We are allowing up to 3 days to submit this coding assignment, for those that need to read-up on Node.js and AngularJS first.    
  
Please submit a zip file with all your code and documentation by 12:00 pm on Thursday, [ahuang@hexonet.net](mailto:ahuang@hexonet.net) Additionally, please include an explanation on how to run the application as well as a short half page write up explaining your thought process in producing the application and what security measures you implemented and why.  
  
If you have any questions please feel free to email.

-------------  CODING APPLICATION INSTRUCTIONS -----------------   
  
Here is the assignment and some steps for you:  
  
Purpose: Create a one single-page application using AngularJS and Node.js, which provides a simple menu with only one options: "WHOIS QUERY".  You need to consider security issues and create a secure application (no HTTPS needed though).  Also, you will need to explain which security measures you took and why in your write up.

"WHOIS QUERY" - ANGULAR JS Front-end

* in an one page angular application, have a single text box to enter a domain name (like "[hexonet.net](http://hexonet.net/)") and a submit button
* the angular application should submit to a node.js server and retrieve the whois information for "[hexonet.net](http://hexonet.net/)" and then display the information in the one page application.

"WHOIS QUERY" - NODE.JS Server

* upon receiving a request from the front-end text box the node.js server should connect to [whois.verisign-grs.com](http://whois.verisign-grs.com/) port 43 and use the WHOIS protocol (see below on WHOIS protocol)
* respond back to the angular application the whois information for "[hexonet.net](http://hexonet.net/)" to display the information
* Furthermore it should keep logs of what has been queried in a SQLITE or MondgoDB database (an interface to retrieve the data is not required).

WHOIS Information:

* The whois protocol is described in RFC 3912 - <http://tools.ietf.org/html/rfc3912>
* The whois query script only needs to support .com and .net registry whois via [whois.verisign-grs.com](http://whois.verisign-grs.com/)
* Referral whois support is not needed
* WHOIS Protocol summary: The client connects via TCP to [whois.verisign-grs.com](http://whois.verisign-grs.com/) port 43, sends "$DOMAIN\r\n", and reads the server response, until the connection gets closed by the server.