CSCI 3308 Software Dev Methodologies and Tools

Lab 4: Feb 5, 2025

Announcement

III REMEMBER III

There are no bad or stupid, questions or answers!!!

Always ask questions !!!!

Lets Recap

Time to Introspect

Make a group of 2 or 3.

Time to discuss (5 min)

Answer the following questions:

- 1. Name?
- 2. What did you learn in this course from the beginning?
- 3. What is something interesting that you found? Is there anything that sparks your interest that is related to this course but not covered?
- 4. What are some positives and negatives of my class?
- 5. What can I do to make it better?

What role does JS play in your webpages?

The Builder, the artist and the WIZARD!



Static Typing vs Dynamic Typing

In static typing, the type is bound to the variable.

On dynamic typing, the type is bound to the value.

Javascript(.js) is

Dynamically Typed

```
JS test.js > ...

1  var a = 10;

2  console.log(a); // 10

3

4  a = "Hello World";

5  console.log(a); // "Hello World"

6

7  a = 10.999

8  console.log(a); // 10.999

9

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

• varshanatarajan@Varshas-MacBook-Air HTML_demo % node test.js
10
Hello World
10.999
```

Important events / functions to remember:

```
    JS Events: < button onclick = "invokeMe()" />
    document.createElement():
```

var newDiv = document.createElement('div'); var newPara = document.createElement('p');

1. Element.append():

```
var div = document.createElement('div');
var paragraph = document.createElement('p');
div.append(paragraph);
p.append("Some text");
```

Node.appendChild():

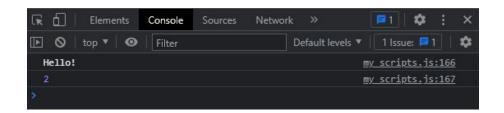
```
const paragraph = document.createElement("p");
document.body.appendChild(paragraph);
```

How to debug?

To print stuff, we use the console.log function (similar to a printf fn)

Once called, the output can be seen on the web page by going to the inspector (F12, or right-click→ inspect) and selecting "Console" at the top.

```
console.log("Hello!");
console.log(2);
```



Lab Overview

Part A - Pre-lab quiz

Part B

- Create Calendar
- Create Modal
- Update DOM
- Create/Update Events on Calendar

Part C

• Display tooltip for an event