# CSC561 NoSQL Databases

# Final Project

For our final project of the semester, we will be building a queueing app for walk-ins. This is similar to what we see in restaurants when you add your name to the wait list and receive a text when a table is available. The queue-ing app is a response to the COVID-19 situation so that users can avoid lines/groups of people. For example, <https://csc570e.uis.edu:19000>

You will be using Vue.js/Quasar frameworks to interact with Google Firebase Cloud Firestore a NoSQL cloud backend as a service solution.

I will provide a starting point code for the app with a basic structure and functionality. Your task is to:

* Design a page with an interface for admins to checking users in and mark their status as complete
* Update user display from the list as their status is changed to complete

Extra Credit: Please note that this is completely optional. I have included it because we have a very skilled group of students this summer, and I feel that it is important to challenge you.

* Improve the security of the app by changing the access rules to something more robust than test
* Add user authentication and authorize users as regular users and admins of the application
* Add user authentication by Google
* Add a phone number field to the user input so that we can notify the user when their turn comes up
* Add a ‘Cancel’ feature to allow students to cancel their place in the queue in case something comes up
* Add a reporting tool for stats on visits (number of users helped, average wait time, most popular times of the day, most common reason for visit, etc)
* Validate input, for example, require a username
* Anything else you think would be helpful

This is an actual app that is being developed for UIS. Your efforts will have a direct impact on our “Return to the Prairie” plan for the fall semester. I am turning this project into a contest. We will take the best final project and put it into production for use by various departments at UIS. You will receive credit/acknowledge for your efforts in designing this app.

Video Tutorials

We will be using Google Firebase – Cloud Firestore as well as Vue-js and Quasar:

**Learning Vue.js**

<https://www.linkedin.com/learning-login/share?forceAccount=false&redirect=https%3A%2F%2Fwww.linkedin.com%2Flearning%2Fvue-js-essential-training-2%3Ftrk%3Dshare_ent_url&account=43607124>

<https://www.linkedin.com/learning-login/share?forceAccount=false&redirect=https%3A%2F%2Fwww.linkedin.com%2Flearning%2Fvue-js-essential-training-2%3Ftrk%3Dshare_ent_url&account=43607124>

(You may need to click the Sign In button in the upper right corner, and then log in with your UIS NetID and password.)

**Google Firebase – Cloud Firestore**

[23 min 08 sec]:

<https://cdnapisec.kaltura.com/index.php/extwidget/preview/partner_id/1371761/uiconf_id/13362791/entry_id/1_hndao1fy/embed/dynamic>

**Vue.js/Quasar Application that connects to Google Firebase Cloud Firestore**

[43 min 08 sec]:

<https://cdnapisec.kaltura.com/index.php/extwidget/preview/partner_id/1371761/uiconf_id/13362791/entry_id/1_n2mfaa1k/embed/dynamic>

Use this table to determine which container is yours. You will log into the share with .\NetID for the username (.\tllos1 for example) and your UIN for the password.

|  |  |  |
| --- | --- | --- |
| **Netid** | **Windows share** | **Url of the Node application** |
| chun1 | \\10.64.3.56\chun1 | https://csc570e.uis.edu:9444 |
| dpill2 | \\10.64.3.56\dpill2 | https://csc570e.uis.edu:9445 |
| hague1 | \\10.64.3.56\hague1 | https://csc570e.uis.edu:9446 |
| hcarr4 | \\10.64.3.56\hcarr4 | https://csc570e.uis.edu:9447 |
| hratho4 | \\10.64.3.56\hratho4 | https://csc570e.uis.edu:9448 |
| jkawa4 | \\10.64.3.56\jkawa4 | https://csc570e.uis.edu:9449 |
| jkunk2 | \\10.64.3.56\jkunk2 | https://csc570e.uis.edu:9450 |
| jsing4 | \\10.64.3.56\jsing4 | https://csc570e.uis.edu:9451 |
| kvu5 | \\10.64.3.56\kvu5 | https://csc570e.uis.edu:9452 |
| lgandh3 | \\10.64.3.56\lgandh3 | https://csc570e.uis.edu:9453 |
| lvand2 | \\10.64.3.56\lvand2 | https://csc570e.uis.edu:9454 |
| qvogl2 | \\10.64.3.56\qvogl2 | https://csc570e.uis.edu:9455 |
| rmuth3 | \\10.64.3.56\rmuth3 | https://csc570e.uis.edu:9456 |
| tpoth2 | \\10.64.3.56\tpoth2 | https://csc570e.uis.edu:9457 |
| vmoha2 | \\10.64.3.56\vmoha2 | https://csc570e.uis.edu:9458 |
| vthat3 | \\10.64.3.56\vthat3 | https://csc570e.uis.edu:9459 |
| yayel2 | \\10.64.3.56\yayel2 | https://csc570e.uis.edu:9460 |
| ykuzn2 | \\10.64.3.56\ykuzn2 | https://csc570e.uis.edu:9461 |

**You will not need to submit anything to GitHub. I will grade your assignment by checking the URLs.**