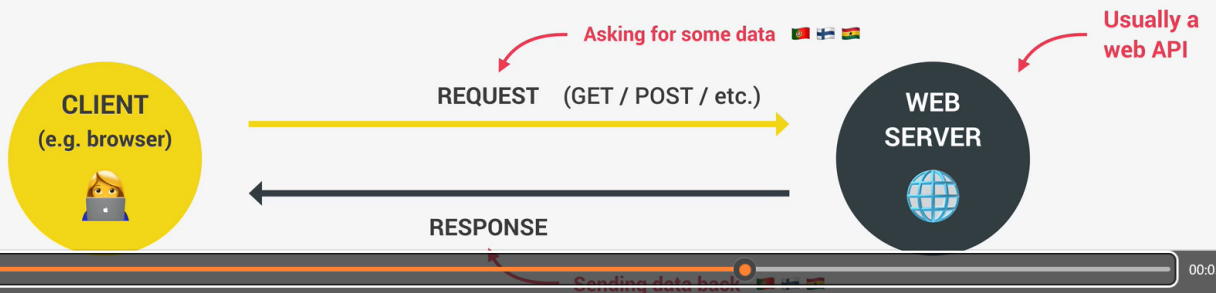


WHAT ARE AJAX CALLS?

AJAX

Asynchronous JavaScript And XML: Allows us to communicate with remote web servers in an **asynchronous way**. With AJAX calls, we can **request data** from web servers dynamically.



00:12:08

00:05:49

241 Asynchronous JavaScript, AJAX and APIs



YouTube

ASYNCHRONOUS CODE

CALLBACK WILL
RUN AFTER TIMER

Asynchronous

```
const p = document.querySelector('.p');  
setTimeout(function () {  
  p.textContent = 'My name is Jonas!';  
}, 5000);  
p.style.color = 'red';
```

Example: Timer with callback

```
[1, 2, 3].map(v => v * 2);
```

Callback does NOT automatically
make code asynchronous!

Executed after
all other code

THREAD OF
EXECUTION

"BACKGROUND"

(More on this in the
lecture on Event Loop)

Asynchronous code is executed **after** a task that runs in the "background" finishes;

Asynchronous code is **non-blocking**;

Execution doesn't wait for an asynchronous task to finish its work;

Callback functions alone do **NOT** make code asynchronous!

ASYNCHRONOUS

00:06:26

00:11:31

Coordinating behavior of a
241 Asynchronous JavaScript, AJAX and APIs



Public field (similar to property, available on created object)

Private fields (not accessible outside of class)

Static public field (available only on class)

```
class Student extends Person {
  university = 'University of Lisbon';
  #studyHours = 0;
  #course;
  static numSubjects = 10;

  constructor(fullName, birthYear, startYear, course) {
    super(fullName, birthYear);

    this.startYear = startYear;
    this.#course = course;
  }

  introduce() {
    console.log(`I study ${this.#course} at ${this.university}`);
  }

  study(h) {
    this.#makeCoffe();
    this.#studyHours += h;
  }

  #makeCoffe() {
    return 'Here is a coffe for you ☺';
  }

  get testScore() {
    return this._testScore;
  }

  set testScore(score) {
    this._testScore = score <= 20 ? score : 0;
  }

  static printCurriculum() {
    console.log(`There are ${this.numSubjects} subjects`);
  }
}
```

const student = new Student('Jonas', 2020, 2037, 'Medicine');

