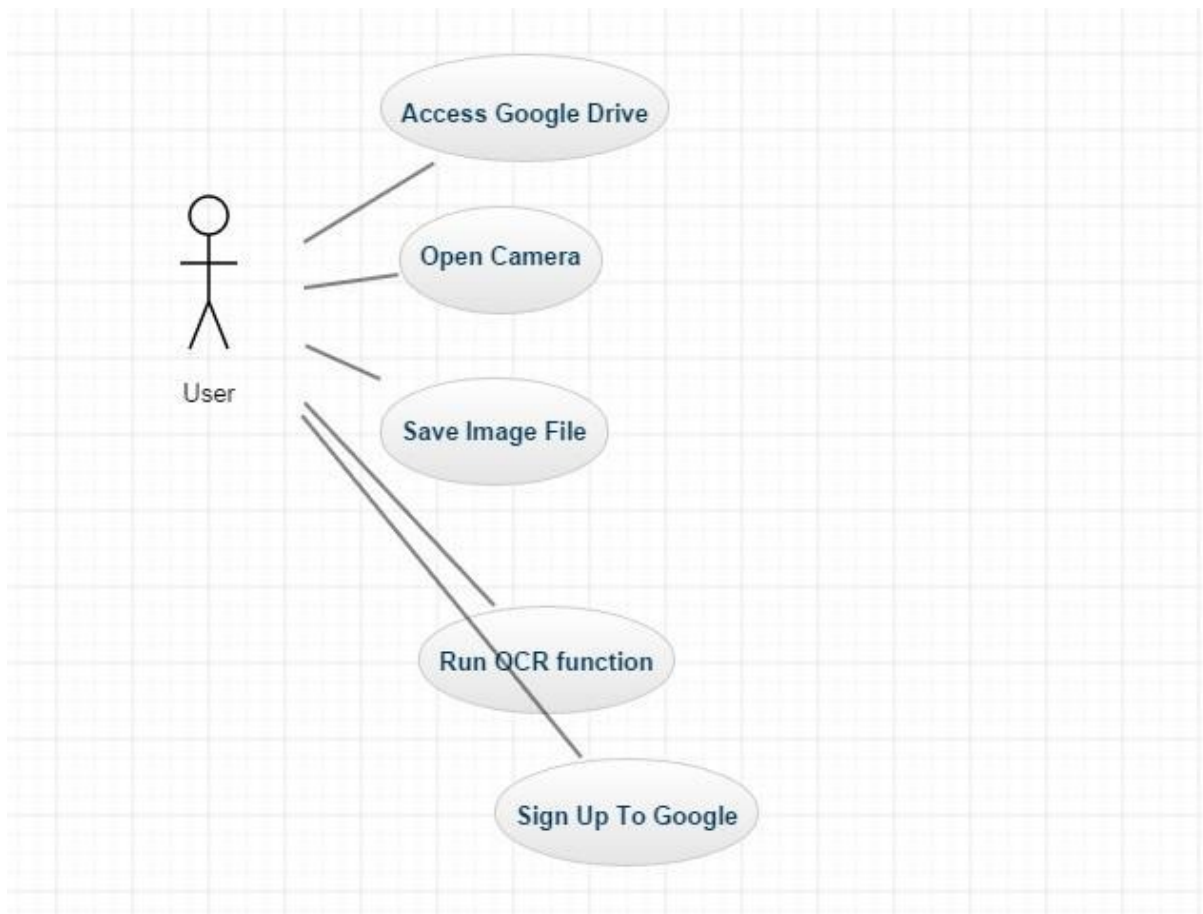1. Use Cases



1.1 Title (goal)

Access Google Drive

1.2 Primary Actor

User

1.3 Scope

1.4 Level

1.5 (Story)

User will open the App

Then Login through google

The user will then choose to Open a photo

Choose option "From Google Drive"

1.1 Title (goal)

Open Camera

1.2 Primary Actor

User

1.3 Scope

1.4 Level

1.5 (Story)

User will open the app

User will then login through Google

User will choose to take photo of text for scanning

1.1 Title (goal)

Save Image File

1.2 Primary Actor

User

1.3 Scope

1.4 Level

1.5 (Story)

User will open the App

Then Login through google

User will choose to take photo of text for scanning

The user will take a photo

Photo will save to Gallery

User can then choose to export to google drive

1.1 Title (goal)

Run OCR Function

1.2 Primary Actor

User

1.3 Scope

1.4 Level

1.5 (Story)

User will open the App

Then Login through google

User will choose to take photo of text for scanning

The user will take a photo

Photo will save to Gallery

User can then choose to export to google drive

1.1 Title (goal)

Sign Up To Google

1.2 Primary Actor

User

1.3 Scope

1.4 Level

1.5 (Story)

When the user opens the app the login screen appears

IF the user does not have a google ID

he can choose to sign up, which will redirect to the google sign up page

## 2. Technical Architecture

### 2.1 Software components:

This app is set to run on Android. I believe there is software that will allow me to translate the code to work on any device – however as this is my first mobile application I will worry about many devices. I will be using Android Studio or Appstudio to develop the code and Google drive will be where I store what I need so there will be no database.

### 2.2 Platform libraries:

The main library I plan to use Is tesserect – This is the OCR library in googles library repository, so to me is one of the more trusted libraries.

I will be using Java mainly – JSON in particular, according to my studies is very prominent in Android development.

### 2.3 Distribution and Deployment

I will be using google drive to save input and output where required and Google accounts to log in to the database so I will be using Cloud services.

As I'm using Google accounts as 'users' either an account will exist or won't so the authentication will be on that end.

### 2.4 Risks

This is my first mobile development project – I have never studied programming for Android and will be learning anything I need to from books or websites. Therefore I may find it difficult to grasp some aspects as quick as I need them and will then be detrimental to my delivery. While this is the case I do feel that it is important to try this to see how it fits me and to adjust as it were to what may be required of me in Industry outside of my comfort zone i.e what I know.

## 3. Prototype

### 3.1 Week 8 Deliverables:

First prototype should include the Google account log in and the ability to open and close the camera.

3.2 Week 11 Deliverables:

Second prototype should include ability to save images to Google drive, load images to google drive and to parse those images through the tesserect library to receive appropriate output.