

2 PLM360 Node.js Example

Sample Code

Main Code Example: apps.js

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```
var log4js = require('log4js');
var plm360 = require("./plm360doer.js");
var fs = require('fs');

var logger = log4js.getLogger();
logger.setLevel('ERROR');

var config = require('./config.json');
logger.debug(config.username + ':' + config.password);

var sessionId;
var responseObject;

var printRecords = function (responseObject) {
    logger.error (responseObject);
}

var saveRecords = function (inputString) {
    fs.writeFile("D:\\node\\class\\output.json", inputString, function(err) {
        if(err) {
            return console.log(err);
        }

        console.log("The file was saved!");
    });
}

var saveSessionId = function(sessionId) {
    logger.error("Session ID: " + sessionId);
    plm360.runAPI(command, method, sessionId, saveRecords);
};

var command = '/api/rest/v1/workspaces/57/items';
var method = 'GET';

plm360.login(config.username, config.password, saveSessionId);
```

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Import Code: plm360doer.js

```
var querystring = require('querystring');
```

```

var https = require('https');
var environment = require('./environment.json');

var host = environment.tenant + "." + environment.domain;

var dologin = function(theUsername, thePassword, callback) {

    performRequest('/rest/auth/1/login', 'POST', {
        userID: theUsername,
        password: thePassword,
    }, function(data) {
        sessionId = data.sessionid;
        callback(sessionId);
    });
}

function performRequest(endpoint, method, data, success) {
    var dataString = JSON.stringify(data);
    var headers = {};

    if (method == 'GET') {
        endpoint += '?' + querystring.stringify(data);
        console.log("Trying to get");
    }
    else {
        headers = {
            'Content-Type': 'application/json',
            'Content-Length': dataString.length
        };
    }
    var options = {
        host: host,
        path: endpoint,
        method: method,
        headers: headers
    };

    var req = https.request(options, function(res) {
        res.setEncoding('utf-8');

        var responseString = '';

        res.on('data', function(data) {
            responseString += data;
        });

        res.on('end', function() {
            console.log(responseString);
            var responseObject = JSON.parse(responseString);
            success(responseObject);
        });
    });

    req.write(dataString);
    req.end();
}

function runAPI(command, method, session, success) {

```

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```
var headers = {
  'Cookie': 'token=' + environment.tenant + ';JSESSIONID=' + session,
  'Accept': 'application/json'
}

if (method == 'GET') {
  console.log("Trying to get");
}
else {

}

var options = {
  host: host,
  path: command,
  method: method,
  headers: headers
};

var req = https.request(options, function(res) {
  res.setEncoding('utf-8');

  var responseString = '';

  res.on('data', function(data) {
    responseString += data;
  });

  res.on('end', function() {
    var responseObject = JSON.parse(responseString);
    success(responseString);
  });
});

req.end();
}

module.exports.login = dologin;
module.exports.runAPI = runAPI;
```

Environment: environment.js

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```
{
  "tenant" : "ADSKMANDATT",
  "domain" : "autodeskplm360.net"
}
```

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Config: config.js

Expand

```
{  
  "username" : "tony.mandatori",  
  "password" : "*****"  
}
```

source

Output looks like this:

```
DEBUG CONSOLE  
node --debug-brk=17598 --nolazy app.js  
Debugger listening on port 17598  
{"userid":"tony.mandatori@autodesk.com","sessionid":"10CDDCF4756059F1646099B6F56DD9ED","customerToken":"ADSKMANDATT","authStatus":{"id":200,"description":"LOGIN_OK"}}  
[2016-03-11 17:17:04.394] [ERROR] [default] - Session ID: 10CDDCF4756059F1646099B6F56DD9ED  
Trying to get  
The file was saved!
```