The Introduction:
While cleaning my room this past weekend, we came to a sudden realization. Over the past seven months of college, we've amassed an incredibly large collection of other people's stuff. Staring at the overflowing bucket of sweaters, water bottles, t-shirts and headbands, we began to wonder, how much of our stuff do our friends still have? Whether it be food, chargers, or clothing, college culture is undeniably defined by sharing. That's why we think it'd be incredibly useful to be able to track and record these transactions.

The App:
We introduce, lendIt. Designed to keep track of lending things, the app will connect two users to provide a recorded transaction that both users must accept. Much like Venmo, when someone completes a transaction with the person they are lending to/from, for every object lent there must be a description. This will provide a date/time stamp of when the object was lent, and also provide the "lender" the option to provide a "due date" for when they want their object back. Lenders can also have the option to send the "lendee" a request for their stuff back, that will send a notification to the lendee's phone. Once the lendee returns the item, the transaction can be marked as complete.

How it works:
Register for the app by logging in with your facebook account. Once you login, you'll be prompted to make a username, which you should remember. Then, once both individuals are on the app, transactions can be completed between them. You record who the borrower and owner are, and when you want the item to be returned. This date can be added to your google calendar, but will also be stored in a local lendit calendar. Your main feed displays all the transactions you have been a part of. Never forget to give something back again!

Other implications:
This app is designed to remove the complexity and worry behind lending things. If someone has a written and tangible record of lending someone something, they are more likely to get it back, and back on time. It places a greater responsibility on the lendee to return it on time and in good condition. Also, read her bible.

Features we will use:
- **Camera: for taking pictures of our items**
- **Firebase: for storing the transactions**
- **SQL Lite: Allows us to locally store events in the personal Calendar**
- **Google Calendars: gives the user ability to put the return date in their google calendar**
- **Facebook API for Authentication**

Activities:

- **Login Activity: Login with Facebook username and password**
- **Username Activity: makes a Lendit Username if the facebook id has not been registered before**
- **Main Activity: displays a feed of the transactions a user is involved in**
- **New Transaction: allows a user to make a new transaction**
- **Calendar: view when you have transactions to ask for/ return**

Group Tasks/ Date

Alpha:

Goals:
Design a basic UI: we worked together to do this
Recycler View and Adapter for main activity: Niall
New transaction + Camera interface: Niall
Work on facebook API: Sabrina
Get Firebase set up: Swathi and Amik

What we accomplished:

The App loads and can display a new activity when it loads. The login is buggy, and we run into issues with the shared preferences. We have a splash screen and a basic UI of how we want the app to look. We are still working through issues with Firebase and Facebook API

Beta:
Goals:
Implement the google calendar api: Niall
Add the dates to individual calendar: Niall
Allow the transactions to go to Firebase: Swathi
Pull transactions from Firebase: Swathi
Upload Images to Firebase: Amik
Fix errors in login activity: amik
Fix the bugs in the facebook login: Sabrina
Work on Username Activity and learn how to store/ access the facebook id variables: Sabrina

What we accomplished: The app now connects to firebase, but we haven't figured out how to read from firebase. We are running into a large error regarding the key/id lookup before pulling from main activity. The app is able to store new transactions and usernames in firebase, but is not able to pull from it. The camera can now take pictures. The login works, and allows someone to access the app through their login.

Final Version:
Goals:
Comment out the Code: Sabrina
Save activity state through shared Preferences: Sabrina
Work on downloading the images through firebase storage: Amik
Set the pulled data from firebase into a recycler view: Amik
Calendar Tasks: Niall

- **Add calendar view in a new activity**
- **Use SQL lite to store events**
- **Add to local calendar and to google calendar**

Minor Bug Fixes:

- **Check if user is registered within our database before allowing transaction to complete: Swathi**
- **Don't go to username activity if person already exists within our database: Swathi**
- **Fix the UI in username Activity: Sabrina**
- **Handle the exceptions for an empty transaction: Swathi**
- **Set a default image if the user doesn't want to take a picture: Swathi**
- **Fix UI: all of us**

What we accomplished: We finished!!!

https://docs.google.com/document/d/1uGHjQFfOC6-CeToE1UwQijtgMuIS9ZmMB-qkBphDt0g/edit