**Automated Document Verification System**

**Setup Instructions**

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**1. Server Side Installation**

**1.1 Minimum System Requirements**

**Hardware**

* RAM - 4GB DDR3
* Processor - Intel based
* Active Internet Connection

**Software**

* OS - Ubuntu 14.04 *or higher*
* Python v2.7

**Prerequisites**

1. Server should have Apache Installed, along with working config of PHP
2. The Python and the PHP files should be kept in the same directory.

**1.2 Steps to Setup environment**

1. Update **Ubuntu**:

sudo apt-get update

1. Install **PIP** for installing python packages:

sudo apt-get install python-pip

1. Install **Tesseract-OCR**:

sudo apt-get install tesseract-ocr

1. Install **Tesseract-OCR languages**:

sudo apt-get install tesseract-ocr-hin

1. Install **Python Imaging Library**:

sudo pip install pillow

1. Install **MySQL**:

sudo apt-get install python-dev libmysqlclient-dev

sudo pip install MySQL-python

**2. Running Android App**

**1.1 Minimum System Requirements**

**Hardware**

* RAM - 2GB
* Processor - Snapdragon based
* Active Internet Connection

**Software**

* OS - Android Lollipop 5.0 *or higher*

**1.2 Steps**

1. Install the APK file, "ADVSF.apk", on the Android phone.
2. *Before*running the application, go to Settings > Apps > ADVSF > Permissions, and turn on "Storage" permission.
3. Active internet connection is required
4. Run the application.

**3. Android SDK Environment Setup**

**1.1 Minimum System Requirements**

**Hardware**

* RAM - 4GB DDR3
* Processor - Intel based
* Active Internet Connection

**Software**

* OS - Windows 10

**1.2 Steps**

1. Add the dependencies in build.gradle (module:app)

compile **'com.google.android.gms:play-services:7.8+'**

compile **'com.android.volley:volley:1.0.'**

1. Add the required permission to Manifest

<**uses-permission android:name="android.permission.READ\_EXTERNAL\_STORAGE"** />

<**uses-permission android:name="android.permission.INTERNET"** />

**4. Troubleshooting**

**SERVER:**

* **Unable to install PIP**

Alternatively, enter these set of commands in your terminal:

1. sudo apt-get install python-setuptools python-dev build-essential
2. sudo easy\_install pip
3. sudo pip install --upgrade virtualenv

**APPLICATION:**

* **Image preview is unavailable**

Go to Settings > Apps > ADVSF > Permissions, and turn on "Storage" permission.

* **Pop-up shows "Some Error".**

Its a result of loss of an Active Internet Connection. Make sure you are connected to the internet, and try again.

* **Unexpected Result, shows Traceback ….… has no attribute '\_\_getitem\_\_'**

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