

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
```

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

```
sudo apt-get install python-pip
```

3. Install **Tesseract-OCR**:

```
sudo apt-get install tesseract-ocr
```

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

```
sudo apt-get install tesseract-ocr-hin
```

5. Install **Python Imaging Library**:

```
sudo pip install pillow
```

6. 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.'
```

2. 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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