

CS390

WEB

APPLICATION

DEVELOPMENT

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Hi!
I'm Nisarg.

Worked at Facebook
as SWE Intern (twice).

President of the
Web Dev Club.



<Web Dev
Club/>

**Are we learning
React?**

Yes!

**So, how's the
curriculum like?**

So, how's the curriculum like?

- All based on **practical** applications in the real world.
- Grading breakdown:
 - 40% labs
 - 40% projects
 - 20% attendance

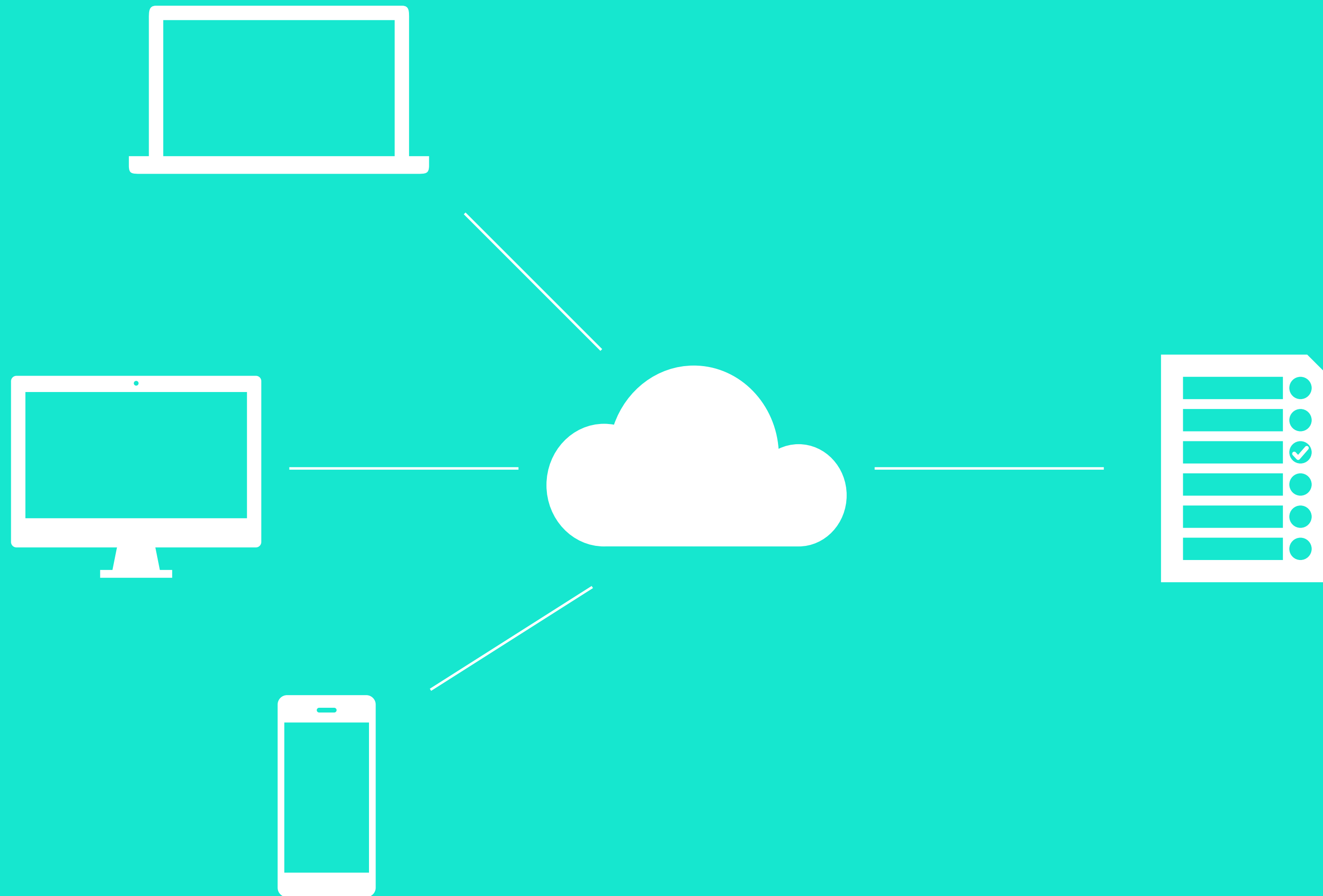
**How many
exams?**

10.

0!

Questions?

Let's talk about **web**.



What's **HTML**?

Hyper Text Markup Language

Characteristics of HTML

- Has **tags**
 - p (paragraph)
 - h1-h6 (headers)
 - div (divide page into pieces)
 - etc.
- Start with beginning tag:
 - `<div>`
- End with ending tag (usually)
 - `</div>` (notice the **/** before the name of the element)

Example HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>Our first webpage!</title>
  </head>
  <body>
    <h1>Hello World!</h2>
  </body>
</html>
```


Example HTML

Telling the browser that the page is in HTML5

```
<!DOCTYPE html>
```

Tag to signify the start of HTML

```
<html>
```

All the metadata goes here

```
<head>
```

```
  <title>Our first webpage!</title>
```

```
</head>
```

All the actual visible elements go here

```
<body>
```

```
  <h1>Hello World!</h2>
```

```
</body>
```

```
</html>
```

Lists (unordered)

```
<h2>Tasks</h2>
```

```
<ul>
```

```
  <li>Do laundry</li>
```

```
  <li>Clean up room</li>
```

```
  <li>Call mom</li>
```

```
  <li>Make slides for WAP</li>
```

```
</ul>
```

Tasks

- **Do laundry**
- **Clean up room**
- **Call mom**
- **Make slides for WAP**

Lists (ordered)

```
<h2>Tasks</h2>
```

```
<ol>
```

```
  <li>Do laundry</li>
```

```
  <li>Clean up room</li>
```

```
  <li>Call mom</li>
```

```
  <li>Make slides for WAP</li>
```

```
</ol>
```

Tasks

1. Do laundry

2. Clean up room

3. Call mom

4. Make slides for WAP

Divs

- Used as container for other elements
- Great for dividing page into blocks

```
<h2>Hello</h2>  
<div>  
  <h2>World</h2>  
</div>
```

Hello

World

Images

- Self closing tag
- Needs **src** attribute

Web Dev Club



```
<h2>Web Dev Club</h2>
```

```
<div>
```

```
  
```

```
</div>
```

CSS

Cascading Style Sheets

**CSS brings styling to
HTML elements.**

CSS Selectors

- Used for targeting elements
- ID (#)
 - To target a **specific** element
- Class (.)
 - To target a **group** of elements

Example CSS block

Selector ← `.container {`
Property ← `width: 50%;`
`background: blue;`
`}`

There's a lot more to learn!

- **Tons of HTML tags for adding buttons, tables, links etc.**
- **A lot more CSS properties.**
- **Resources:**
 - **W3Schools** (<https://www.w3schools.com/html/>)
 - **Learn to Code HTML & CSS** (<https://learn.shayhowe.com/html-css/getting-to-know-html/>)
 - **learn-html.org** (<https://www.learn-html.org/en/Welcome>)