Multiplayer trivia game HTML, CSS, JavaScript basics

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UMN ADC

October 5, 2021



Logistics...

Streaming

- https://umn.zoom.us/my/adc.workshop
- Recordings will be posted as unlisted YouTube videos as linked at https://adcumn.org/meetings

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In-person

- Tuesdays 5-6pm
- Tate Hall B20

Officer openings!

Workshop instructors

DM us on the discord!

https://z.umn.edu/ADCdiscord

A look ahead...

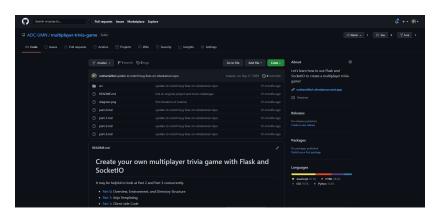
Event Schedule

Check here to see our event schedule. Join the discord for the latest event updates. Want a sneak peak? Check out our GitHub.

Event	Time	Place	Guide	Recording
Kickoff: Play a multiplayer trivia game that you'll learn how to make later!	Tue, Sep 21 7pm	Bruininks Hall 230		N/A
Multiplayer trivia game part 1: Setting up your environment	Tue, Sep 28 5-6pm	Tate Hall B20		
Multiplayer trivia game part 2: HTML, CSS, and Jinja templating	Tue, Oct 5 5-6pm	Tate Hall B20		
Multiplayer trivia game part 3: SocketIO	Tue, Oct 12 5-6pm	Tate Hall B20		
Multiplayer trivia game part 4: More SocketiO	Tue, Oct 19 5-6pm	Tate Hall B20		
Multiplayer trivia game part 5: Open source fest	Tue, Oct 26 5-6pm	Tate Hall B20	N/A	N/A
More workshops (iOS, Mac, React) coming soon!				

Follow the guide!

https://z.umn.edu/adc-mtg



Jinja Templating

layout.html

```
{% block head %}
       <title>{% block title %}{% endblock %}</title>
       <meta charset="utf-8">
       <meta http-equiv="X-US-Compatible" content="IE=edge">
       <meta name="viewport" content="width=device-width, initial-scale=1">
       <link rel="stylesheet" href="/static/style.css">
       k rel="shortcut icon" href="/static/favicon.ico" type="image/x-icon">
       k rel="icon" href="/static/favicon.ico" type="image/x-icon">
       {% endblock %}
           {% block content %}
           {% endblock %}
integrity="sha256-yr4fRk/GU1ehYJPAs8P4J1Tgu0Hdsp4ZKrx8bDEDC3I="
crossorigin="anonymous"></script>
integrity="sha384-J6ga4849b1E2+poT4WnvKhv5vZE5SrPo@iEiwBvKU7imGFAV@wri1vYfoRSJoZ+n"
       (% block scripts %)
       {% endblock %}
```

```
admin.html
{% extends "layout.html" %}
{% block title %} WhoDaMan - Admin {% endblock %}
{% block head %}
(% endblock %)
{% block content %}
          <h1>WhoDaMan</h1>
         <input id="room" type="text" placeholder="Game Name" />
         Create a game, and start buzzing in!
       <div class="panel header">
         ch1>WhoDaManc/h1>
         <input id="shareLink" disabled />
          <div class="panel label">Leaderboard</div>
            <button id="reset">Reset</button>
         <div class="panel header":</pre>
          <div class="panel label">Players &mdash: <span id="roomCount"></span></div>
            <button id="begin">Begin</button>
            <button id="done" style="display: none:">Done</button>
         <div class="panel header";</pre>
          <div class="panel label">Buzzes</div>
          (% endblock %)
(% block scripts %)
   <script src="{{ url for('static', filename='admin.is') }}"></script>
   window.onbeforeunload = function(){
{% endblock %}
```

Jinja Templating

app.py

```
13
14
     @app.route('/')
     def index():
15
          return render template('index.html')
17
     @app.route('/admin')
     def admin():
          return render template('admin.html')
21
     @app.route('/<room>')
23
     def play(room):
24
          return render template('play.html')
```

Open the terminal!

Change to /src

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Install dependencies: pip install -r requirements.txt

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Change to /src

- Create virtual environment: python3 -m venv env
- Activate virtual environment:

Linux/Mac: source env/bin/activate, Windows: env\Scripts\activate.bat

- Install dependencies: pip install -r requirements.txt
- Run app: python app.py

A question

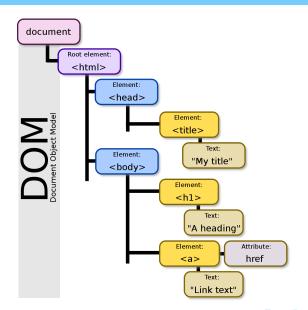
In admin.html, how do we make <form> visible at the start, then hide it and show <main>?

A question

In admin.html, how do we make <form> visible at the start, then hide it and show <main>?

CSS selectors and JQuery

DOM manipulations



DOM manipulations

Notice the Jinja templating!

admin.html

```
{% extends "layout.html" %}
{% block title %} WhoDaMan - Admin {% endblock %}
    {{ super() }}
{% endblock %}
{% block content %}
          <h1>WhoDaMan</h1>
         <input id="room" type="text" placeholder="Game Name" />
         Create a game, and start buzzing in!
       <div class="panel header">
         <h1>WhoDaMan</h1>
         <input id="shareLink" disabled />
```

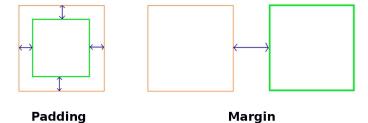
admin.js

```
var socket = io()
var $startForm = $('#start')
var $roomField = $('#room')
var $panel = $('#panel')
var $beginButton = $('#begin')
var $resetButton = $('#reset')
var $shareLink = $('#shareLink')
var $buzzes = $('#buzzes')
var $roomCount = $('#roomCount')
var data - { room: null }
$startForm.on('submit', function(event) {
 event.preventDefault()
 data.room = $roomField.val()
 socket.emit('create', data)
socket.on('create', function(success) {
   $startForm.hide()
   $panel.show()
    $shareLink.val(window.location.host+'/'+data.room)
```

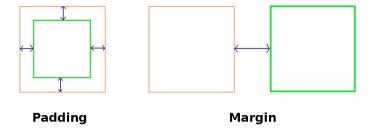
CSS

```
\verb| selector| \{ | \verb| attribute: | value; | \}
```

 $\verb|selector| \{ | \verb|attribute: | value; | \}$



selector { attribute: value; }



Let's look at static/style.css!

Try fiddling around with the HTML and CSS.

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Some ideas:

Create your own template that extends layout.html

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Some ideas:

- Create your own template that extends layout.html
- Create a section in admin.html where live chat might go
- Create a button that switches the page from light theme colors to dark theme colors