

DEMO NOTES FOR CREATING A WEB APPLICATION TO DEMONSTRATE REST API SERVICES

- Install Node.js from its official website
 - Go to the command prompt in your folder and type ***node -version*** to check if node is successfully installed
 - ***npm init***: npm is the default package manager for Node.js. Initialized using the shown command
 - package name: demo
 - description: demo for creating a rest api in javascript
 - entry point: script.js; from where process workflow will start
 - author: your name
 - Press enter for default values of all other parameters
 - Meta data for application is now created. Check that you have a *package.json* file in the folder now. It has all the meta data needed for the application.
 - ***npm i express***: Install express.js. It is the backend web application framework for NodeJs
 - ***npm i joi***: install joi. Joi is a powerful schema description language and data validator for JS Library to validate server
 - ***npm i -g nodemon***: install nodemon. Nodemon is a tool that helps develop node.js based applications by automatically restarting the node application server when file changes in the directory are detected.
 - Write *script.js*—The file is in the github repository uploaded on the class website. The file comprises coding steps to send/post/put requests from client to the server. It also comprises steps of how the server should send response based on the requests
 - ***node script.js*** : Go back to the terminal and start running the server now.
 - To demonstrate how the application performs, we are using **postman** => A chrome plugin/desktop agent that can send requests to the server.
 - Download and Install postman.
 - Go to new => http services => with the server running, select the method as GET => type your server address. **localhost:8080/ => welcome message should appear**
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- To display all students: Use method GET and url as **localhost:8080/api/students**
 - Similarly test out all other functions coded in script.js to explore the functionalities.
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