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Installing Express

```
yarn init
yarn add express
```

Dependencies and dev dependencies

Basic express app

```
const express = require("express");
const app = express();

app.get("/", (req, res) => {
  res.send("Hello World!");
});

app.get("/about", (req, res) => {
  res.send("About");
});

app.listen(3000, () => console.log("Server running on port 3000"));
```

Sending html files

```
const express = require("express");
const path = require("path");
```

```
const app = express();

app.get("/", (req, res) => {
  res.sendFile(path.join(__dirname, "public", "index.html"));
});

app.get("/about", (req, res) => {
  res.sendFile(path.join(__dirname, "public", "about.html"));
});

app.get("*", (req, res) => {
  res.sendFile(path.join(__dirname, "public", "404.html"));
});

app.listen(3000, () => console.log("Server running on port 3000"));
```

Sending data

```
app.get("/student", (req, res) => {
  res.send({ name: "John", age: 23, city: "New York" });
});
```

```
app.get("/student", (req, res) => {
  res.json({ name: "John", age: 23, city: "New York" });
});
```

Express with Body parser

```
const express = require("express");
const path = require("path");
const bodyParser = require("body-parser");
const app = express();

app.use(bodyParser.json());

app.get("/", (req, res) => {
  res.sendFile(path.join(__dirname, "public", "index.html"));
});

app.get("/about", (req, res) => {
  res.sendFile(path.join(__dirname, "public", "about.html"));
});

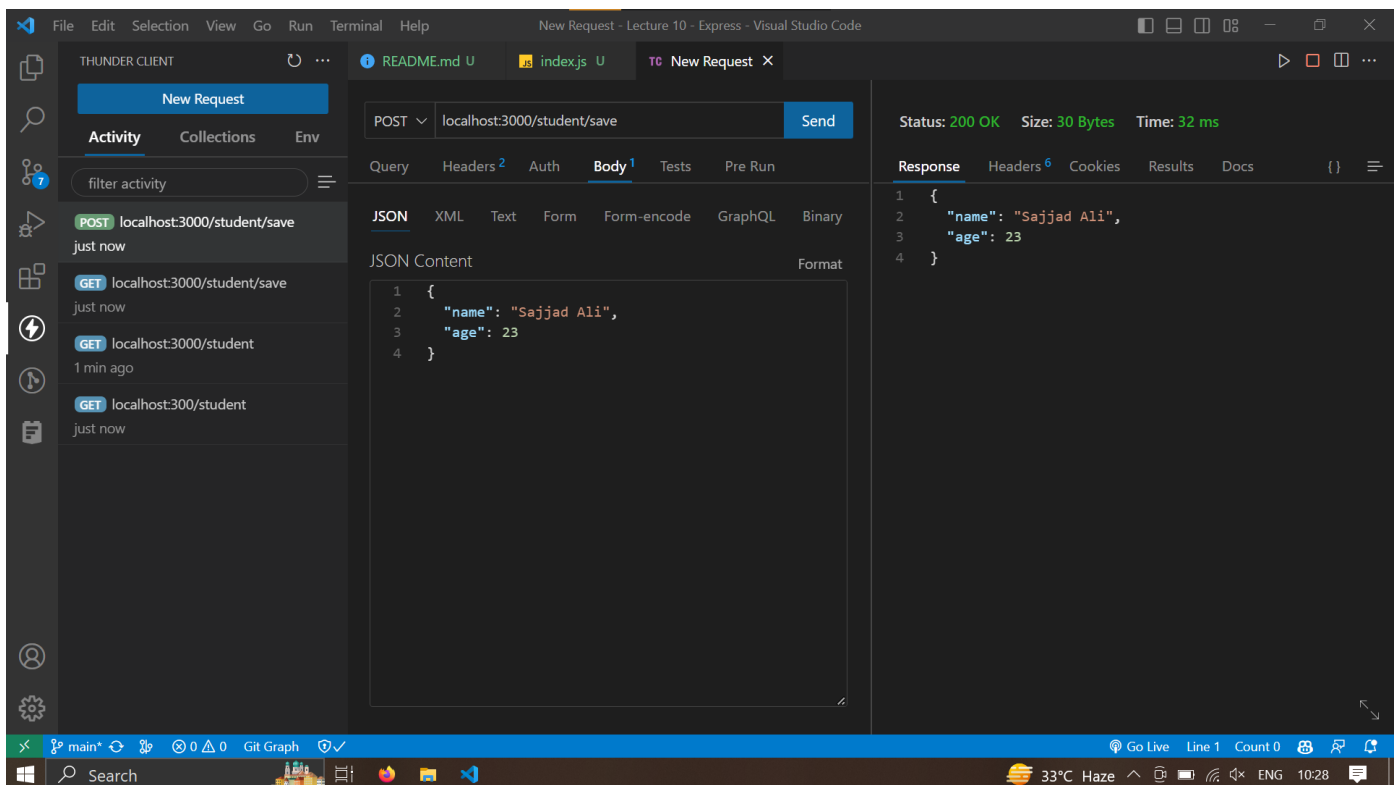
app.get("/student", (req, res) => {
```

```
res.json({ name: "John", age: 23, city: "New York" });
});

app.post("/student/save", (req, res) => {
  console.log(req.body);
  res.json(req.body);
});

app.get("*", (req, res) => {
  res.sendFile(path.join(__dirname, "public", "404.html"));
});

app.listen(3000, () => console.log("Server running on port 3000"));
```



