

SPRINT 5

DOCUMENTATION

TEAM NAME:

GKKRR

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TECH STACK USED:

Java to Android

LIST OF WORKING FEATURES:

- a.) Sign in functionality - using employee ID and password
- b.) Search Functionality
 - a. Properly searches all the products from the product table (database) with a given lookup code.
- c.) Making a Transaction
 - a. Shows the list of all products from the **product table** (database) including their Lookup code, Price and quantity
 - b. Adding and removing products from/to the cart list (client side).
 - c. After each transaction is completed. **The transaction table** from the database will be updated with all the necessary information like Cashier name, total price...
 - d. Also, after a transaction is completed, the **transactionentry table** from the database will be updated with the information of each products included in the transaction.
 - e. The number of available products in the **product table** will be updated after each transaction. (**Inventory functionality is working properly**)
- d.) Report: Product
 - a. Shows the list of top selling products, with each product displaying the correct number that was sold.
- e.) Report: Cashier
 - a. Shows the list of highest performing cashiers, sorted by highest number of transaction
- f.) Text-To-Speech Feature (client Side)
 - a. An automated speech feature that dictates all necessary information from every screen

USER GUIDE:

SIGN IN SCREEN

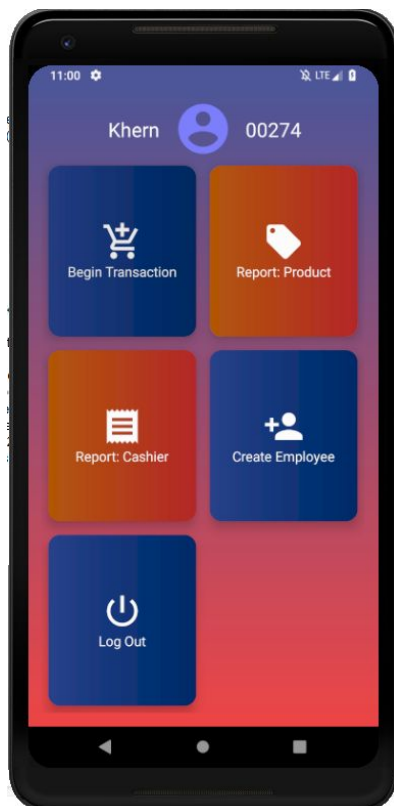
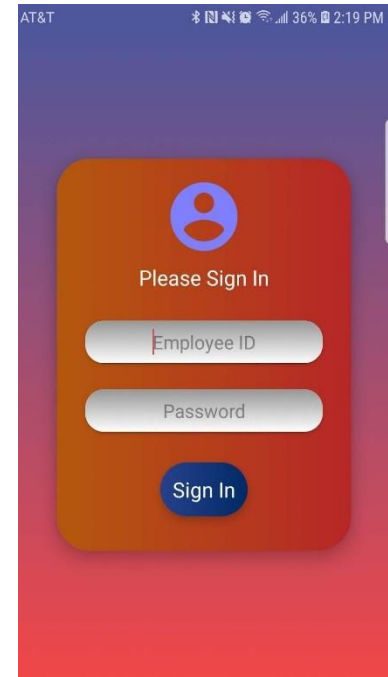
This is the first screen that users will see when opening this app.

On this screen, we can see that the user is prompted to enter their *employee ID* and *password*. After the user provides their credentials they can then tap the “*Sign in*” button to proceed (if proper credentials are provided).

For testing purposes try this example credential:

Employee ID: 260

Employee Password: 12345



MAIN SCREEN

This is the main screen. The users will be directed in this page after they have successfully signed in.

There are 6 different functionalities that employees can use:

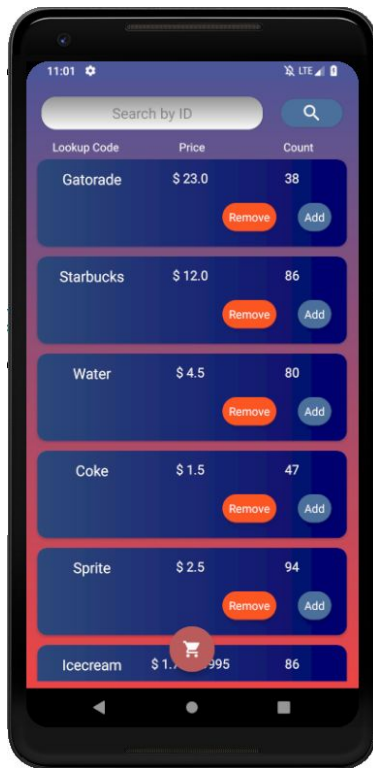
Begin Transaction- This button would direct us to a new page where we are able to select from the list of items and add them to our cart.

