

Assignment 3-a

38271

N-10

Title : Static Web server

Problem Statement : Create a Node JS application which serves a static website.

Objective : Use necessary modules like http, url, fs, path, etc for creation of server and file

S/W Packages and H/W apparatus used :

OS / Application / code editor : Ubuntu / Windows, nodejs

Theory :

Here we will build a static file web ~~services~~ server which will list out all the files in the directory and on clicking the file name it displays the file ~~cont~~ content. Steps for creating a static file server is as follows

Step 1 : Importing necessary modules, and defining Multipurpose Internet Mail Extension which helps browser to understand the type of file that is being sent

Step 2: Creating a server at the port specified

Step 3: We will respond the URL "/" to list all the files in the directory. We will limit this article to the current working directory only. Add the below code to the server's function call.

Step 4: Preprocessing the requested file pathname to avoid directory traversal.

Step 5: Finally, check whether the file exists. If exists then send the file with proper header 'Content-type' having values as per the file extension mapped with ~~the~~ MIME type.

Conclusion: Thus, we have used http, fs, url, path modules to create static file web server.