Reserve Your Table
Group 10
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Reserve your table is an application that allows users to reserve a table, look up locations of the restaurants, and look at available seats in the restaurant. The application is only available on desktop computers, however, it can easily be ported to a mobile device. As of right now, Adding restaurants is manual. This can be done by switching to restaurant owner mode in the application, then clicking on the add restaurant menu button. This will prompt the user to add the name of the restaurant, location, and total available seats. Also being in restaurant owner mode allows the user to modify the existing restaurant's name, location, or the total number of available seats. There is also a page crediting the application.

For the database, they are held on the sql database. The SQL database currently runs locally. The add restaurant and modify restaurant menu option sends queries to the SQL server to add the restaurant information to the database. We tested the SQL server to make sure that the queries being sent and received were as intended. Once the user clicks on the restaurant on the main screen, they are taken to the reservation screen, which shows information about the restaurant such as the name, location, and availability, and the total number of seats. There a user is shown the location of the map using the OpenMap API. We also tested the API using fake locations, and we got errors. Because of that, we had to error check whatever the Restaurant Owner added, such as names, location, etc. On the reservation Screen, the user can reserve however many seats out of the total number of seats they wish to reserve. This will get updated on the SQL database. To finish up with the reservation there is a done button on the same scene. This will update the database to reflect the change once again.

Since the SQL server is on a local server, there can be multiple users running the app and the information such as available seats would be reflected on each running instance of the applications. Also when adding restaurants or modifying existing restaurants, changes like that will also be reflected in all the running instances of the applications.

The theme of the application is primarily two colors. Navy Blue and Dark Red. We chose this color because they were dark colors and they were easy on the eyes. Since they are dark colors, having black text would be difficult, so we opted to use white text. We also gave each different scene a different title to make sure the user knows exactly where they are in the hierarchy. There is also an exit button, so the user can exit whenever they want to. In the future, the application could benefit from having multiple themes, and an option for color-blind users that would try to negate colors that the color-blind users have a hard time distinguishing. Also adding notifications would not be too far-fetched, but we were not able to implement this feature, as JavaFX has a really complex notification system.

Furthermore, the application was designed simply so that the user gets along and isn't confused by the design of the application, moreover making sure that the application is as inclusive as possible. The application is straightforward on using it. Making sure that the application is accurate on all the restaurants and saves data as the user interacts with it. There can be many more requirements added such As the user is choosing food, the telemetry of what items are being viewed the most will be sent back to the restaurant. This could provide useful information to the restaurant about what people click on the most.