Express.js

Setting up basic project in Express.js

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Introduction

Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications. It is an open source framework developed and maintained by the Node.js foundation.

Advantages of Express.js

Makes Node.js web application development fast and easy.

Easy to configure and customize.

Allows you to define routes of your application based on HTTP methods and URLs.

Includes various middleware modules which you can use to perform additional tasks on request and response.

Easy to serve static files and resources of your application.

Allows you to create REST API server.

Easy to connect with databases such as MongoDB, Redis, MySQL

Installing Express.js

npm install -g express

Listening on Port

```
JS data.js
                JS index.js
 JS index.js > 😭 app.delete('/api/student/:id') callback
       const express = require('express')
       const student=require('./data')
       const app = express()
       app.use(express.json()) // this will make the body as object and set it to its property
       app.listen(3000, () => {
            console.log('Listening On Port 3000');
       app.get('/', (req, res) =>{
           res.json({ message: "API is Working" })
       })
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```

HTTP GET Request

```
// get
app.get('/api/student', (req, res) => {
   res.json(student)
})
```

HTTP POST Request

```
post
app.post('/api/student', (req, res) => {
   const user ={
       id : student.length+1,
       first name : req.body.first name,
       last name : req.body.last name,
       email : req.body.email
   student.push(user)
   res.json(user)
})
```

HTTP PUT Request

```
update data
app. put ('/api/student/:id', (req, res) => {
   let id =req.params.id
  let first name =req.body.first name
  let last name =req.body.last_name
  let email =req.body.email
  let index = student.findIndex((student) => {
     return (student.id == Number.parseInt (id))
   if (index >= 0){
      let std = student[index]
     std.last_name=last_name
     std.first_name =first_name
     std.email = email
     res.json(std)
     else {
     res.status(404)
     res.end()
```

HTTP DELETE Request

```
// delete data
app.delete('/api/student/:id', (req, res) => {
   let id =req.params.id;
    let index=student.findIndex((student) =>{
        return (student.id == Number.parseInt (id))
    })
    if (index >=0) {
        let std =student[index]
        student. splice(index, 1)
       res.json(std)
     } else {
        res. status(404)
```