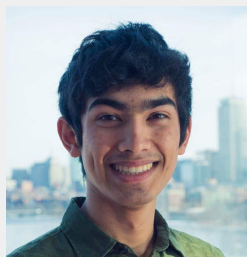


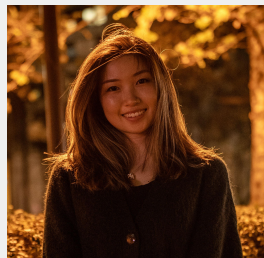
Welcome to web.lab!

What is web.lab?

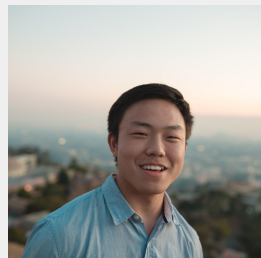
Course Staff!



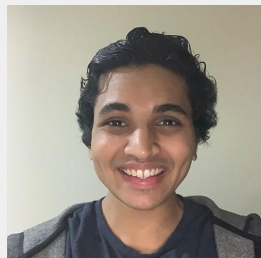
Nikhil Singhal
Class of 2021
Eternal Staff



Claire Cheng
Class of 2022
Co-president



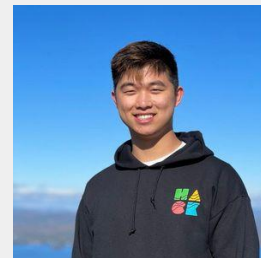
Daniel Sun
Class of 2022
Co-president



Akshaj Kadaveru
Class of 2022
Co-academic chair



Helen Lu
Class of 2023
Co-academic chair



Albert Xing
Class of 2024
Treasurer



Mufaro Makiwa
Class of 2023
Sponsor chair



Noah Raby
Class of 2023
Tech chair



Nicholas Tsao
Class of 2024
Publicity chair



Kevin Chen
Class of 2023
Operations chair



Thanh Nguyen
Class of 2023
Historian



Vincent Huang
Class of 2023
TA



Allen Ding
Class of 2024
TA

Reminders

- Register at portal.weblab.to
- Join the Piazza at weblab.to/piazza
 - Follow the installation guide immediately!
- [in-person] Please attest daily & PCR test at least twice a week!
 - If you test positive, please don't come to in-person class :(

Logistics

Logistics

- Lectures will be livestreamed and recorded to Youtube.
 - No, lectures are not mandatory. We don't take attendance. You get out as much as you put into web.lab
- No, the competition is not mandatory. But it doesn't hurt to submit your website into the competition!
- We'll have live help during workshops where you can add yourself to the queue on weblab.to/q.
- You can find the questions doc at weblab.to/questions, where you can ask questions anonymously during class.
- You can find the old questions doc at weblab.to/oldquestions
- bukabuka is at weblab.to/bukabuka

Course Overview

Schedule

Week 1

we build an app from scratch together!

Schedule

- Week 1 we build an app from scratch together!
- Week 2 advanced topics + sponsor lectures

Schedule

- Week 1 we build an app from scratch together!
- Week 2 advanced topics + sponsor lectures
- Week 3 code, code, code

Schedule

Week 1	we build an app from scratch together!
Week 2	advanced topics + sponsor lectures
Week 3	code, code, code
Week 4	CODE, CODE, CODE

Schedule

Week 1	we build an app from scratch together!
Week 2	advanced topics + sponsor lectures
Week 3	code, code, code
Week 4	CODE, CODE, CODE final submission, judging, awards!

Schedule

Week 1	we build an app from scratch together!
Week 2	advanced topics + sponsor lectures
Week 3	code, code, code
Week 4	CODE, CODE, CODE final submission, judging, awards!

weblab.mit.edu/schedule

We take you end-to-end



Look at the
street view

Make a guess
on the map

Sign in -

Urban Explorer helps
you get familiar with the city
you live in through a fun and
challenging game.

Enter a city

I want to play!

D3CODE THE WORLD

markit

T from 1/2/2016 to 1/2/2017



1w 2w 3w 1m 3m 6m 1y 2y ?

Guess

Find out where the pictures
were taken.

