

# Hexonet Coding Application

## Run the application - WHOIS QUERY

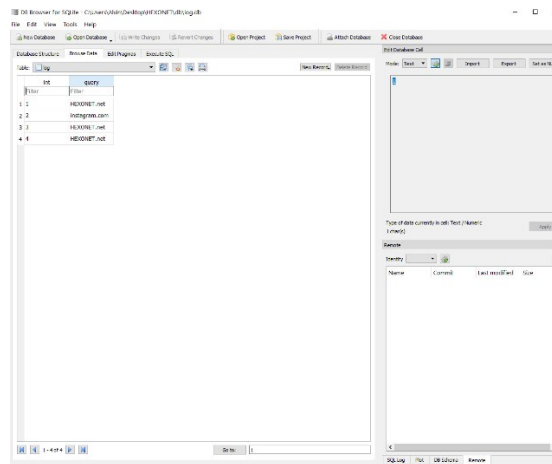
1. npm install
2. node app.js
3. go to localhost:8000
4. submit and see the result (preset to hexonet.net, or search other domain)
5. If not working, try to remove the node\_modules folder and package-lock.json ,and npm install again

## Thought process:

Summary of the **WHOIS QUERY** application: First, I used Net to set up the server and connecting to [whois.verisign-grs.com](http://whois.verisign-grs.com) port 43 and returns a new Socket , so we can use the WHOIS protocol.

Then I used express() and bodyParser() which allow the form data to be available in req.body , and output in JSON format.

For logs, I use SQLITE database which has 2 field. **int** : Integer (Auto increment) , and the **query** : String (Domain name).



For the front-end part, I used bootstrap to do styling. The result will be shown and updated after each query is submitted, and render by ng-bind-html.

For security measures, as we sending to the TCP connection, I used encodeURIComponent() to encodes the output for data security. There are more potential security problems in the TCP protocol, such as routing attack since it does not have authentication. Also, the request from server may be one of the problems too.