JS

EXPRESS

POST - PUT

🥇 OBJECTIVES FOR TODAY 🥇

✓ Understand the **structure** of a POST/PUT/DELETE request

✓ Understand **when to use** the query verbs:
  ✓ **GET**
  ✓ **POST**
  ✓ **PUT**
  ✓ **DELETE**

Look at this request

```
GET https://192.14.25.16/videocall/incall/?peer_id=77
```

Q0 – What is the **verb** of this request (GET/POST/PUT/DELETE) ?

Q1 – What is the **path** of this request ?

Q2 – What is the **server IP** of this request ?

Q3 – What is the **port** of this request ?

Q4 – What are the **parameters** of this request ?

Quiz

Look at this request

```
GET https://192.14.25.16/videocall/incall/?peer_id=77
```

Q1 – What is the **path** of this request ?

192.14.25.16/videocall/incall

Q2 – What is the **server IP** of this request ?

192.14.25.16/

Q3 – What is the **port** of this request ?

443   Because it's the default port for   https

Q4 – What are the **parameters** of this request ?

Key perr_id, value = 77

Do you remember the 2 ways to set parameters in a GET?

1 - USING QUERY PARAMETERS

2 - USING ROUTE PARAMETERS

localhost: 3000/book?id=2

localhost: 3000/book/2

```
app.get("/book", (req, res) => {
    let id =  req.query.id

    res.send("id is:" + id);
});
```

```
app.get("/book/:id", (req, res) => {
    let id =  req.params.id

    res.send("id is:" + id);
});
```

Is there any issue when doing this:

localhost: 3000/login?id=ronan&password=iHateDurian

```
app.get("/book", (req, res) => {
    let id =  req.query.id
    let password =  req.query.pawwword

    let isValid = isValidUser(id, password)
    res.send(isValid);
});
```

Is there any issue when doing this:

localhost: 3000/login**?id=ronan&password=iHateDurian**

```
app.get("/book", (req, res) => {
    let id =  req.query.id
    let password =  req.query.pawwword

    let isValid = isValidUser(id, password)
    res.send(isValid);
});
```

PRIVATE DATA DISPLAYED ON URL !!

GET REQUEST PROBLEMS

URL has a **LIMITED size**

Parameters are **VISIBLE** on URL

```
https://192.14.25.16/videocall/incall/?peer_id=77
```

We **cannot send image**, music, binary data

LET'S SEND A POST REQUEST

URL

POST   https://192.14.25.16/login

NO MORE PARAMETERS

DATA

```
{
    id: 'ronan',
    password: 'iHateDurian'
}
```

BUT DATA IN THE BODY

PRIVATE

SEND + CATCH A POST

SEND POST ON CLIENT

```
Let postUrl = serverIP + 'login';

Let postValue = {
    id: 'Fred',
    password: 'bobo'
};


axios.post(postUrl, postValue)
   .then( r => console.log(r.data));
```

CATCH A POST ON SERVER

```
app.post('/login', (req, res) => {
 let body = req.body;
 let name=body.id;

 return res.send('hello' + name);
})
```

CONFIGURATION OF EXPRESS
TO READ JSON ON BODY

```
{
    firstName: "Jane",
    lastName: "Doe",
    major: "CENT"
},
```

```
app.use(express.urlencoded());
app.use(express.json());
```

Now EXPRESS
Is able to READ the BODY
as a JSON value

SEND + CATCH A POST

SEND POST ON CLIENT

```
Let postUrl = serverIP + 'login';

Let postValue = {
    id: 'Fred',
    password: 'bobo'
};


axios.post(postUrl, postValue)
   .then( r => console.log(r.data));
```

CATCH A POST ON SERVER

```
app.post('/login', (req, res) => {
  let body = req.body;
  let name=body.id;

  return res.send('hello' + name);
})
```

ACTIVITY 1 🕐 15 MIN
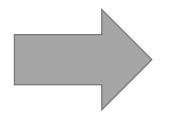
LOGIN -PROJECT

Transform the GET to a POST

POST

GET

DELETE

HOW
TO
CHOOSE ?

ARE YOU CHANGING YOUR SERVER DATA ?

YES NO

REQUEST	DATA CHANGED ON SERVER?
See the list of restaurants available	
Filter the food to see Khmer food only	
Buy something on food panda	
Create a new account	
Change profile photo	
See the list of restaurants available	
Set the traffic light to RED	

LIST
FILTER
GET
VIEW

SEE DATA
NO CHANGE ON SERVER
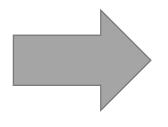
→ **GET**

ADD
UPDATE
SET
CHANGE
REMOVE

CHANGE DATA
CHANGE ON SERVER

→ **POST**
DELETE
PUT

Quiz **GET or POST ?**

Q0 – The **fastest** request

Q1 – Data are **EXPOSED** on the URL

Q2 – This request can be **bookmarked**

Q3 – The request can contain an **image**

ACTIVITY 2   🕐 15 MIN

Code a:
- **POST**
- **PUT**
- **DELETE**