Setup:

1. Install node , check if node install by command ‘node -v’
2. Install vscode / webstrom
3. Npm – node package manager..
4. Npm init create a package.json script..
5. .json file.
6. Dependency,
7. Npm start script.
8. Npm install , node modules.
9. Install express , mongoose, dotenv.,

Node JS webserver:

1. Client , Webserver.
2. Request, Response [1 req – 1 res]
3. Port in webserver. [Request on a port]
4. NodeJs – A runtime Environment. [Express as a server]
5. Endpoints [a path to req] , Endpoints = Server URL + ENDPOINTS path
   1. [www.sitename.com/user](http://www.sitename.com/user) here, [www.google.com](http://www.google.com) = url , /user = endpoint path
6. After give a req to endpoint url, a res comes back as JSON data
7. API = Application programming Interface is a bunch of “public/private” endpoints
8. HTTP req packet:
   1. Request Line[urls],
   2. Header[user agent{browser name}, cookies, etc ],
   3. Body[…datas]
9. HTTP Req types:
   1. GET – get datas
   2. POST – submit/insert data
   3. PUT – replace/update data(changes full source)
   4. PATCH – replace/update data(changes a part of source)
   5. DELETE – Delete data
10. HTTP Response packet:
    1. Status line [200- OK, 404 – file not found etc.…]
    2. Headers [server/content info, {server: express, content-type:html} etc.]
    3. Body[requested data return here… ]
11. HTTP Response Status:
    1. 2XX = Success [200:OK, 201:Created, 202:Accepted]
    2. 3XX = Redirections [301:Moved Permanently, 302:Found]
    3. 4XX = Client Error [400:Bad req, 401:Unauthorized, 403:Forbidden, 404:Not Found,405:Method Not Allowed]
    4. 5XX = Server Error [500:Internal Server Error, 502:Bad Gateway ]