Phát triển ứng dụng web Javascript part 3

Nội dung Timer Asynchronous AJAX Bootstrap

Nội dung

- **□** Timer
- □ Asynchronous
- ☐ AJAX
- □ Bootstrap

Timer - setTimeout

```
function doIt() {
    console.log('Time now:', (new Date()).toLocaleTimeString());
}

doIt();
let t = setTimeout(doIt, 5000);
setTimeout(doIt, 2000);
clearTimeout(t);
```



Time now: 9:19:28 PM Time now: 9:19:30 PM

Timer - setInterval

```
let s = 0;
let t = setInterval(() => {
    console.log('Time now:', (new Date()).toLocaleTimeString());
    s++;
    if(s > 5) {
        clearInterval(t);
    }
}, 1000);

Time now: 9:43:30 PM
    Time now: 9:43:31 PM
    Time now: 9:43:32 PM
    Time now: 9:43:33 PM
    Time now: 9:43:35 PM
    Time now: 9:43:35 PM
    Time now: 9:43:35 PM
    Time now: 9:43:36 PM
```

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Asynchronous - Callback

```
function sleep(t) {
    const timeUp = (new Date()).getTime() + t;
    while((new Date()).getTime() < timeUp);
}
function doChore(chore, callback) {
    console.log(`Started ${chore}...`);
    sleep(2000);
    callback();
}
function finish() {
    console.log("Finished my chore!");
}
function run() {
    doChore('task-01', finish);
    console.log('task-02');
}

Started task-01...
Finished my chore!
task-02</pre>
```

Asynchronous - Promise

```
function doChorePromise(chore) {
    return new Promise((resolve, reject) => {
        console.log('Start ${chore}...');
        sleep(2000);
    if(chore.length > 0) {
            resolve('Finished my ${chore}!');
        }else {
            reject('no task');
        }
    });
}

function run() {
    doChorePromise('task-01'.then(resolve => {
        console.log(resolve.message);
    }).catch(reject => {
        console.log(reject.message);
    });
    console.log('task-02');
}
```

Asynchronous - Async

```
async function doChoreAsync(chore) {
  console.log(`Started ${chore}...`);
  sleep(2000);
  if (chore.length > 0) {
    return `Finished my ${chore}!`;
} else {
    throw new Error('no task');
}

function run() {
  doChoreAsync('task-01').then(resolve => {
    console.log(resolve);
}).catch(error => {
    console.log(error);
});
  console.log('task-02');
}
```

Asynchronous - Await

```
| Let rs = await dochoreAsync('task-01').then(resolve => {
| console.log(resolve);
|}).catch(error => {
| console.log(error);
|});
| console.log('task-02');
|}
| E Started task-01...
| E task-02
| E Finished my task-01!
| E task-02
```

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AJAX - JSON

AJAX - XMLHttpRequest

```
const xhr = new XMLHttpRequest();

xhr.onload = function() {
    if (this.status >= 200 && this.status < 300) {
        $("#content").html(this.responseText);
        let obj = JSON.parse(this.responseText);
        console.log(obj);
    }
};

xhr.onerror = function () {
    console.log(new Error({
        status: this.status,
        statusText: this.statusText
    }));
};

xhr.open("GET", "http://localhost:3000", true);
xhr.send();</pre>
```

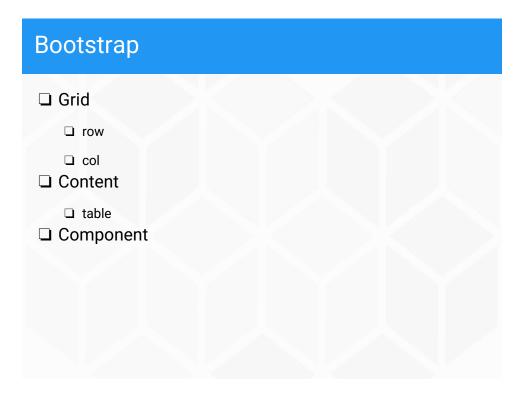
AJAX - fetch

```
fetch('http://localhost:3000').then(response => {
    response.text().then(str => {
        $('#content').html(str);
        const obj = JSON.parse(str);
        console.log(obj);
    });
});
```



```
const response = await fetch('http://localhost:3000');
const str = await response.text();
$('#content').html(str);
const obj = JSON.parse(str);
console.log(obj);
```

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- ☐ Timer
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- □ Bài tập

Bài tập

☐ Với dữ liệu lấy được từ address: 'https://reqres.in' xây dựng trang HTML sử dụng ajax trình bày dữ liệu như hình dưới