Parent class

Inheritance between classes, automatically sets prototype

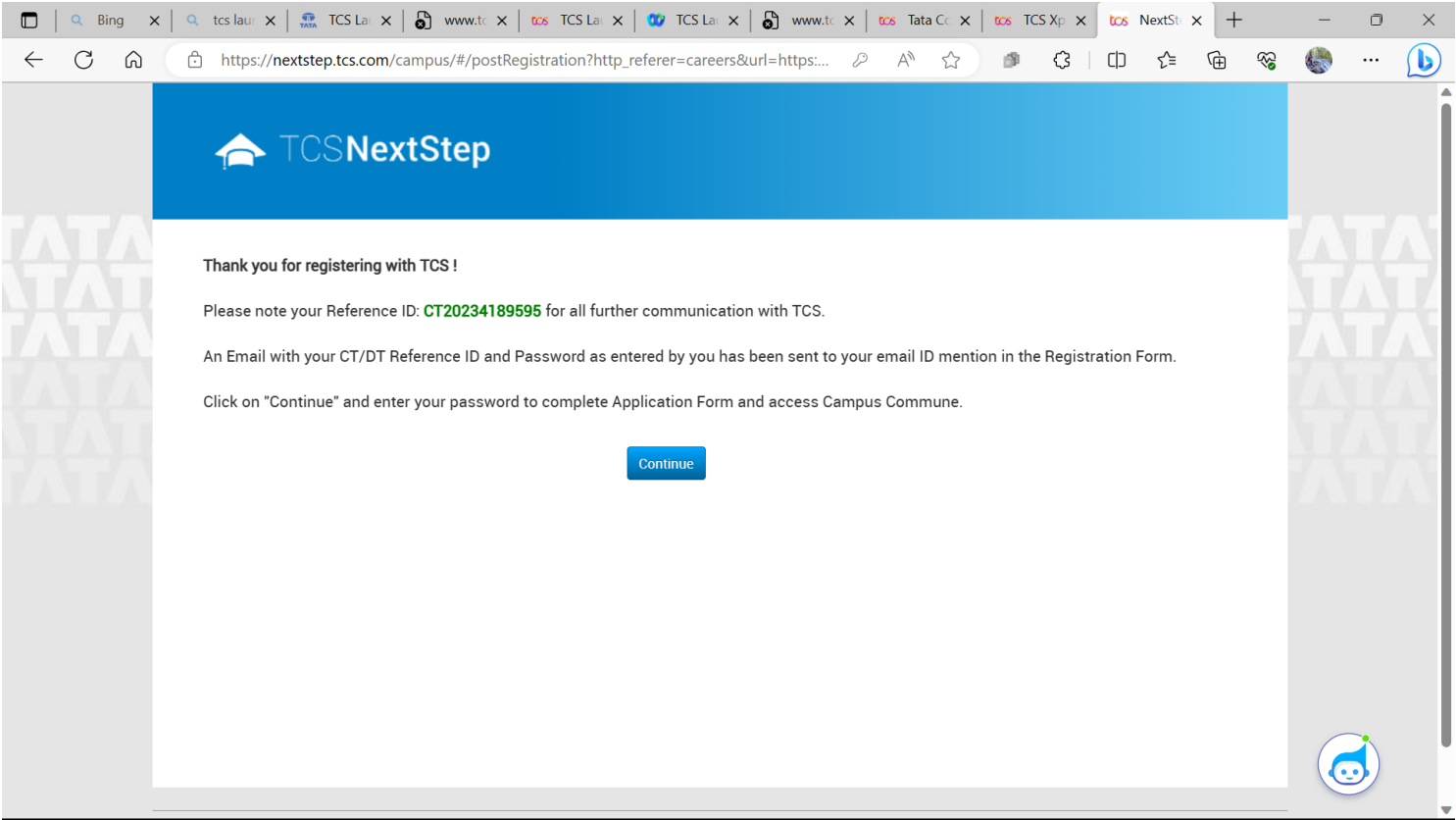
Child class

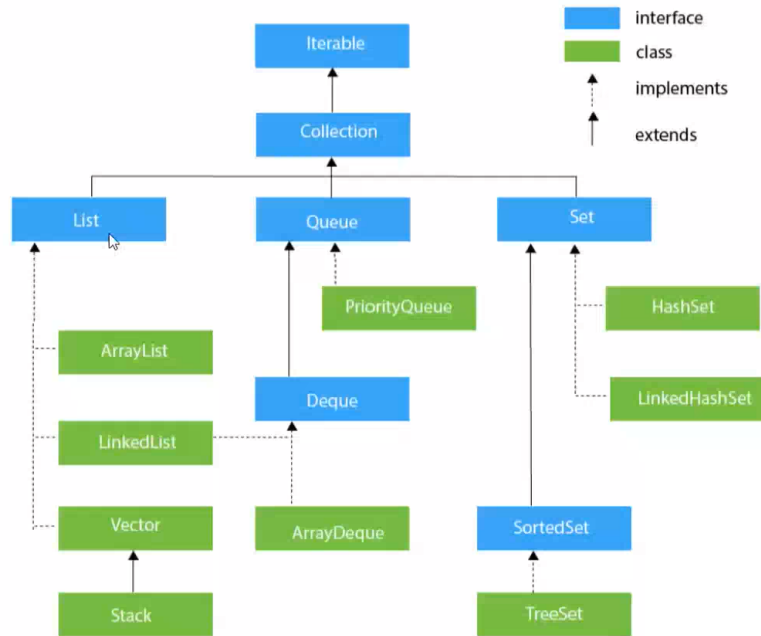
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Ok

Category of complaint:	Online and Social Media Related Crime
Sub-Category of complaint	Cheating by Impersonation







Finance

°C | °F Precipitation: 75%
Humidity: 95%
Wind: 26 km/h

Rain

Wind

26 km/h



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Th

23° 21°

My salary jumped from 10,000 to 5L per month after I learned these skills | How to grow y...



1. EFFECTIVE COMMUNICATION
2. CORPORATE STORYTELLING
3. STRUCTURED THINKING
4. NETWORKING
5. GLOBAL OUTLOOK
6. SYNTHESISING
7. NEGOTIATION
8. PERSONAL BRANDING
9. DEEP WORK
10. BUSINESS UNDERSTANDING
11. LIKABLE PERSON

Do go through the list.

▶ ⏮ 🔊 27:45 / 27:59

