

Node.js for Beginners

Lab Exercise 3

Answer Key

1. Write a script that takes a CSV file and imports into MonogDB.

```
// usage:
// $ ./path/to/script.js /path/to.csv

// this script assumes that the csv will have row 1
with column names. It will fail otherwise

// connect to monogo
var fs = require('fs');
var file = process.argv[0]; //this is the parameter
passed by the commandline user
var MongoClient = require('mongodb').MongoClient;
MongoClient.connect('mongodb://127.0.0.1:27017/
csv',function(err,db) {
    if(err) return console.log(err);
    console.log('mongodb connected');

    fs.readFile(file,'utf8',function(err,data) {
        if(err) return console.log(err);
        //break up csv into an array of lines
        var lines = data.split("\n"),
        //break up first row into an array of columns
        columns = lines[0].split(',');

        //take out the first line
        var docs = lines.splice(1);

        for(var i = 0; i < docs.length; i++) {
            var obj = {};
            docs[i] = docs[i].split(',');
```



```

        for(var j = 0; j < columns.length; j++)
    {
        obj[columns[j]] = docs[i][j]
    }
    docs[i] = obj;
}
//you can import multiple docs at once with
import if you pass it an array
    db.collection('import').
insert(docs,function(err,result) {
    if(err) return console.log(err);
    console.log('import complete');
    process.exit();
});
});
});

```

2. Write an Express server that persists all post requests to MongoDB.

```

var express = require('express'),
    app = express(),
    MongoClient = require('mongodb').MongoClient;
app.use(express.bodyParser());

MongoClient.connect('mongodb://127.0.0.1:27017/
reqImporter',function(err,db) {
    if(err) return console.log(err);
    console.log('mongodb connected');

    app.post("*",function(req,res) {
        db.collection('req').insert(req.
body,function(err,result) {
            if(err) return console.log(err);
            res.send(201);
        });
    });
}

```



```
    });  
  
    app.listen(9000);  
});
```

3. Use Mongoose and Express to track post requests containing 'name' and 'email'

```
var express = require('express'),  
    app = express(),  
    mongoose = require('mongoose');  
mongoose.connect('mongodb://localhost/users')  
app.use(express.bodyParser);  
  
var UserSchema = mongoose.Schema({  
    name:String,  
    email:String  
});  
  
mongoose.model('Users',UserSchema);  
  
app.post('*',function(req,res) {  
    mongoose.model('Users').create(req.  
body,function(err,user) {  
        if(err) throw err;  
        res.json(user);  
    });  
});  
  
app.listen(9000);
```

