Node/JS REST API

- REST stands for REpresentational State Transfer. REST is web standards based architecture and uses HTTP Protocol. It revolves around resource where every component is a resource and a resource is accessed by a common interface using HTTP standard methods
- A REST Server simply provides access to resources and REST client accesses and modifies the resources using HTTP protocol. Here each resource is identified by URIs/ global IDs. REST uses various representation to represent a resource like text, JSON, XML but JSON is the most popular one
- Web services based on REST Architecture are known as RESTful web services. These webservices uses HTTP methods to implement the concept of REST architecture. A RESTful web service usually defines a URI, Uniform Resource Identifier a service, which provides resource representation such as JSON and set of HTTP Methods

```
app.get('/listUsers', function (req, res) {
   fs.readFile( __dirname + "/db/" + "jsonDB.json", 'utf8', function (err, data) {
       console.log( data );
       res.end( data );
   });
})

app.get('/addUser', function (req, res) {
   // First read existing users.
   fs.readFile( __dirname + "/db/" + "jsonDB.json", 'utf8', function (err, data) {
       data = JSON.parse( data );
       data["user4"] = user["user4"];
       console.log( data );
       res.end( JSON.stringify(data));
   });
})

app.get('/:id', function (req, res) {
   // First read existing users.
   fs.readFile( __dirname + "/db/" + "jsonDB.json", 'utf8', function (err, data) {
       users = JSON.parse( data );
       var user = users["user" + req.params.id]
       console.log( user );
       res.end( JSON.stringify(user));
   });
})
app.get('/deleteUser/:id', function(req, res){
  fs.readFile( __dirname + "/db/" + "jsonDB.json", 'utf8', function (err, data) {
       data = JSON.parse( data );

       delete data["user"+req.params.id];

       console.log(data);

       res.end( JSON.stringify(data) );
   });
```