Create Employee- This button would direct us to a new screen where we can enter information for a new employee, such as First and Last name, password etc.

Report: Cashier- This button directs us to a screen where we are able to see the top selling cashiers of the month, based on the amount of transactions that cashier has performed.

Report: Product- This button directs us to a screen where we view the most sold items based on quantity.

Logout- Speaks for itself. Returns you to the sign in screen



TRANSACTION SCREEN

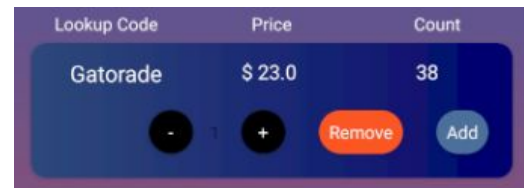
At the top, there is a search bar where users can search any product using the product lookup code.

Underneath the search bar, is the list of products with *Add* and *Remove* button functionality.

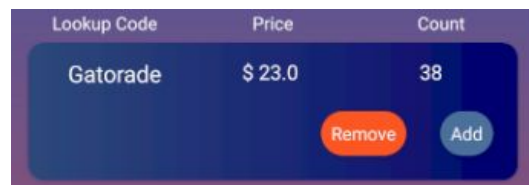
A list of Products, price, and their count will then appear on the screen. Add products to the cart by adjusting the quantity under each item description. To add product, increase the quantity then select “add”. To remove product, decrease the quantity then select “remove”. An example is provided below.


Tap “Add” to insert a product into the cart.

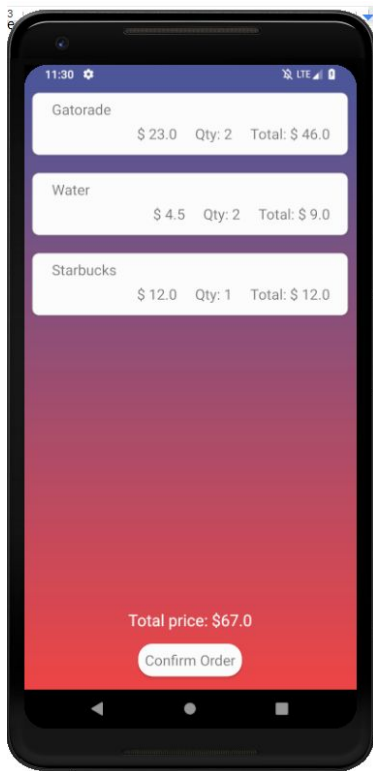
Tap “+” or “-” to change quantity



Tap “Remove” to fully remove a product from the cart.




When ready to checkout, tap the  to continue to the checkout page. This button will direct you to the confirmation screen where the user may review his/her order.



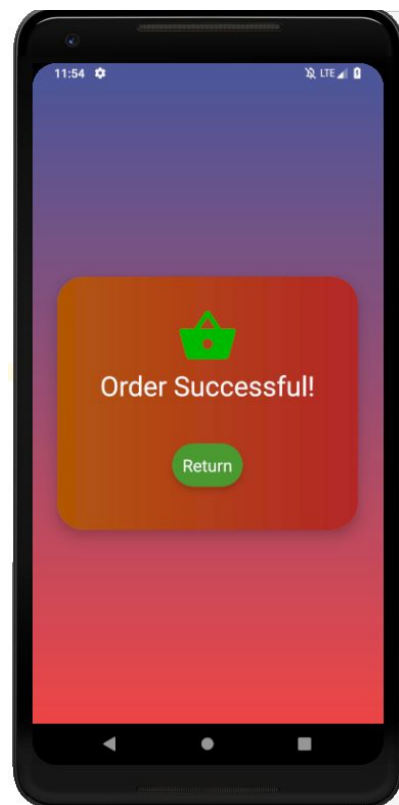
CART SCREEN

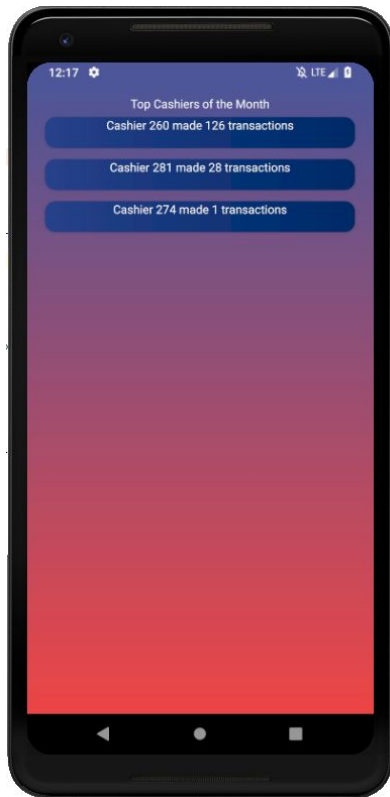
This is the Cart screen, the user can check the current products listed in their cart. Users can also see the product details in their cart, like quantity, product price, and the total prices for each product. The total price of all the products in the cart is shown at the bottom. To confirm

the order, the users can tap the  button. After hitting the button, The user will be directed to the confirmation screen. (Product table, Transaction Table, and Transaction Table from the database will be updated)

CONFIRMATION SCREEN

This screen will show and confirm that the user's transaction was successfully completed. To continue, users can tap the *Return* button, which will then redirect them to the main screen.

