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Cs571_cloud_computing_infrastructure 19615 gayatri kolekar
```

1. Create file named jason api server.js

```
// Write an HTTP server that serves JSON data when it
// receives a GET request to the path '/api/parsetime'.
//
var http = require('http')
var url = require('url')
// - Expect the request to contain a query
// string with a key 'iso' and an ISO-format time as
// the value. For example
    /api/parsetime?iso=2013-08-10T12:10:15.474Z
// - The JSON response should contain only 'hour', 'minute'
// and 'second' properties. For example:
//
//
   {
//
    "hour": 14,
     "minute": 23,
//
```

```
//
    "second": 15
//
    }
//
function parsetime (time) {
 return {
  hour: time.getHours(),
  minute: time.getMinutes(),
  second: time.getSeconds()
 }
}
// Add second endpoint for the path '/api/unixtime' which
// accepts the same query string but returns UNIX epoch
// time under the property 'unixtime'. For example:
//
    { "unixtime": 1376136615474 }
function unixtime (time) {
 return { unixtime : time.getTime() }
}
var server = http.createServer(function (reg, res) {
 // req.url = /api/parsetime?iso=2013-08-10T12:10:15.474Z
```

```
//
      or
// reg.url = /api/unixtime?iso=2013-08-10T12:10:15.474Z
var parsedUrl = url.parse(req.url, true)
// time = 2013-08-10T12:10:15.474Z
var time = new Date(parsedUrl.query.iso)
var result
// match req.url with the string /api/parsetime
if (/^\/api\/parsetime/.test(req.url))
 // e.g., of time "2013-08-10T12:10:15.474Z"
 result = parsetime(time)
// match req.url with the string /api/unixtime
else if (/^\/api\/unixtime/.test(req.url))
 result = unixtime(time)
if (result) {
 res.writeHead(200, { 'Content-Type': 'application/json' })
 res.end(JSON.stringify(result))
} else {
 res.writeHead(404)
 res.end()
```

}})server.listen(Number(process.argv[2]))

2. Open terminal and make sure you are in right directory.

Step 1: on the server

\$ node jason api server.js 8000

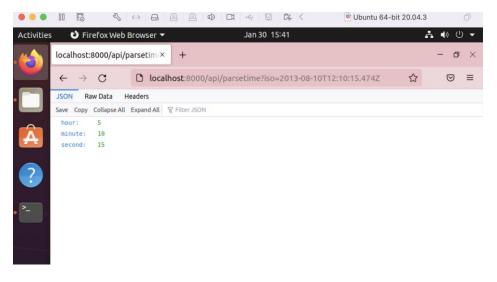
gayatrikolekar@ubuntu:~/Documents\$ node json_api_server.js 8000

Step 2: on the client browser

http://localhost:8000/api/parsetime?iso=2013-08-10T12:10:15.474z

The browser displays

{"hour":5,"minute":10,"second":15}



Step 3: on the client browser

http://localhost:8000/api/parsetime?iso=2013-08-10T12:10:15.474z

The browser displays

{"unixtime":1376136615474}

