

### Phase I Development

Back End - Administration	Front End - Client
<p>This is where we will be able to view clients &amp; their networks, support clients, and add/remove devices for clients, etc.</p> <p>Admin will need the following functions.</p> <ul style="list-style-type: none"><li>• Login &amp; Logout</li><li>• Add, edit, and remove Admin accounts.</li><li>• View Client Accounts<ul style="list-style-type: none"><li>◦ Their networks and nodes detected.</li></ul></li></ul>	<p>Clients will need to register for a free account which will give them access to our suite of tools and order devices for network monitoring &amp; management.</p> <p>Once registered, Client will need the following functionality.</p> <ul style="list-style-type: none"><li>• Login &amp; Logout</li><li>• Register Raspberry PI to their devices.</li><li>• Assign the Raspberry Pi to a specific network.<ul style="list-style-type: none"><li>◦ Add notes to the device regarding where this item is placed on the network, switch port, misc notes, etc.</li></ul></li><li>• View nodes that the Raspberry PI has detected on the network and see the status rather it is UP (green) or DOWN (red).</li></ul>

The development laid out above will be based on a CentOS server running Apache, MySQL, and running the latest PHP.

The Raspberry PI development will be based on Python. What we need when bootup of the PI, the program will wait for a network configuration, connect via OpenVPN back to our servers, and allows a registration to a client based on a code, mac address, network ID, etc.

Next the PI should run a network ping sweep and any devices that respond, add these NODES to a DB on the Elev8 server, which is viewable from the Back End - Admin and Front End - Client logins.

Next, the PI needs to run a ping sweep once every 1 - 2 minutes and report any changes of status to the NODES via the DB, which is again viewable via Back End and Front End.

Development needs to be well documented and provided at the close of this project. All steps to setup a Raspberry PI for a new client will be required. If we need to install a program on the PI, I need to know what program, what steps to follow, etc.

End of Phase I

