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Microservices Practical 3

**Aim :** You are building a Node.js application for a scheduling platform. As part of the functionality, you need to display the current date and time whenever a user interacts with the platform.

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**Practical 3 :** To achieve this, create a custom dateTimeModule in Node.js that provides the current date and time in a formatted manner. Once you have created the module, demonstrate how you would use it in your main application file (app.js) to display the current date and time whenever a user performs a certain action.

**Code : (dateTimeModule.js)**

```
let d = new Date();

function YSLdatetime()
{
let date = d.getDate();
let month = d.getMonth();
let year = d.getFullYear();
let hour = d.getHours();
let min = d.getMinutes();
let sec = d.getSeconds();

return {
tarikh: `${date}-${month}-${year}`,
samay: `${hour}:${min}:${sec}`
};
};
```

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```
}
```

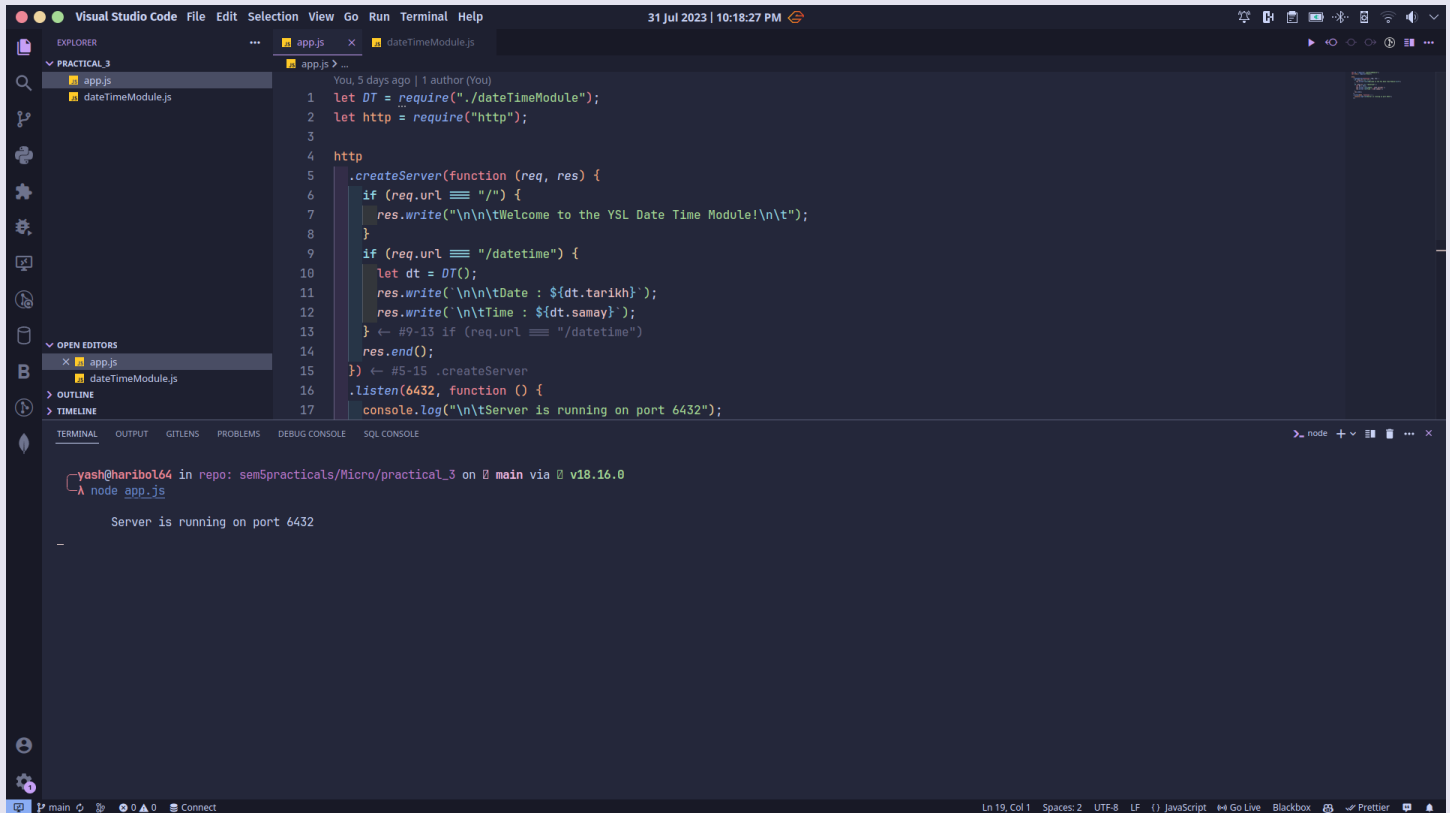
```
module.exports = YSLdatetime;
```

**Code : (app.js) (in the same directory)**

```
let DT = require("./dateTimeModule");  
let http = require("http");  
  
http  
  .createServer(function (req, res) {  
    if (req.url === "/") {  
      res.write("\n\n\tWelcome to the YSL Date Time Module!\n\t");  
    }  
    if (req.url === "/datetime") {  
      let dt = DT();  
      res.write(`\n\n\tDate : ${dt.tarikh}`);  
      res.write(`\n\tTime : ${dt.samay}`);  
    }  
    res.end();  
  })  
  .listen(6432, function () {  
    console.log("\n\tServer is running on port 6432");  
  });
```

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Output :



The screenshot shows the Visual Studio Code editor with a file named `app.js` open. The code is a Node.js script that uses the `http` module to create a server. It defines a `DateTimeModule` and a `datetime` endpoint. The server listens on port 6432 and logs the message "Server is running on port 6432".

```
1 let DT = require("./dateTimeModule");
2 let http = require("http");
3
4 http
5   .createServer(function (req, res) {
6     if (req.url === "/" ) {
7       res.write("\n\n\tWelcome to the YSL Date Time Module!\n\t");
8     }
9     if (req.url === "/datetime") {
10      let dt = DT();
11      res.write(`\n\n\tDate : ${dt.tarikh}`);
12      res.write(`\n\tTime : ${dt.samay}`);
13    } ← #9-13 if (req.url === "/datetime")
14    res.end();
15  }) ← #5-15 .createServer
16  .listen(6432, function () {
17    console.log("\n\tServer is running on port 6432");
```

The terminal output shows the command `node app.js` being executed, and the message "Server is running on port 6432" being printed.

```
yash@haribol64 in repo: senSpracticals/Micro/practical_3 on main via v18.16.0
A node app.js

Server is running on port 6432
```

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