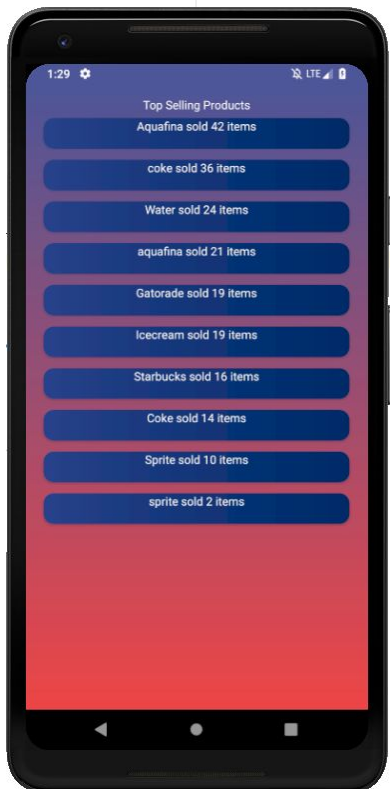




REPORT CASHIER SCREEN

When users tap the *Report: Cashier* button from the main screen, they will be redirected to this screen. In this screen, the user can check out which cashier have the highest number of transaction.

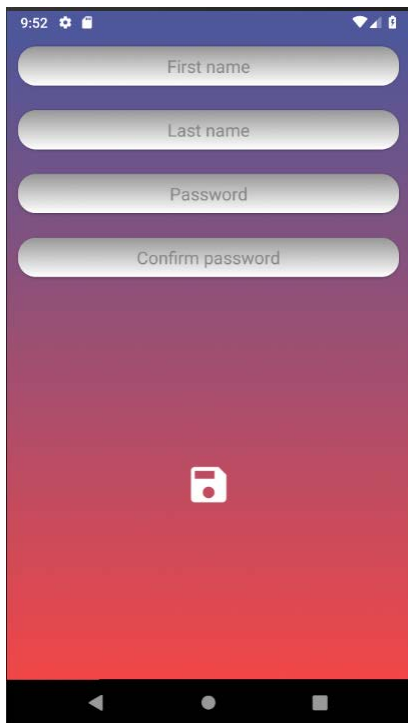
This uses the TransactionQuery command from the client side to query the transaction and counts all the occurrence of a particular cashier ID and sort by the highest number of transaction occurrence.



REPORT PRODUCT SCREEN

When users tap the *Report: Product* button from the main screen, they will be redirected to this screen. In this screen, the user can check out the Top selling products which shows all the products that are sorted by the number of sold items.

This uses TransactionEntryQuery command to query the products in this screen. It counts the frequency of a certain lookup code and store them into a hashmap with key=lookupcode and value=occurrence.



CREATE EMPLOYEE SCREEN

This can be accessed by tapping *Create Employee* Button from the main screen. This screen is made to create new employees. After filling out the necessary employee information, user's can tap the *save icon*

TESTING:

LOGIN

- Use credentials - (employee ID: 260, password: 12345)
- Make a HTTP POST request to [<https://gkrr-app2.herokuapp.com/api/employee/signin/>].
- Include JSON payload { "employeeid": 260, "password": 12345}.
- When this post request is sent, A JSON object is returned with the details of that employee. Ex. First and last name etc.
- Access the database for app "gkrr-app2".
- Run query "SELECT * FROM employee WHERE employeeid = 260;" to verify that the employee details.

Search Functionality(client side)

- Visit the search bar from the transaction screen.
- Type in the name of a product. For example: coke.
- All items which match the search box are brought up to the highest point in the screen.
- In the event that we have a very long list of products, this functionality would be ideal to narrowing the search radius to select items.

Search Functionality(server side)

- Make an HTTP GET Request using the URL:
`https://gkkr-app2.herokuapp.com/api/product/byLookupCode/[LOOKUPCODE]/` on Postman or on a browser.

(replace [LOOKUPCODE] with “Coke” for testing.

- It should return the product object for “Coke” in a JSON format