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)

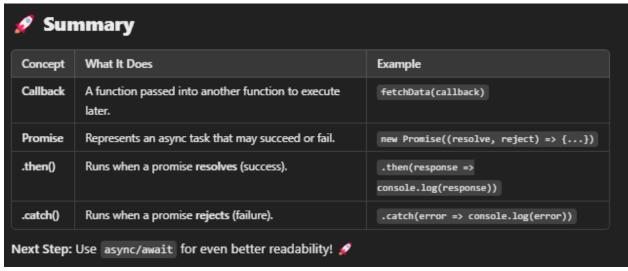
Shembull i callback:

```
function step1(callback) {
    setTimeout(() => {
        console.log("Step 1 completed");
       callback();
    }, 1000);
}
function step2(callback) {
    setTimeout(() => {
        console.log("Step 2 completed");
       callback();
    }, 1000);
}
function step3(callback) {
    setTimeout(() => {
        console.log("Step 3 completed");
        callback();
    }, 1000);
}
// Nested callbacks
step1(() => {
   step2(() => {
        step3(() => {
            console.log("All steps completed!");
        });
    });
                                               \downarrow
});
```

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 \psi "));
```

Permbledhje:



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 {}

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

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

Shembulli:

```
// put yasync function handleSearch(event) {
   if (event) event.preventDefault();

let searchValue = searchInput.value.trim();
   if (!searchValue) return;

try {
    let response = await fetch('https://www.thecocktaildb.com/api/json/v1/1/search.php?s=$(searchValue)');
    if (!response.ok) throw new Error("Failed to fetch data");

   let data = await response.json();
   console.log("Fetched Data:", data);

   if (data.drinks) {
      console.log("Cocktails Found:", data.drinks.map(drink => drink.strDrink));
    } else {
      console.log("No cocktails found.");
   }
} catch (error) {
   console.error("Error fetching data:", error);
}
}our code here
```