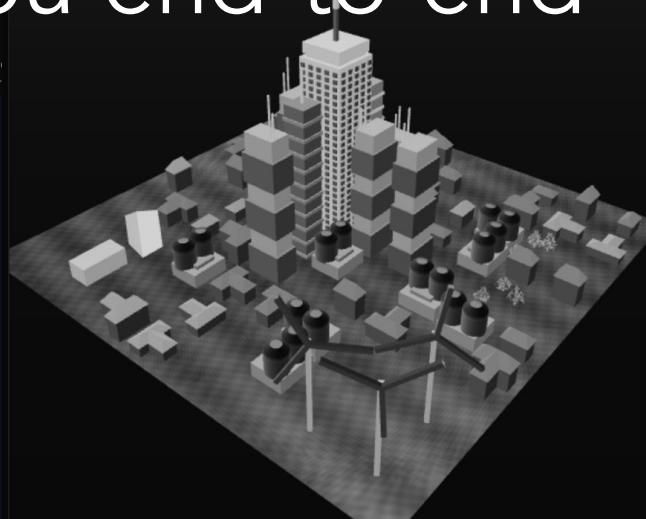
Discover

Discover places you didn't
know.

Collect

Collect your achievements
share with others.

We take you end-to-end



Sustainability Indicators

Greenhouse Gas Emissions (MM CO2): 17.5

Solid Waste Generation (MM tons): 0.7

Air Quality (PPM): 11.5

Parameters

Simulate

Energy Consumption (MMBTU)

225

City Area (sq. mi)

50.5

Park Area (% of City Area)

16.5

Number of Skyscrapers (Above 150 m)

25

Recycling Ratio (% of Solid Waste)

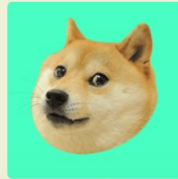
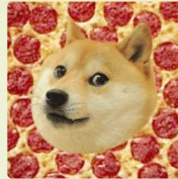
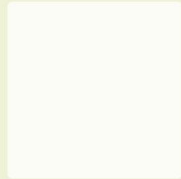
47.5

The world of websites is huge

DOGE2048

SCORE
13256

BEST
13256





100% FREE

FREE MEMBERSHIP!

- BUY CLOTHES!
- HOST PARTIES!
- ADOPT PETS!

 Free Membership →

1 2 3

Connect with friends and the
world around you on Facebook.



See photos and updates from friends in News Feed.



Share what's new in your life on your Timeline.



Find more of what you're looking for with Facebook Search.

Sign Up

It's free and always will be.

Birthday

[Why do I need to provide my birthday?](#)



Female



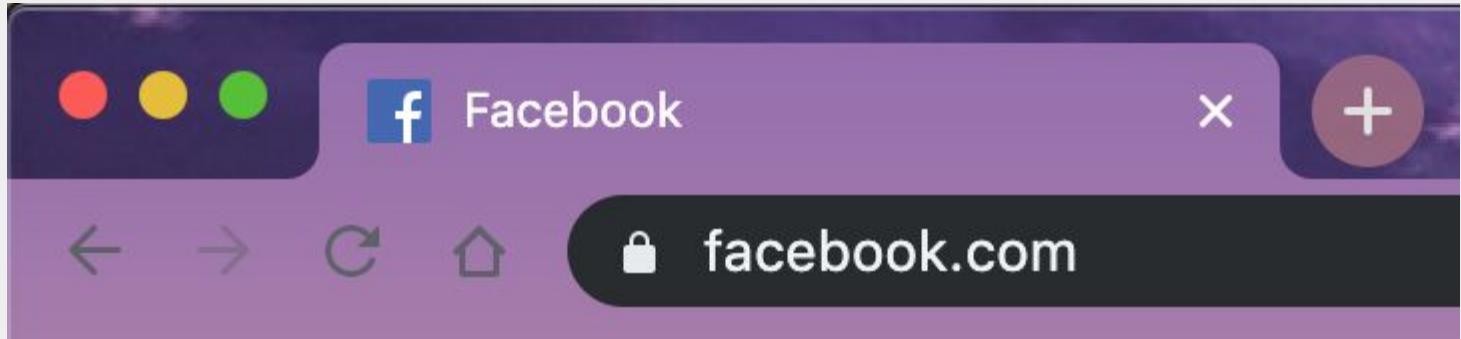
Male

By clicking Create Account, you agree to our [Terms](#) and that you have read our [Data Policy](#), including our [Cookie Use](#). You may receive SMS Notifications from Facebook and can opt out at any time.

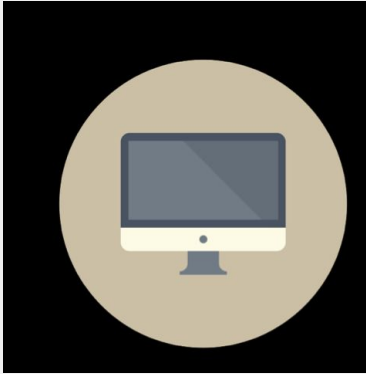
Create Account

How does this all work?

Accessing a Website

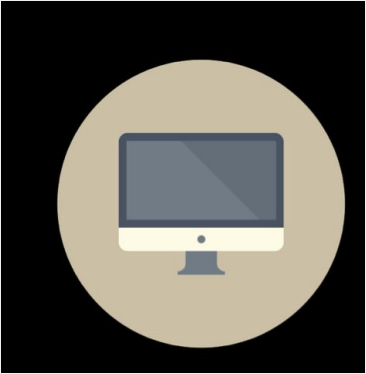


Accessing a Website

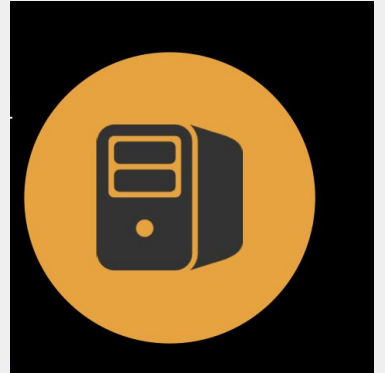


Client (you)

Accessing a Website

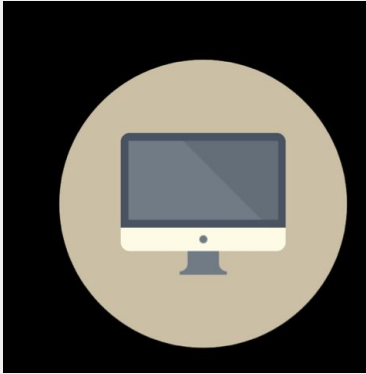


Client (you)



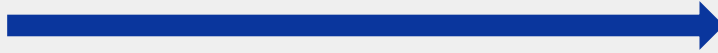
Server (facebook)

Accessing a Website



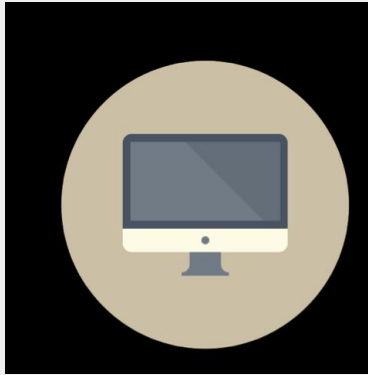
Client (you)

Request: GET facebook.com



Server (facebook)

Accessing a Website

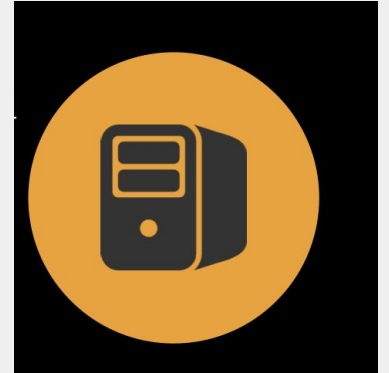


Client (you)

Request: GET facebook.com

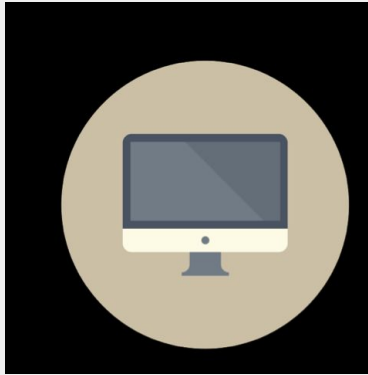


Response: Webpage files



Server (facebook)

Accessing a Website



Client (you)

