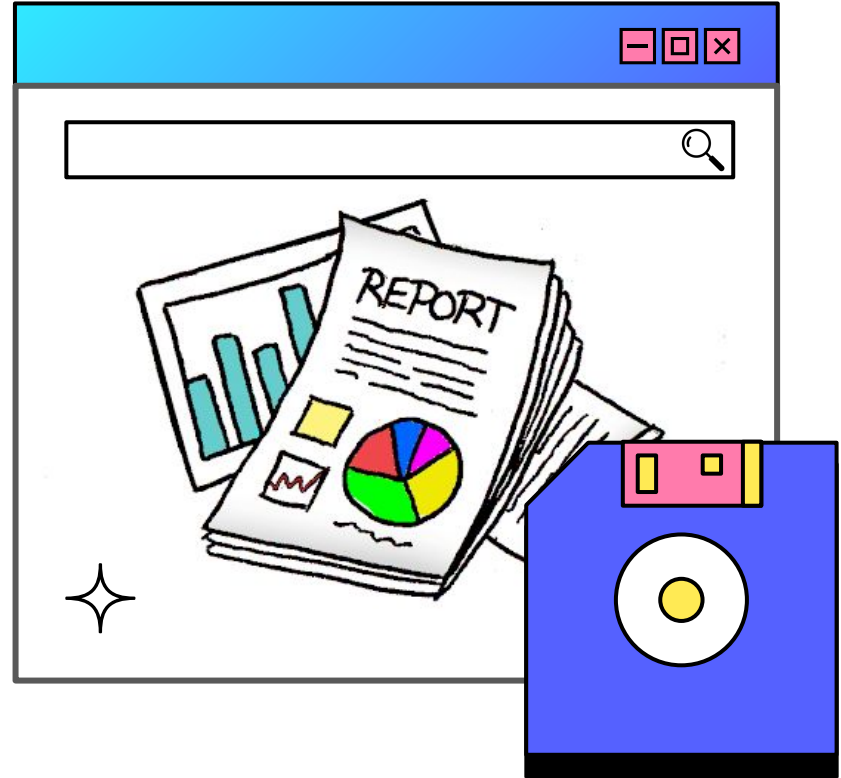
Open-Source Report:

PROS
- Interesting to learn about licenses
- Cool to see how things actually work
- Intuitive & Straight forward

CONS
- The report was quite tedious and time consuming
- Easy to lose track of where you are in the code
- Still need to finish this up by Friday

