

HTTP JSON API Node.js Time Server

<https://github.com/Junehuit/javascript-projects-/>

1.0 Time Server

```
const http = require('http');

// Function to zero-fill numbers to two digits
function zeroFill(i) {
  return (i < 10 ? '0' : '') + i;
}

// Function to format current date and time
function now() {
  const d = new Date();
  return d.getFullYear() + '-' +
    zeroFill(d.getMonth() + 1) + '-' +
    zeroFill(d.getDate()) + ' ' +
    zeroFill(d.getHours()) + ':' +
    zeroFill(d.getMinutes());
}

// Create server
const server = http.createServer(function(socket) {
  // Send date and time in the specified format
  socket.end(now() + '\n');
});
```

```
// Server listens on a port provided by the first command-line argument
```

```
server.listen(process.argv[2]);
```

2.0 HTTP JSON API Node.js

```
const http = require('http');
```

```
const url = require('url');
```

```
// Function to parse time into hour, minute, and second
```

```
function parseTime(isoTime) {
```

```
  const date = new Date(isoTime);
```

```
  return {
```

```
    hour: date.getHours(),
```

```
    minute: date.getMinutes(),
```

```
    second: date.getSeconds()
```

```
  };
```

```
}
```

```
// Function to get UNIX epoch time
```

```
function getUnixTime(isoTime) {
```

```
  const date = new Date(isoTime);
```

```
  return { unixtime: date.getTime() };
```

```
}
```

```
// Create an HTTP server
```

```
const server = http.createServer((req, res) => {  
  // Parse the request URL  
  const parsedUrl = url.parse(req.url, true);  
  const pathname = parsedUrl.pathname;  
  const isoTime = parsedUrl.query.iso;  
  
  let result;  
  
  // Check the endpoint and execute the appropriate function  
  if (pathname === '/api/parsetime') {  
    result = parseTime(isoTime);  
  } else if (pathname === '/api/unixtime') {  
    result = getUnixTime(isoTime);  
  }  
  
  // Send the response in JSON format  
  if (result) {  
    res.writeHead(200, { 'Content-Type': 'application/json' });  
    res.end(JSON.stringify(result));  
  } else {  
    res.writeHead(404);  
    res.end();  
  }  
});  
  
// Listen on the port provided as the first command-line argument
```

```
const port = process.argv[2] || 8000;
server.listen(port, () => {
  console.log(`Server listening on port ${port}`);
});
```