

## INTRODUCTION

Dulaney High School

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Mobile Application Development 2016-17

## LIST OF FILES

FBLA-YardSale.apk

(Compiled Android Application)

Documentation

Documentation - Android Java.pdf (Printout of Java source code)  
Documentation - Android Layouts.pdf (Printout of XML Layout source code)  
Documentation - Android Screenshots.pdf (Screenshots of Android application)  
Documentation - Microsoft Azure.pdf (Screenshots of Azure configuration)  
Documentation - SQL Server Scripts.zip (Scripts for loading data into database)

Source

/ app / src / main (Android Studio source code)

## REQUIREMENTS

RUN TIME:

Phone Application

Android API 21 or later  
Internet Access  
Camera Access

Server Application

Microsoft Azure

BUILD:

Phone Application

Android Studio 2.2.3 or later

USB cable to connect phone to computer

or Android Emulator in Android Studio

Allow installation of non-Market applications

Debug mode when USB is connected

Server Application

Microsoft Azure

SQL Server Management Studio 17

Source Code

<https://github.com/DuxAmericius/p8n9t8Lnj2uYmMDa>

## INSTALLATION

<http://fbla-yardsaledownload.azurewebsites.net>

Precompiled Installation

1. Go to <http://fbla-yardsaledownload.azurewebsites.net> on phone
2. Follow instructions

Compile Installation

1. Run Android Studio
2. Open FBLA YardSale Project
3. Change Android phone settings
  - a. Verify Internet connection
  - b. Allow installation of non-Market applications
  - c. Enable debug mode when USB is connected
4. Connect Android phone to computer through USB cable
5. Press SHIFT + F10 in Android Studio
6. Press ENTER when the pop-up window for running on phone is displayed
7. Application will automatically start on phone

## TESTING

How to Register New User:

1. Press "Create account"
2. Follow instructions for creating a Microsoft account

How to Log In:

1. Type in email
2. Press "Next"
3. Type in password
4. Press "Sign In"

How to Switch Between Pages:

1. Click on desired page's icon on the top row
2. OR swipe left or right to desired page

How to Edit Account Info:

1. Go to Home page
2. Press "Account"
3. Type in Name
4. Type in zipcode, then press Search
5. OR Select state and type in city name, then press Search
6. Select school if available
7. Choose either a 5 mile or 10 mile radius from school selected
8. Click "Save" to save data and close activity
9. OR click "Cancel" to not save data and close activity

*IMPORTANT* SCHOOLS SHOWN IN LOCAL SALES AND ON THE MAP  
ARE WITHIN THE RADIUS FROM SELECTED SCHOOL

How to Add Sales:

1. Go to Home page
2. Press "Add Sales"
3. Enter required information (Item Name and Item Price)
4. Enter optional information (Item Description and Picture from Camera or Gallery)
5. Press "Finish" to upload item and close activity
6. OR press "Add Another" to upload item and restart activity
7. OR press "Cancel" to not upload item and close activity

How to View Your Sales:

1. Go to Home page
2. Press "My Sales"

How to Delete Your Sales (Continued from above):

3. Press the red "X" on the item you want to delete
4. Press "Confirm" to delete item
5. OR press "Cancel to not delete item"

How to Comment:

1. Find item you want to comment on
2. Press "Comment"
3. Type desired comment in the text box provided at the bottom of the screen
4. Press "Post"

How to Delete Comment:

1. Find desired comment
2. Press the red "X" on the comment you want to delete
3. Press "Confirm" to delete comment
4. OR press "Cancel" to not delete comment

How to View Number of Sales for a School:

1. Go to Map page
2. Press desired school's icon

How to Exit:

1. Go to Home page
2. Press "Close App"

## REFERENCES

Source Code:

<https://github.com/DuxAmericius/p8n9t8Lnj2uYmMDa>

Microsoft Azure Portal:

<https://portal.azure.com/>

Android Developers Documentation:

<https://developer.android.com/index.html>

Microsoft Azure - Create an Android app:

<https://docs.microsoft.com/en-us/azure/app-service-mobile/app-service-mobile-android-get-started>

Google API Key for using Maps:

<https://console.developers.google.com/apis/credentials?project=fbla-yardsale>

Microsoft Application for Microsoft Login access:

<https://apps.dev.microsoft.com/#/application/6e9f8417-81b1-4052-87fe-3e2d857f3a68>

Database of USA Zip Codes:

<http://federalgovernmentzipcodes.us>

Database of all USA Public Schools:

<https://nces.ed.gov/ccd/pubschuniv.asp>

Database of all USA Private Schools:

<https://nces.ed.gov/surveys/pss/pssdata.asp>

Algorithm for calculating distance between schools:

<http://daynebatten.com/2015/09/latitude-longitude-distance-sql/>

Documentation for using Google Maps:

<https://developers.google.com/maps/documentation/android-api/start>

Documentation for using Microsoft Azure for querying the database:

<https://github.com/Azure/azure-content-nlnl/blob/master/articles/mobile-services/mobile-services-android-how-to-use-client-library.md>

Documentation for using Microsoft Azure Storage on Android:

<https://github.com/azure/azure-storage-android>

## **COPYRIGHT NOTATIONS**

<http://fbla-pbl.org/pbl/communications/image-library>