Yuri Khechoyan Khechoyan 1

Dr. Tian

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**qu·eu·ed**

I have created an app called qu·eu·ed. This application is a Queue System that enables establishments such as: Retail Stores, Restaurants, and other locations that deal with many customers every day to better maintain a procedure that aids them with identifying who should be assisted in what order. Currently, in the Google Play Store there is an app that is similar, and in my opinion, far superior to mine. It’s called: *‘QLess – Queuing System’*. My application is designed to assist establishments with eliminating the amount of lines that accumulate at their locations.

The motivation for this app came to me after I have built a similar GUI program for Windows (during Winter Break) & during the Spring Semester in Software Engineering II, I have developed the exact same system as a Web Application using the Spring Framework.

Some of the challenges that I have faced during development of this app were the Database infrastructure and the SMS text message sending. With the database, I had and still have difficulty retrieving information from the database. This is why sending update SMS messages to current customers that are in the list was not implemented. With the SMS messaging system, I first tried to use Twilio. Reason was because my GUI application used Twilio. Since the application that I was developing was for the Android platform (and because Twilio posed problems with the ‘sending’ protocols through their REST API and HTTP), I had to move to the Android API for sending the SMS text messages.

Initially, I wanted the application to have a FIFO (First In, First Out) method of deletion. But then I thought of the possibility of having people leave due to a circumstance in their life to the point that they will no longer need to be in the queue (i.e. family emergency, work related issue, etc.). Therefore, this application lets anyone be deleted: customer at the top of the list, bottom of the list, or someone in the middle (middle-out). The application also enables customers to have their info edited, if needed (name wasn’t spelled correctly or their phone number was mis-typed. The view of the ListView is as follows: ID, Name, Number, Position ID. The first ID is a unique identification number (Primary Key) – similar to a SKU number or a Serial number for a product. The Position ID number will be the number that will correspond to what position they are in line. When someone is deleted, the people below them will move up one spot in the stack and the Position ID number will change accordingly.

There was a lot of hard work that has gone into this. Even though the development of the individual projects started about a month and a half ago (proposals), I didn’t start working on this intensively until a week and a half to two weeks ago. There have been a total of 5 all-nighters, 2 mental break downs, 2,746 Google searches, & almost 4 attempts of throwing my computer out of a window. Even though this is probably not the most revolutionary/innovative application that you have seen (in terms of general idea, features, execution, etc.), I am glad that I got to this point with the application, considering my brain currently resembles melted ice-cream.