Program used to
view a website

Request: GET facebook.com

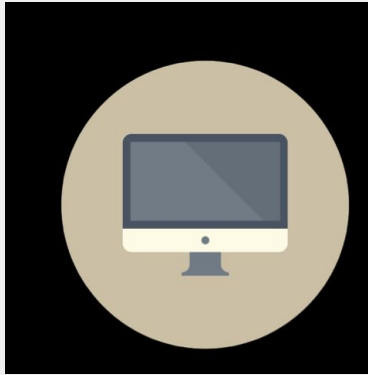


Response: Webpage files



Server (facebook)

Accessing a Website



Client (you)

Chrome
Program used to view a
website

Request: GET facebook.com



Response: Webpage files



Server (facebook)

Stores and serves a
website

Webpage files

Webpage files

HTML

```
<div class="text-box">  
<p>So text. Much HTML. Wow.</p>  
</div>
```

Webpage files

HTML

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<div class="text-box">  
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</div>
```

CSS

```
.text-box {  
font-family: "Comic Sans";  
color: pink;  
transform: rotate(20deg);  
}
```

Webpage files

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JS

```
var doge = "moar text";  
console.log(doge);
```

Webpage files

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JS

```
var doge = "moar text";  
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```

Assets



What app will we build?

What app will we build?

weblab.to/example

Milestones!

Ideation

MILESTONE 0 due Wed, Jan 5

Milestones!

Ideation

MILESTONE 0 due Wed, Jan 5

Project Pitches

MILESTONE 1 due Fri, Jan 7

Milestones!

Ideation

MILESTONE 0 due Wed, Jan 5

Project Pitches

MILESTONE 1 due Fri, Jan 7

Minimum Viable Product

MILESTONE 2 due Tues, Jan 18

Milestones!

Ideation

MILESTONE 0 due Wed, Jan 5

Project Pitches

MILESTONE 1 due Fri, Jan 7

Minimum Viable Product

MILESTONE 2 due Tues, Jan 18

Final Website!

MILESTONE 3 due Wed, Jan 26

You must build...

Dynamic website supported by a back-end

You must build...

Dynamic website supported by a back-end

Personalized experience based on user accounts

You must build...

Dynamic website supported by a back-end

Personalized experience based on user accounts

Minimum security requirements fulfilled

You must build...

Dynamic website supported by a back-end

Personalized experience based on user accounts

Minimum security requirements fulfilled

Original design and implementation

You must build...

Dynamic website supported by a back-end

Personalized experience based on user accounts

Minimum security requirements fulfilled

Original design and implementation

Use Git on a 6.148 web.lab Github repo

You CANNOT...

Use anything like Drupal, Wordpress or Squarespace

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Use anything like Drupal, Wordpress or Squarespace

Use any part of a previous project

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Outsource your development. Hire minions.

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Evil

weblab.mit.edu/about/ -- post a private Piazza post for any questions

Judging

Functionality	technical components of your core features
Usability	ease-of-use of the website
Aesthetics	look-and-feel of the website
Concept Execution	applicability of the solution to the problem

weblab.mit.edu/about/

Where do we get help from?

Learning Resources

PIAZZA!!! PLS POST ON PIAZZA

The Course Website weblab.mit.edu

Resources Compilation weblab.mit.edu/resources

Office Hours (both in-person and virtual)

“Hackathon” during Week 2 + 3

Hackathon

Extended Office Hours

Try to get as much sh*t done as possible

Hackathon

Extended Office Hours

Try to get as much sh*t done as possible

~~We have (????) boba and food and snacks and~~ generous help from staff <3

What else is there to web.lab?

UI Design

What else is there to web.lab?

UI Design

What else is there to web.lab?

learning version control

UI Design

a taste of course 6-3

What else is there to web.lab?

learning version control

UI Design

a taste of course 6-3

What else is there to web.lab?

a first experience in
creating something

learning version control

UI Design

a taste of course 6-3

And more!

What else is there to web.lab?

a first experience in
creating something

learning version control

Most importantly...

web.lab is not a classic MIT class

THEME!

Theme...

2015 Theme	Around the World
2016 Theme	Remember the Future
2017 Theme	Beyond the Horizon
2018 Theme	Back to the Roots
2019 Theme	Press Any Key to Start
2020 Theme	Craft your own ____
2021 Theme	Tag yourself
2022 Theme	...



imagine