

CPET 491 Senior Design Project Phase II

Android-Based Beverage Inventory Management System

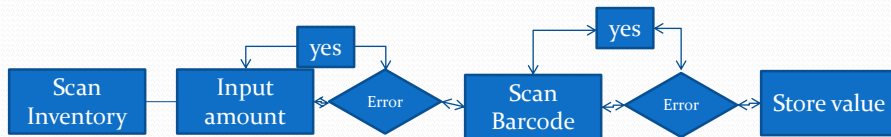
By:
Josh Crawford

Executive Summary Contents

- **Problem / Objective Statement** – Simplify and increase the inventory process
- **Top-Level Description** – Records type and level of liquor
- **Value Proposition** – cuts labor cost for managing bar inventory
- **Motivation** – I selected this project because the current system is slow and outdated
- **Deliverables** – I have deliver a prototype, a Final presentation, and a final report
- **Summary of Schedule** – this project was completed in 16 weeks
- **Summary of Cost** – I will spend \$0 on material and spend 128 labor hours

Program Flow

- **Technology:** Android Device Camera, Android OS, and App inventor from MIT
- **Requirements:** Scan a Barcode with camera and store values in a database
- **Architecture:**



Scope Contents

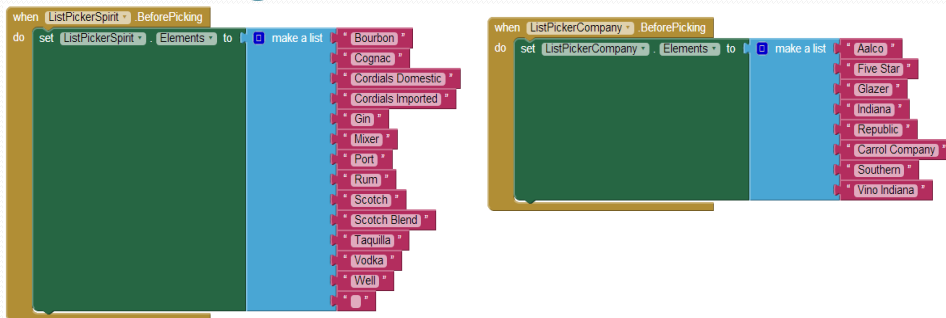


Scope Contents

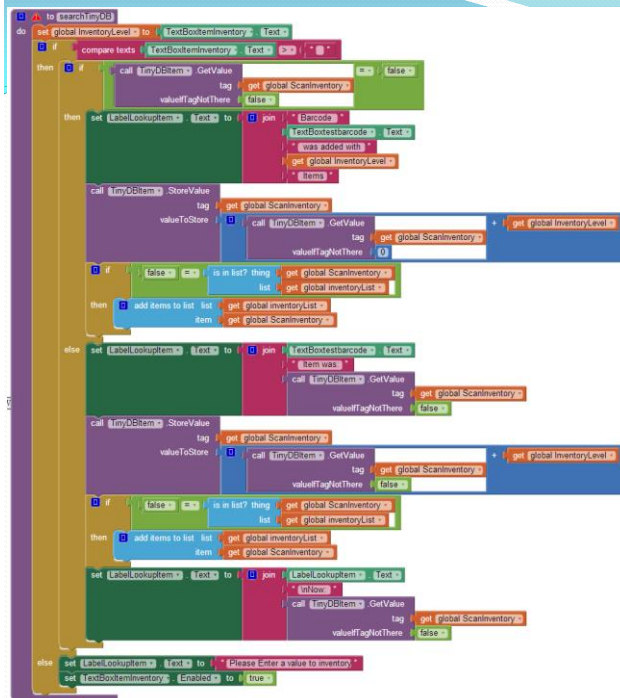
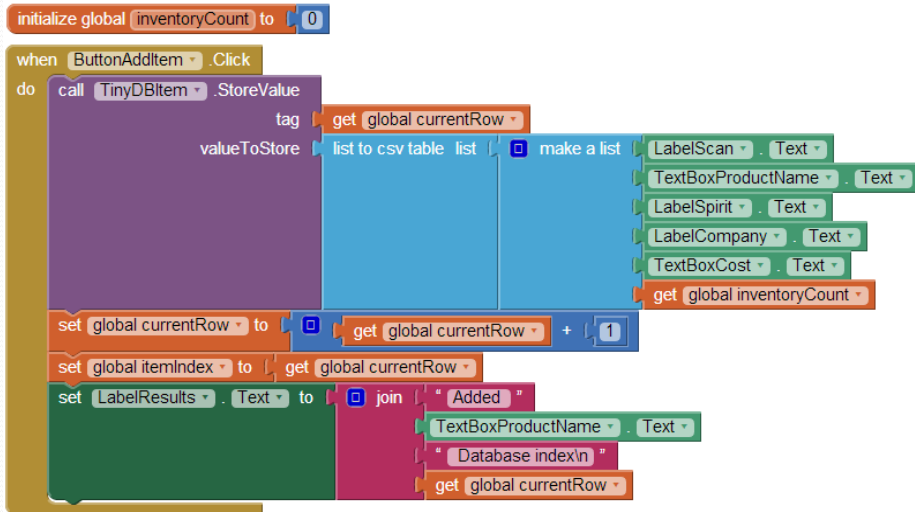
Activities: Android OS
Android Virtual Environment
App Inventory MIT



