REST API (express server)

# example code (index.js)

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| // require list.  var express = require('express');  var app = express();  var fs = require('fs');  var PORT = 8000;  // SET reqest.body PARSER  app.use(express.json());  app.use(express.urlencoded({ extended: true }));  // External router definition.  var user = require('./main')(app, fs);  // SERVER START  var server = app.listen(PORT, function(){  console.log('express server has started on port %d',PORT)  }); |

# example code (main.js)

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| module.exports = function (app,fs)  {  // LOAD USER\_LIST  app.get('/userlist',function(req,res){  // LOAD JSON DATA  fs.readFile(\_\_dirname+'/data/'+'user.json','utf8',function (err, data){  console.log(data);  //SEND USER LIST  res.end( data );  });  });  // FIND USER\_INFO  app.get('/Find/:username', function(req, res){  // LOAD JSON DATA  fs.readFile( \_\_dirname + "/data/user.json", 'utf8', function (err, data) {  //PARSING JSON DATA  var users = JSON.parse(data);  //SEND USER DATA  res.json(users[req.params.username]);  });  });  // ADD USER  app.post('/Add/:username', function(req, res){  var result = { };  var username = req.params.username;  //CHEK RQUEST BODY  //console.log(req.body)  // CHECK REQUEST DATA  if(!req.body["GM"] || !req.body["name"] || !req.body["meme"]){  // IF DATA ERROR -> SEND ERROR DATA  result["Add\_success"] = 0;  result["Add\_error"] = "invalid request";  res.json(result);  return;  }  // LOAD DATA & CHECK DUPLICATION  fs.readFile( \_\_dirname + "/data/user.json", 'utf8', function(err, data){  // PARSING JSON DATA  var users = JSON.parse(data);  if(users[username]){  // DUPLICATION FOUND -> SEND ERROR DATA  result["Add\_success"] = 0;  result["Add\_errorr"] = "duplicate";  res.json(result);  return;  }  // ADD TO DATA  users[username] = req.body;  // SAVE JSON DATA  fs.writeFile(\_\_dirname + "/data/user.json",  JSON.stringify(users, null, '\t'), "utf8", function(err, data){  result = {"Add\_success": 1};  res.json(result);  })  })  });  //UPDATE USER  app.put('/update/:username', function(req, res){  var result = { };  var username = req.params.username;  //CHEK RQUEST BODY  //console.log(req.body)  // CHECK REQ VALIDITY  if(!req.body["GM"] || !req.body["name"] || !req.body["meme"]){  // IF DATA ERROR -> SEND ERROR DATA  result["Update\_success"] = 0;  result["Update\_error"] = "invalid request";  res.json(result);  return;  }  // LOAD DATA & CHECK DUPLICATION  fs.readFile( \_\_dirname + "/data/user.json", 'utf8', function(err, data){  // PARSING JSON DATA  var users = JSON.parse(data);  if(users[username]){  // USER FOUND  // ADD TO Update\_DATA  users[username] = req.body;  // SAVE DATA  fs.writeFile(\_\_dirname + "/data/user.json",  JSON.stringify(users, null, '\t'), "utf8", function(err, data){  result = {"Update\_success": 1};  res.json(result);  })  return;  }  // UESR NOT FOUND  result["Update\_success"] = 0;  result["Update\_error"] = "user\_cannot\_found";  res.json(result);  })  });  // DELETE USER  app.delete('/delete/:username', function(req, res){  var result = { };  var username = req.params.username;  // LOAD DATA & CHECK DUPLICATION  fs.readFile( \_\_dirname + "/data/user.json", 'utf8', function(err, data){  // PARSING JSON DATA  var users = JSON.parse(data);  if(! users[username]){  //USER CANNOT FIND  result["Delete\_success"] = 0;  result["Delete\_error"] = "user\_cannot\_found";  res.json(result);  return;  }  // DUPLICATION FOUND  // DEl DATA  delete users[username];  // SAVE DATA  fs.writeFile(\_\_dirname + "/data/user.json",  JSON.stringify(users, null, '\t'), "utf8", function(err, data){  result = {"Delete\_success": 1};  res.json(result);  })  })  });  } |

# **example result**

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