

Sunday, 8 October 2023

## Express Js

Express.js is a popular web application framework for Node.js that simplifies the process of building robust and scalable web applications. It provides a minimal and flexible set of features for building web and mobile applications, making it a popular choice for developers. Here are some key notes and concepts related to Express.js:

Express is often used to build RESTful APIs by defining routes and handling HTTP methods like GET, POST, PUT, and DELETE.

### 1. Installation:

To get started with Express.js, you need to install it using npm (Node Package Manager):

```
bash
```

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```
npm install express
```

### 2. Basic Usage:

You can create an Express application by importing the module and creating an instance of it:

```
javascript
```

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

### 3. Routing:

Express allows you to define routes that specify how your application responds to client requests. You can create routes for HTTP methods like GET, POST, PUT, DELETE, etc.

```
javascript
```


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```
app.get('/', (req, res) => {  
  res.send('Hello, Express!');  
});
```

#### 4. Middleware:

Middleware functions are functions that can be used to process requests before they reach the route handlers. You can use middleware for tasks like authentication, logging, and error handling.

javascript


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```
app.use(express.json()); // Parse JSON in request bodies
app.use(express.urlencoded({ extended: true })); // Parse URL-encoded form
```

#### 5. Request and Response Objects:

Express provides request (`req`) and response (`res`) objects that contain information about the incoming request and allow you to send a response back to the client.

javascript

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```
app.get('/user/:id', (req, res) => {
  const userId = req.params.id;
  res.send(`User ID: ${userId}`);
});
```


## What is CORS ?

Whenever we create the web server we don't want that everyone will be calling our APIS.

We want that only a specific domains can call our apis so for that we have to use cors policy.

By default no one can make the direct call to our apis, so we have to tell the node that hey node everyone or a specific domain can call our api with cors policy

javascript

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```
const cors = require('cors');
app.use(cors());
```