Creating list for Control

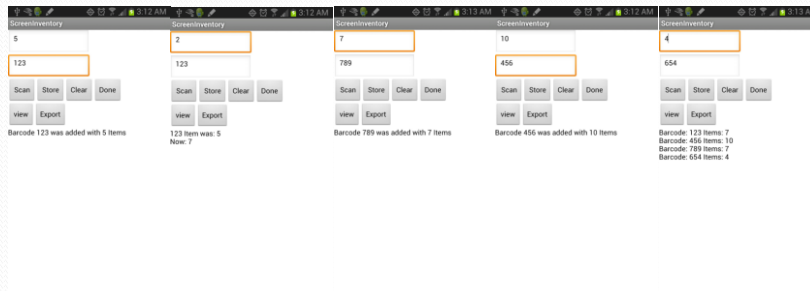


Saving Information into TinyDB

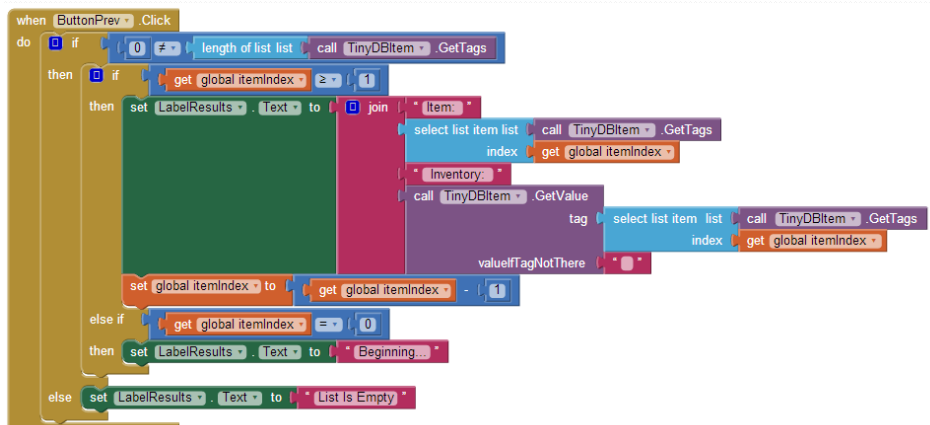


Search Inventory Layout

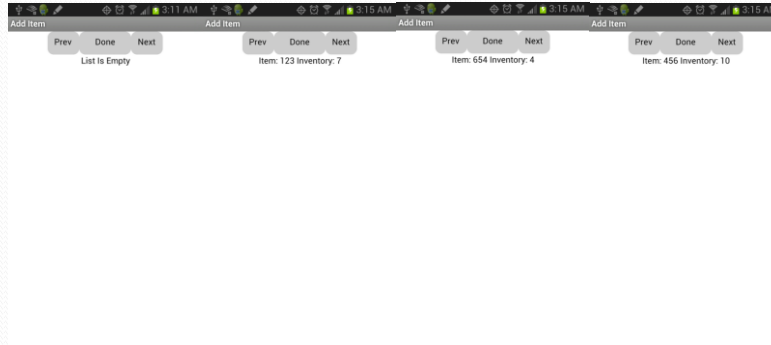
Scanning and adding inventory



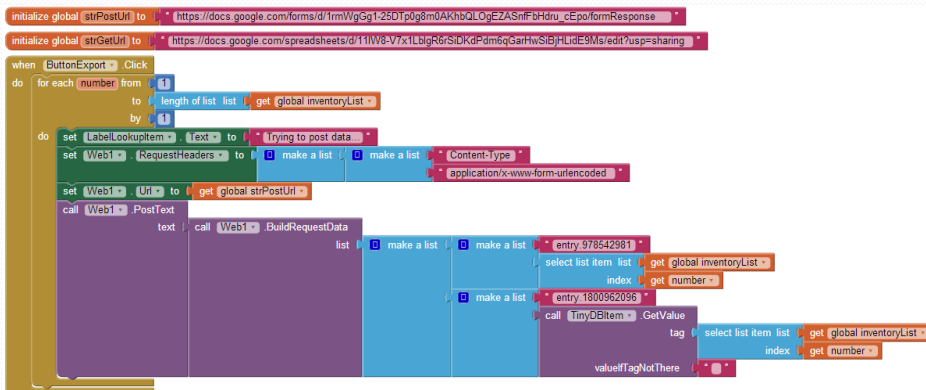
Inventory Preview



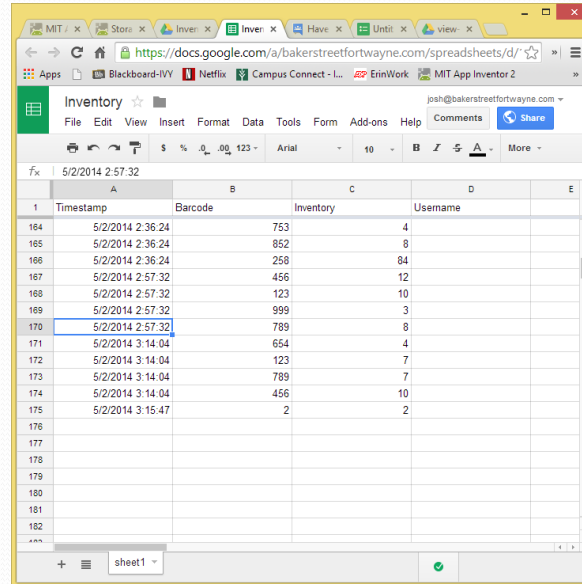
Inventory Preview



Exporting to Google Docs



The Google Doc



The screenshot shows a Google Docs spreadsheet titled "Inventory" with the following data:

	A	B	C	D	E
1	Timestamp	Barcode	Inventory	Username	
164	5/2/2014 2:36:24	753		4	
165	5/2/2014 2:36:24	852		8	
166	5/2/2014 2:36:24	258		84	
167	5/2/2014 2:57:32	456		12	
168	5/2/2014 2:57:32	123		10	
169	5/2/2014 2:57:32	999		3	
170	5/2/2014 2:57:32	789		8	
171	5/2/2014 3:14:04	654		4	
172	5/2/2014 3:14:04	123		7	
173	5/2/2014 3:14:04	789		7	
174	5/2/2014 3:14:04	456		10	
175	5/2/2014 3:15:47	2		2	
176					
177					
178					
179					
180					
181					
182					

Cost Contents

- **Materials:**
 - Computer
 - Android Device
- **Labor:**
 - I have spend 128 hours on this project



Questions?