Materiali mesimor per javen 3 - 7 mars 2025 Scantech

E hane - 3 mars 2025:
Sesioni i pare: Perseritje me funksione (definimi dhe thirrja e funkcionit, arrow functions)
Sesioni i dyte: Implement a function that filters even numbers from an array.

E merkure - 5 mars 2025:
Sesioni i pare: Callbacks and problem “callback hell” and solution with Promises (and a small introduction to async/await)

Shembulli i nje asynchronous callback te thjeshte:

Shembulli i njejte por me Promise:

Shembull i “callback hell”:

Zgjidhje Promises:

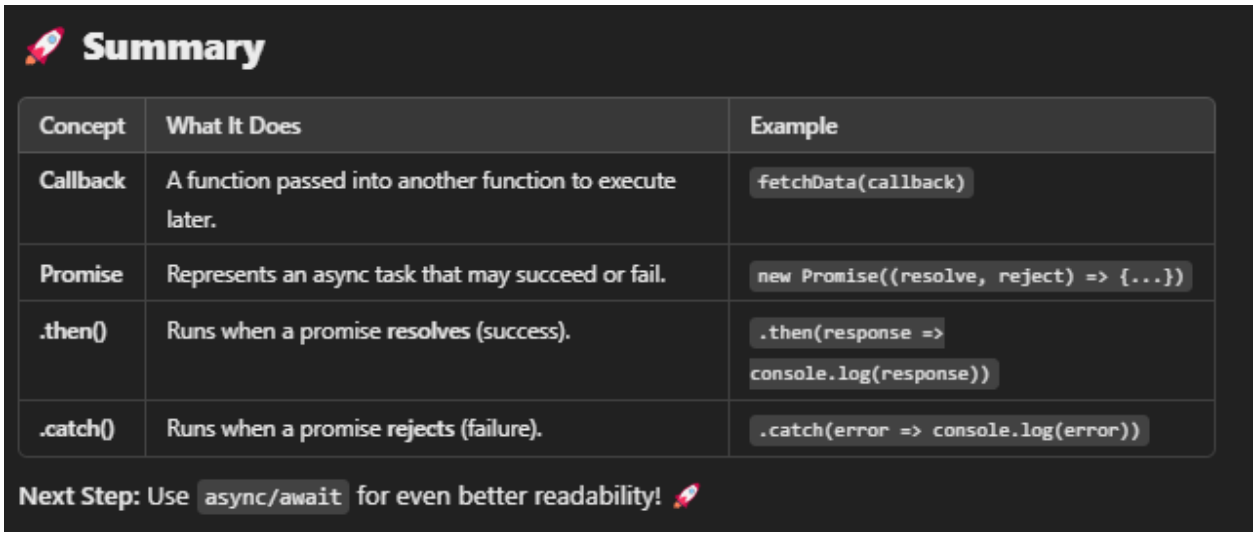
```
function step1() {
    return new Promise(resolve => {
        setTimeout(() => {
            console.log("Step 1 completed");
            resolve();
        }, 1000);
    });
}

function step2() {
    return new Promise(resolve => {
        setTimeout(() => {
            console.log("Step 2 completed");
            resolve();
        }, 1000);
    });
}

function step3() {
    return new Promise(resolve => {
        setTimeout(() => {
            console.log("Step 3 completed");
            resolve();
        }, 1000);
    });
}

// Chaining Promises
step1()
    .then(() => step2())
    .then(() => step3())
    .then(() => console.log("All steps complet "));
```

Permbledhje:



Summary

Concept	What It Does	Example
Callback	A function passed into another function to execute later.	`fetchData(callback)`
Promise	Represents an async task that may succeed or fail.	`new Promise((resolve, reject) => {...})`
.then()	Runs when a promise **resolves** (success).	`.then(response => console.log(response))`
.catch()	Runs when a promise **rejects** (failure).	`.catch(error => console.log(error))`

Next Step: Use `async/await` for even better readability!

Sesioni i dyte: Diskutime mbi shembuj ne boten reale per *Database calls* edhe *API Requests*

E premte - 7 mars 2025:
Sesioni i pare: Konvertimi i Promises ne Asynchronous Functions (komandat *async/await*) dhe error handling me metoden *try {} catch {}*
Sesioni i dyte: detyre per: Konsumimi i te dhenave me metoden *fetch()* duke perdorur error handling me metoden *try {} catch {}.*

Linku i Fake API: **https://jsonplaceholder.typicode.com/**

Linku: **https://cocktail-recipes.surge.sh/**

Shembulli: