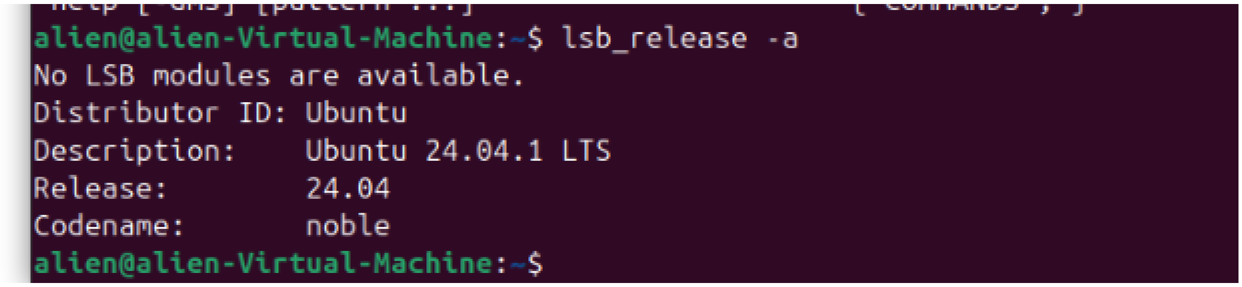
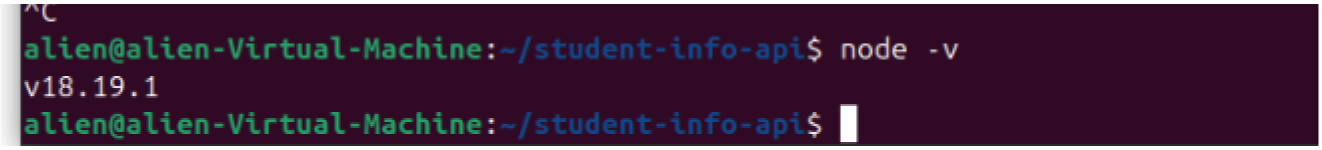
Step 1: Node.js installed in Ubuntu:

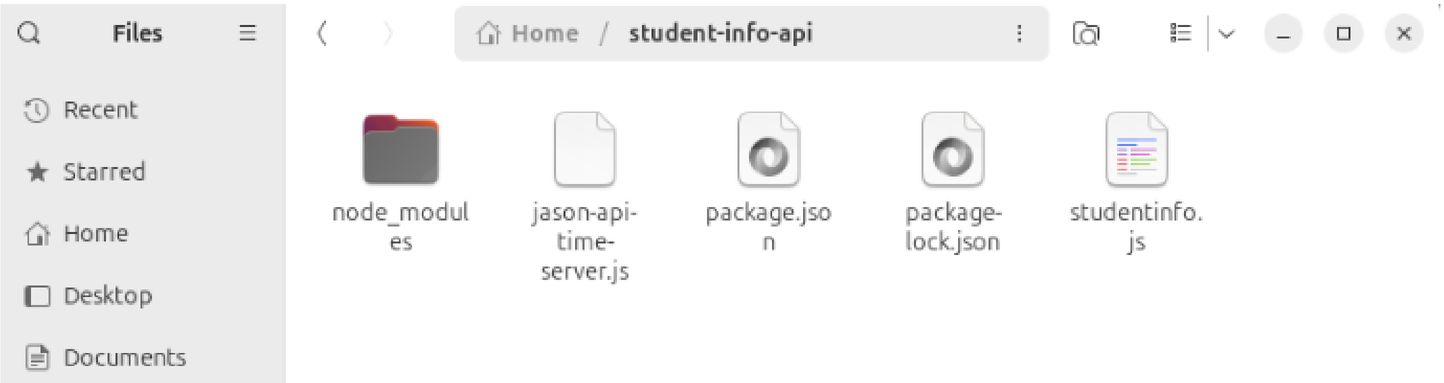


```
alien@alien-Virtual-Machine:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 24.04.1 LTS
Release:        24.04
Codename:       noble
alien@alien-Virtual-Machine:~$
```



```
^C
alien@alien-Virtual-Machine:~/student-info-api$ node -v
v18.19.1
alien@alien-Virtual-Machine:~/student-info-api$ 
```

