



# 21st Inventory

Brandon Dean, Elliot Garner, Brannon Mason



# Background (Original Task)

- Client was Network Infrastructure & Services (NI&S)
- Currently using Oracle to inventorize products
- Long, arduous, and complex
- Requested we make a mobile app used to help inventory products more efficiently
- Majority of experience in iOS

# Background (Updated Task)

- NI&S is adding Wireless Access Points (WAPs) to many buildings
- Manually make note of Mac Address, Serial Number, Inventory Number, and others
- A mobile app to scan and save all of that data automatically
- Integration with Google Drive

# Process

- Setting up a project on Google Drive  
<https://console.developers.google.com/project>
- Created developer profile and project in XCode
- A .csv is preloaded onto Google Drive that will be written to
- The file is downloaded to the mobile application to be parsed
- Users scan and then add or update the ID fields related to the inventory item
- The file's updates are uploaded back to the file on the Google Drive account

# Difficulties

- Despite choosing iOS, not all of us have a Mac to use
- Poorly Documented Google Drive API
- Difficulties communicating effectively between group members
- Actual development started a little too late



# Result

Camera

Settings



Sign in with your Google Account





Sign in

[Need help?](#)



One Google Account for everything Google





## Scanner Test would like to:

- 
-  Know who you are on Google 

---

  -  View your email address 

---

  -  View and manage the files in your Google Drive 
- 

By clicking Accept, you allow this app and Google to use your information in accordance with their respective terms of service and privacy policies. You can change this and other [Account Permissions](#) at any time.

[Back](#)

# Scan Barcode

center the barcode to be scanned and hold still



Property of the  
**InnovationSpace**  
1140 Torgersen Hall  
Virginia Tech

- VT ID
- IC Number**
- Serial Number
- MAC Address

Proceed

[Scan Barcode](#)

Enter Data

## Virginia Tech ID Number

Enter VT ID Number

MAC Address

0184078000015

C Number

000817488

Serial Number

0022000115805

Location

Warehouse

Stock Number

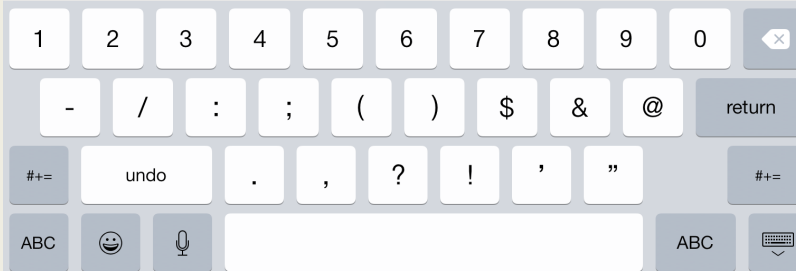
AP-224

Custodian

Elliot Garner

Room

1516

[Next](#)

[← Enter Data](#)

## Select Mounting

Wall Mounted

or

Ceiling Mounted

or

[Next](#)

[← Select Mounting](#)

## Review Your Data

Virginia Tech ID Number

MAC Address

0184078000015

C Number

000817488

Serial Number

0022000115805

CNS Number

AP-224

Location

Warehouse

Stock Number

AP-224

Custodian

Elliot Garner

Room

1516

Mounting

Wall

[Next](#)

[← Review Your Data](#)

Ready to Submit?

[Submit](#)

Finished!