Discussion on CI/CD Pipeline

Nodemon

Automatically restarts the server when changes are made to the code base and saved.

```
yarn add nodemon --dev
```

Add this script into package.json

```
"scripts": {  
  "start": "nodemon index.js"  
},
```

```
yarn start
```

Template Engine

EJS

```
yarn add ejs
```

Html file should have ejs exts All file should be in viwes folder

index.js

```
const express = require("express");  
const bodyParser = require("body-parser");  
  
const app = express();  
app.use(bodyParser.json());  
app.set("view engine", "ejs");  
  
app.get("/", (req, res) => {  
  res.render("index", { title: "Home" });  
});  
  
app.listen(3000, () => {  
  console.log("Server is running on port 3000.");  
});
```

index.ejs in view

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="UTF-8" />  
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />  
    <title>About</title>  
  </head>
```

```
<body>
  <h1>Hello World</h1>
  <h3><%=title%></h3>
</body>
</html>
```

Populating list using EJS

index.js

```
app.get("/products", (req, res) => {
  const products = [
    { id: 1, name: "Product 1", price: 1000 },
    { id: 2, name: "Product 2", price: 2000 },
    { id: 3, name: "Product 3", price: 3000 },
    { id: 4, name: "Product 4", price: 4000 },
    { id: 5, name: "Product 5", price: 5000 },
  ];
  res.render("products", { title: "Products", products: products });
});
```

products.ejs

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>
    <%=title%>
  </h1>
  <ul>
    <% for(let i=0; i<products.length; i++) { %>
      <li>
        <%= products[i].name %> - $<%= products[i].price %>
      </li>
    <% } %>
  </ul>
</body>
</html>
```

Including component

navbar.ejs

```
<ul>
  <li><a href="/">Home</a></li>
  <li><a href="/products">Products</a></li>
</ul>
```

index.ejs

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>About</title>
  </head>

  <body>
    <%-include("navbar")%>
    <h1>Hello World</h1>
    <h3><%=title%></h3>
  </body>
</html>
```

products.ejs

```
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
  </head>

  <body>
    <%-include("navbar")%>
    <h1>
      <%=title%>
    </h1>
    <ul>
      <% for(let i=0; i<products.length; i++) { %>
        <li>
          <%= products[i].name %> - $<%= products[i].price %>
        </li>
      </li>
    </ul>
  </body>
</html>
```

```
<% } %>
```

```
</ul>
```

```
</body>
```

```
</html>
```