Step 2: Jason-api-time-server.js file created in the directory:

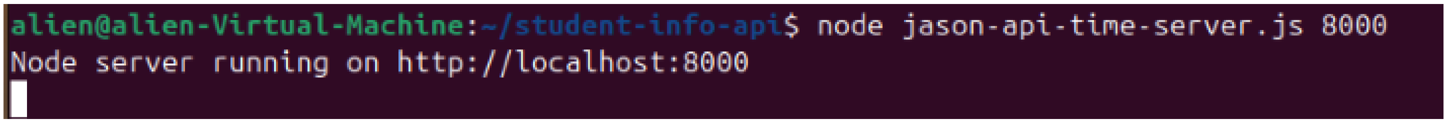


Code Explanation:

1. **Modules Required**:
   - We import the http module to create an HTTP server.
   - We use the url module to parse the incoming request URLs.
2. **Creating the Server**:
   - We create an HTTP server using http.createServer(). Inside the callback, we handle incoming requests.
3. **Parsing the Request**:
   - The req.url is parsed using new URL(), which gives us an easy way to access the path and query parameters.
   - We check if the path matches /api/parsetime or /api/unixtime and extract the iso parameter.
4. **Handling the Endpoints**:
   - For /api/parsetime, we create a response object containing the hour, minute, and second extracted from the date.

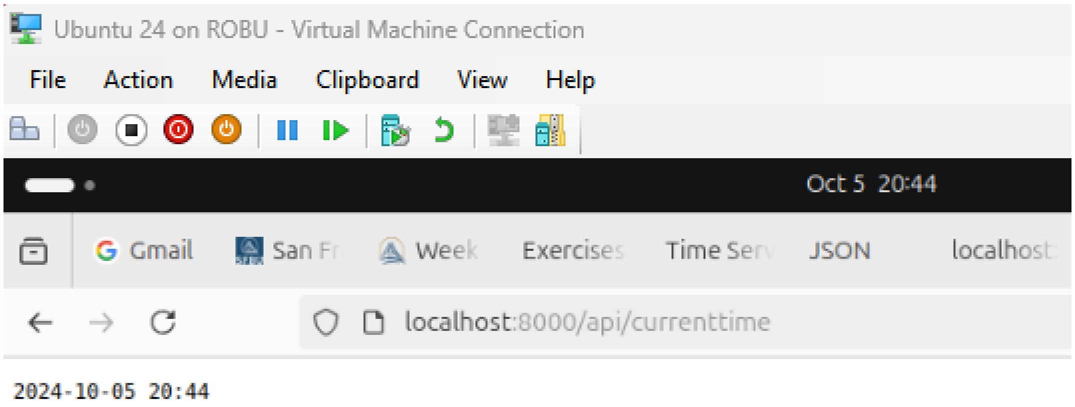
   - For /api/unixtime, we return the UNIX timestamp in milliseconds.
   - If the path is invalid or the iso parameter is missing, we respond with a 404 error.
5. **Response Headers**:
   - We set the Content-Type header to application/json for JSON responses.
   - We end the response with JSON.stringify() to convert our response object into a JSON string.
6. **Listening on the Specified Port**:
   - The server listens on the port specified in the command line argument.

Step 3: Run **json-api-time-server.js** file and specify the port:



```
alien@alien-Virtual-Machine:~/student-info-api$ node jason-api-time-server.js 8000
Node server running on http://localhost:8000
```

Step 4: Testing the Endpoints: http://localhost:8000/api/currenttime



```
2024-10-05 20:44
```

Google Slide Link: https://docs.google.com/presentation/d/1oRGb5vexvto3W3PmegxEvyLHi7Oyl6VWdqjq2iHIKvk/edit?usp=sharing