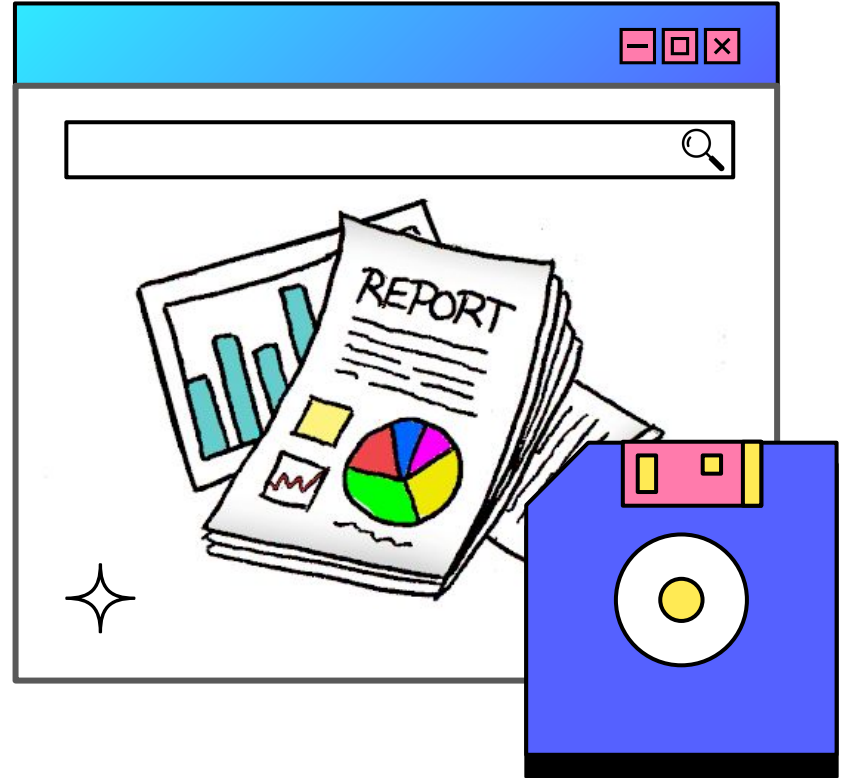# Endpoints

GET

/   /login   /register

/newsfeed   /profile   /edit

/map   /messages   /logout

/websocket   /images/prof_pics/{name}

/images/{name}   /messages/{ubit}

POST

/login_attempt   /create_account

/add_post   /edit_profile

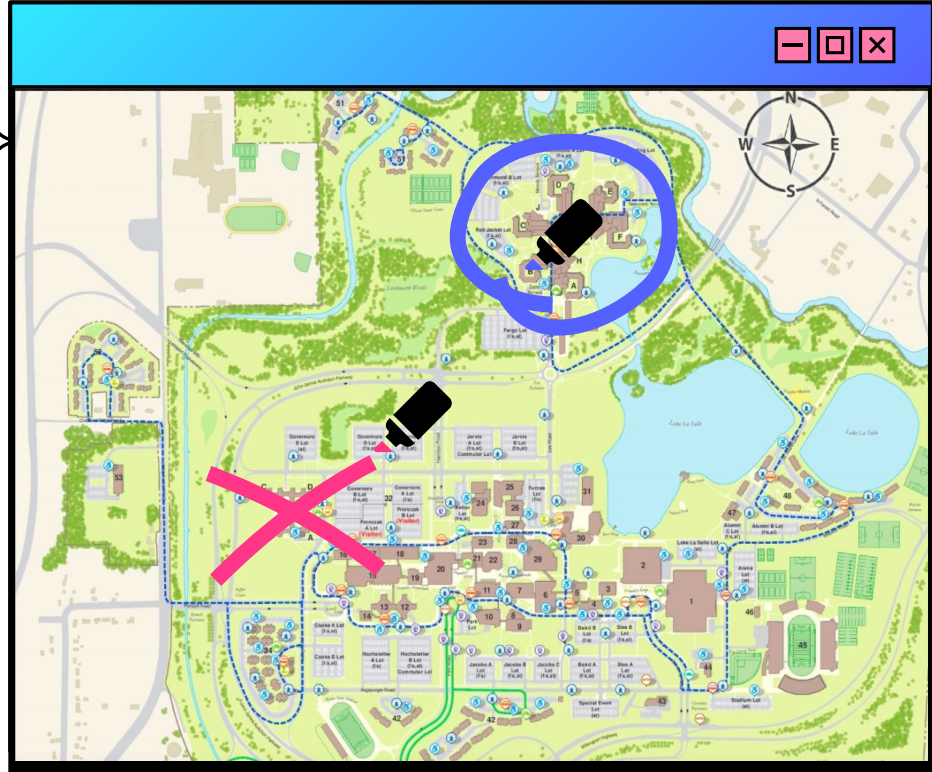/messages/{ubit}

Goals:
Update Live Map

◉ **User 1**
◉ **User 2**

- Add Colors
- Fix minor drawing bugs
- Add more maps
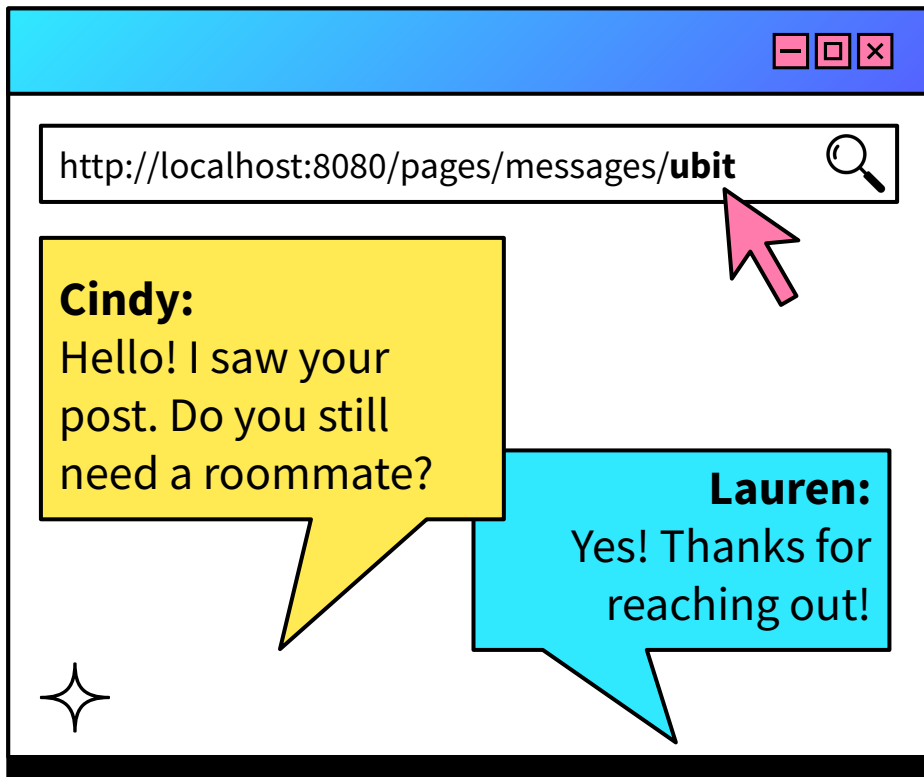 - South Campus
  - Downtown

Goals:
Direct Messages

⊕ **User 1**

⊕ **User 2**

- Use ubit stored in the database and create new direct messages between two users
- Link to this page can be found on the newsfeed posts
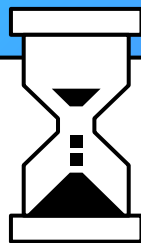- If someone makes a post, you will have the option to message them directly!

http://localhost:8080/pages/messages/**ubit**

Cindy:
Hello! I saw your post. Do you still need a roommate?

Lauren:
Yes! Thanks for reaching out!

04
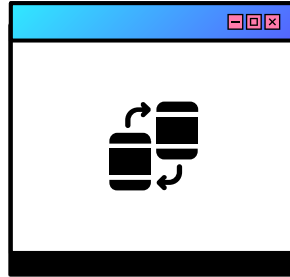# Reflection

CSE 312 Web Application
