

Exercise on NodeJS Routing Without Express JS

1. Write a Node Snippet [Functions] to make use of http module
 - a. Route to index.html [if (request.url == '/')
 - b. Route to foo.html [if(request.url == '/foo')
 - c. Modify the Same Using Switch Statements for Routes.
2. Create a router module. It should receive a URL. It should return the path of a static file which you can then serve out, or else return nil. Your node app can now `var router = require('./router');` You can pass the url to the router and get back the file that should be returned
3. Create a controller module. It should have methods in it which can write to the response object. Now have your router send messages to your controller.

Exercise on NodeJS Serving Static HTML Pages and Handling JSON

1. Write a Node Snippet to Serve Static Files (Like index.html)
 - a. Which is kept in the file System.
 - b. The resources available under the /static/ prefix.
 - c. To define multiple folders at the same time.
2. Write a Node Snippet to demonstrate JSON API With ExpressJS

Exercise on NodeJS --Express JS And Templating Frameworks

1. Write a Node Snippet Which Uses Express JS
 - a. Create an Express Application using the top level function

- b. Define a Port No for App as 3000
 - c. Routes HTTP GET requests to the specified path "/" with the specified callback function
- 2. Write a Node Snippet on Using GET API and POST API using Express [On Users].
- 3. Create a Node Snippet [REST API for CRUD in Express]. Taking an Example of Activities Performed on OrderItem.
- 4. Create a controller module. It should have methods in it which can write to the response object. Now have your router send messages to your controller.
- 5. Using Jade Modify your Node server to use Jade. Instead of outputting a file directly, use Jade to compile a template and return the result.

Exercise on NodeJS –Working With Database

- 1. Write a Node Snippet Which Uses OracleDB
 - a. Connect with OracleDB.
 - b. Connect to OracleDB, print 'Connected!' and close the connection.
- 2. Write a Node Snippet to
 - a. Insert Record for Department Table.
 - b. Find **All** Records Available in Department Table.
 - c. Update Department Table using ID
 - d. Remove Department From Table
- 3. Write a Node Snippet Which Uses OracleDB – NodeJS – ExpressJS
 - a. Create a Model for Departments [Using EO Concept]
 - b. Querying your Oracle Database With Express Using a Simple GET Request.

