SOFT

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WHAT'S CICSOFT?

CICSoft is an interest-oriented student organization fostering a collaborative environment for members to enhance their technical skills while developing applications from scratch.

Our aim is to empower students by delivering the means to build incredible apps and realize their ideas through code.

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HOW DO WE DO IT?

Weekly Workshops

to teach mobile dev, web dev & other software skills

CICSoft Lab

developing & publishing apps for UMass & local community

TechHour

explore intriguing tools & methods through hour long discussions

OUR TEAM

Aditya Vikram Singh

Co-President

Kirat Arora

Co-President

Anshul Vemulapalli

Core Member

Mahika Arora

Core Member

Makar Pronin

Core Member

Michael Xie

Core Member

Shiven Patel

Core Member

Spencer Friedman

Core Member

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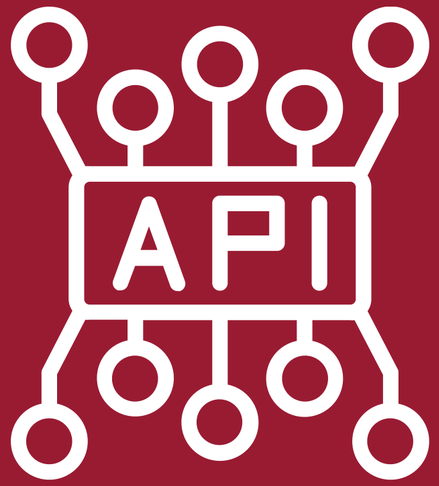
ABOUT LAST SEMESTER...



WEBSITES

What are they?

Link

Wikipedia
Wikipedia

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WEBSITES

are a journey too...

https://people.cs.umass.edu/~marius - Plain HTML

https://park.org/main.html - Ancient Website #1

http://www.taco.com - Ancient Website #2

https://stackoverflow.com - Modern Website

https://www.bruno-simon.com - Words are insufficient

SYLLABUS

Session #1	JavaScript Fundamentals
Session #2	Git, GitHub and Static Websites
Session #3	Static Websites and APIs
Session #4 - #7	Web: React, Servers, Databases
Session #8 - #9	iOS & Android: React Native

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SESSION #1

Introduction to JavaScript

- Most popular programming language (StackOverflow Developer Survey 2022)
- Runs on every device that can access a browser
- Used in ~98% of websites on the World Wide Web

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SESSION #2

Basic Static Websites

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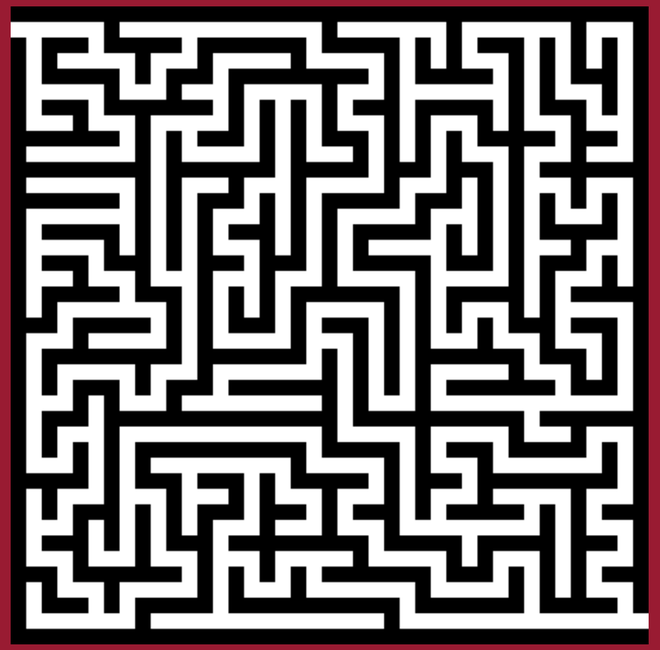
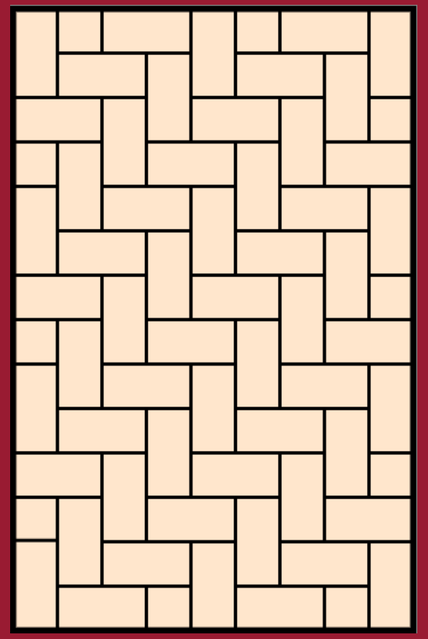
SESSION #3

