Notifi Application

By Kien Pham, Brian French, Jeffrey Lehman, Tyler Montague, Alex Mendelsohn, Paul Brower

What is Notifi?

- Clover App
- Notification System (sms&email)
- Easy to use
- Great for small business
- Java application

Design phase:

- Early prototype:
  - Focused on exploring Clover functionality and broadcast receivers
- Mid Assessment:
  - With the basis of broadcast receivers covered, implemented with Clover features
    - Scope change (some features were not implemented)
- Final:
  - Created majority of the user interface and implemented a simple database

Clover Lingo

- ServiceConnector/OrderConnector
  - InventoryConnector (never implemented)
  - Allows a view into the corresponding apps through your device
- Order
  - Created by any order placed in closer (negative, positive, 0)
  - Sends out an Intent, ORDER_CREATED, which we used to trigger events
  - Can be created through several different apps, such as Register, Manual Refund, Orders

The Application

- Created in Android studio
- Completely java-based
- Uses a BroadcastReciever to wait for ORDER_CREATED intent
  - Then updates and checks if notifications should trigger
  - Example: I want a text every time a Refund over $500 is made
    - Order Created->BroadcastReceiver->lastOrder.getTotal()->Compare to user specifications
- Uses SQLite
  - A simple local-sql database that comes with android
- Uses JavaMail
  - Email is sent to given email address
  - Email is sent to phone number with attached gateway (which means the app can send text messages to phone numbers for specific carriers, including Verizon, AT&T, & Sprint)
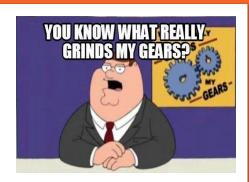
DEMONSTRATION

https://www.screencast.com/t/dg9WXqbYg3

Issues:

➔ **Email**
Email address for the app reached a "Daily user sending quota". Using a different email service could remedy this.

➔ **Asynchronous Tasks**
Since we were listening for Intents to be broadcast any code not run asynchronously interrupted the main thread of the program

➔ **Clover Conflicts**
Refund and other Clover Apps sometimes wouldn't work until the emulator was restarted. We believe this was due to an OrderConnector service leak.

➔ **Genymotion**
Updating Genymotion put us out of commision for several days testing the app

Credits

Because we don't deserve all of it

- Dr. Baliga
- Jim Strate
- Tyler Carberry
- Clover's Slack Team

In conclusion,

We believe that this should be a useful app for small business owners to help them keep track of how much money they are gaining and losing.

For the future, we hope that Notifi continues to develop and becomes a staple in small businesses.

The End