# Abstract

This is a sample stack for ANEML (Angular, Node.js, Express, MarkLogic). Pronounced “animal”.

The framework was constructed using this website as a guide:

http://expressjs.com/starter/installing.html

# Architecture overview

There are two components:

1. Node.js Server. This code is in ./myapp/furserver.js

To start the server type: "node furserver.js"

It will now be listening at: 3000

Port is specified in furserver.js

Node API Docs: http://developer.marklogic.com/learn/node-client-api

2. Angular JS Client. This code is in ./index.html and ./script.js

3. Install MarkLogic Node.js development client

sudo npm install marklogic

\*See detailed instructions in the ML node-dev.pdf Developers Documentation

# Demo toolkit Installation

## Install Node.js

* Install Node from <https://nodejs.org>
* Once you've installed node, you will have an npm command.

## Install Express

* Create a package.json file in the directory of interest, if it does not exist already, with the npm init command.
  + $ npm init
* Install Express in the app directory
  + $ npm install express –save
  + $ npm install express

## Install MarkLogic Node.js Client

* $ npm install marklogic –save

## Install Bootstrap CSS Style Sheets (OPTIONAL)

* $ npm install bootstrap

## Install Demo Code

* get from GitHub

# To Run The Demo

## Start the Node.js Server

* $node server.js

# Testing

CTS:Search in Query Console

// find all documents with the word "car" and count them

var count = 0;

var results = new Array();

for (var result of cts.search(cts.andQuery([

cts.wordQuery("marklogic")])) ) {

count++;

//results.push(result);

};

results.push(fn.concat("Count = ", count));

results;

# TODOs

1. Query with Document Joins
2. AuthN via LDAP
3. AuthZ
4. Reporting
   1. Tableau
   2. Pentaho
   3. Qlick
5. Semantics and ontologies

# Appendix

## Working with Git

1. git init
2. vi .gitignore
   1. Add node\_modules
3. Git add -A //Recursibly adds all files to local git repository
4. Git commit –m “<<comment>>” //local commit
5. Git remote add origin <https://sfurlong@github.com/sfurlong/aneml.git>
6. git push -u origin master
7. Git status
8. Git log
9. Git diff head
10. Git push