Advanced Static Websites





SESSION #3

Advanced Static Websites

MOTIVATION

MERN

MongoDB	Data Storage
Express	Data Interaction
React.js	Data Display
Node.js	JavaScript Runtime

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LATER SESSIONS
React

- Most popular web user interface framework (StackOverflow Developer Survey 2022)
- Open-source, built on JavaScript by Meta
- Used in websites of Netflix, Instacart, Lyft, etc.

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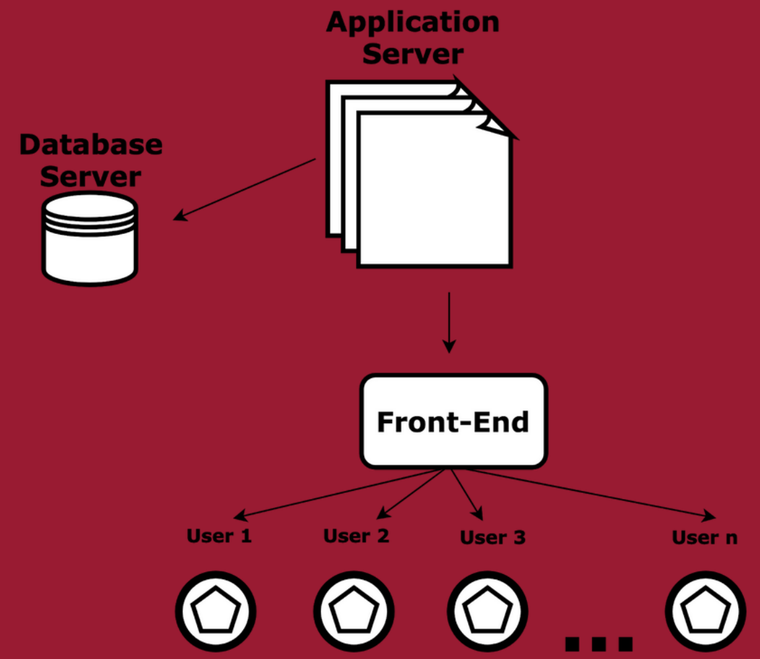
LATER SESSIONS

Server and Deployment



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LATER SESSIONS

Database and Persistence

tutorial-azure.sql ● {} employees.json × Untitled-1

```
1  [
2    {
3      "EmployeesId": "1",
4      "Name": "Jared",
5      "Location": "Australia"
6    },
7    {
8      "EmployeesId": "2",
9      "Name": "Nikita",
10     "Location": "India"
11   },
12   {
13     "EmployeesId": "3",
14     "Name": "Tom",
15     "Location": "Germany"
16   },
17   {
18     "EmployeesId": "4",
19     "Name": "Jake",
20     "Location": "United States"
21   }
22 ]
```

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LATER SESSIONS

React Native

- 4th most popular native user interface framework (StackOverflow Developer Survey 2022)
- Open-source, built by Meta again
- Developing for Android, iOS, macOS, Windows, etc.

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Questions?
Concerns?
Anything?