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IT Project Plan

**Needs:**

* 2x Servers
  + Web Server
    - 1x vCPU
    - 4 GB RAM
    - CentOS 7.1
    - Node.js
  + Database Server
    - 4x vCPUs
    - 8 GB RAM
    - PostgreSQL
    - CentOS 7.1

Each server is run on my VMWare cluster in my house. The cluster consists of 2x HP DL360 G6 servers with 2xL5630 and 144 GB of RAM in each host.

Using virtualization allows us to expand resources on-the-fly as the scope of the project expands, however, I believe that these resources should provide us with enough for the time being.

The server is accessed via a website, for the prototype phase, this will be <http://www.capping.xyz>.

Developing on top of Node.js allows us to maintain platform independence. Node.js can be easily run on POWER, System X and System Z and the various different operating systems that run on those platforms.

Using two separate servers for the web server and database server allows us to better emulate the Marist production environment. If this prototype were to be put into production, the database would be hosted on the Marist SQL server. We can then better plan for any issues that might come up by using an external database.