# B-WEB-200

Introduction to web development





### TABLE OF CONTENT

The module: B-WEB-200

Node Node



The Project: Epytodo

Express express

Web app architecture

### **B-WEB-200**

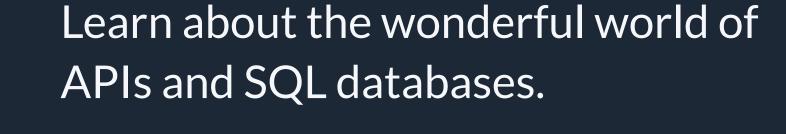
## Introduction to web development

The whole purpose of this module is to introduce you to web development.



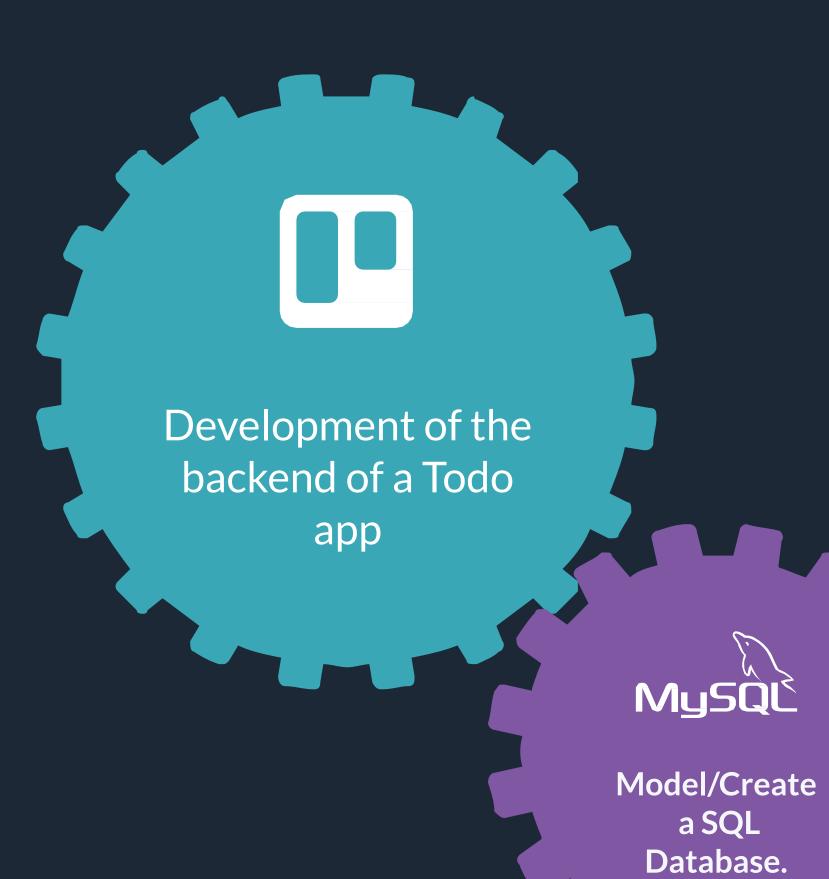
You will learn about recent and vastly used technologies.

Most of you will have an internship in this field.



# Epytodo

TODO APP



Development of a web server in Node.js using Express

you will end up
with a good
organizational tool
to help you daily



Bonus: build a web app and utilize the API

# Client-side Web app architecture **-**----HTML HTTP Requests MySQL SQL Query API

Client-side

Client-side means that the action takes place on the user's (the client's) computer. We will not be working on this side during this project.

#### Server-side

**Server-side** means that the action takes place on a web server. That's the part we will be working on during this project

### White arrows

Those represent the **communication** between the different parts.

The client requests data from the server (API) through HTTP Requests.

The **server query** the data from the database and sends it back to the client as a response



- JavaScript has been the most popular programming language for the last 6 years. JS



- JS is not only a client-side language.
- Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine.
- With node, we can use JS to build server-side apps.
- It uses npm as its package manager (just like pip or composer)



# EXPICSS

- A fast, unopinionated, minimalist web framework for Node.js
- Allows you to build Web applications and APIs
- It gets up and running with only a few lines of code.

```
const express = require('express')
const app = express()
const port = 3000

app.get('/', (req, res) =>
    res.send('Hello World!')
)
app.listen(port, () =>
    console.log(`Example app listening on port ${port}!`)
)
```



- SQL is a programming language used by nearly all relational databases to query, manipulate, and define data, and to provide access control.
- A database is an organized collection of structured information or data, typically stored electronically in a computer system
- Spreadsheets (such as Microsoft Excel) are also considered as databases in some cases.



- As a developer, you want to:
  - Insert data into a database
  - Access (or select) the data stored
  - Update data
  - Delete data
- In web development, we call those actions CRUD (create, read, update, delete)
- Example: CRUD user