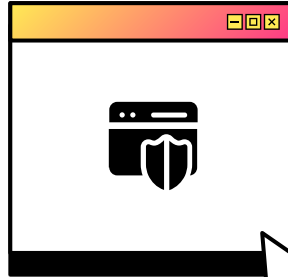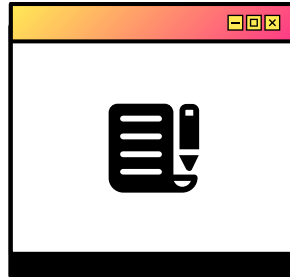
Project Setbacks

Websockets

Live interaction with users for the maps
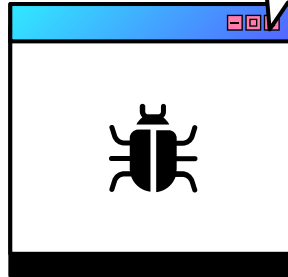
Report

Open-Source Report formatting

Security

Handling cross-site request forgery

Bugs

Server crashes, debugging and database pulling

Start Early

We definitely should have tried to start the project earlier in the semester. Finding mutual times to meet was hard!

Learn React

Creating a full front-end from scratch isn't easy and caused a lot of headaches. Learning a framework would have helped!
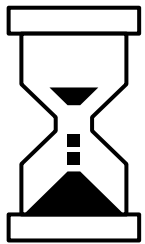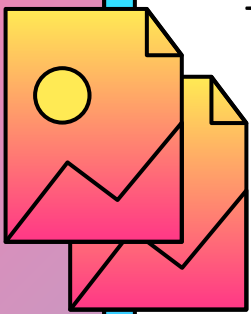
Start Small

Our project goals were ambitious from the beginning of the semester. We got sucked into extra features that were not 100% required.

Success!

We actually really enjoyed learning about web apps and many of us plan to take CSE 370 this spring to get more experience with Full-Stack development!

Thanks!

Do you have any questions?

slidesgo