Installation Procedure for Ubuntu Linux

- 1. Install Ubuntu server preferably version 20.04
- 2. Update the system: #apt-get update
- 3. Install nodeJS: #apt-get install nodejs
- 4. Install the latest mongodb:

(reference: https://docs.mongodb.com/manual/tutorial/install-mongodb-on-ubuntu/)

- a. #apt-get install gnupg
- b. #wget -qO https://www.mongodb.org/static/pgp/server-4.4.asc | sudo aptkey add –
- c. #echo "deb [arch=amd64,arm64] https://repo.mongodb.org/apt/ubuntu focal/mongodb-org/4.4 multiverse" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
- d. #apt-get update
- e. #apt-get install -y mongodb-org
- f. #systemctl start mongod
- g. To verify status of mongodb: #systemctl status mongod
- h. configure mongodb to start on reboot: #systemctl enable mongod
- 5. Install libreoffice: #apt-get install libreoffice
- 6. Install PDF Tollkit: #apt-get install pdftk
- 7. Install Poppler Utilities: #apt-get install poppler-utils
- 8. Install Tesseract OCR: #apt-get install tesseract-ocr
- 9. Install Ghost Script: #apt-get install ghostscript
- 10. Create default "drive" folder and its required subdirectories (case sensitive):
 - a. #mkdir/drive
 - b. #mkdir/drive/Archive
 - c. #mkdir /drive/incoming
 - d. #mkdir /drive/Recoverhere
 - e. #mkdir "/drive/Routing Slip" (put double quote for 2 words)
 - f. #mkdir/drive/textML
- 11. Create folder for the e-Dokyumento: #mkdir /edokyu
- 12. Download the latest e-Dokyumento from the GitHub:

#git clone https://github.com/nelsonmaligro/e-Dokyumento /edokyu/

13. Import the default collections for the "docMS" database:

- a. #mongoimport --host="localhost" --db=docMS --collection=useraccs --drop -file=/edokyu/models/useraccs.json
- b. #mongoimport --host="localhost" --db=docMS --collection=activitylogs --drop -- file=/edokyu/models/activitylogs.json
- c. #mongoimport --host="localhost" --db=docMS --collection=branches --drop -- file=/edokyu/models/branches.json
- d. #mongoimport --host="localhost" --db=docMS --collection=classes --drop -- file=/edokyu/models/classes.json
- e. #mongoimport --host="localhost" --db=docMS --collection=commologs --drop -- file=/edokyu/models/commologs.json
- f. #mongoimport --host="localhost" --db=docMS --collection=monitoraccs --drop -- file=/edokyu/models/monitoraccs.json
- g. #mongoimport --host="localhost" --db=docMS --collection=pndocs --drop -- file=/edokyu/models/pndocs.json
- h. #mongoimport --host="localhost" --db=docMS --collection=settings --drop -- file=/edokyu/models/settings.json
- i. #mongoimport --host="localhost" --db=docMS --collection=tags --drop -file=/edokyu/models/tags.json
- j. #mongoimport --host="localhost" --db=docMS --collection=tempmonitoraccs --drop -- file=/edokyu/models/tempmonitoraccs.json
- 14. Start the e-Dokyumento Application:
 - a. #cd/edokyu
 - b. #node index.js
- 15.Congratulations! You can now browse the e-dokyumento at : <a href="https://<ip">https://<ip address>

Post Installation Procedure

- 1. To make the e-Dokyumento run automatically during reboot:
 - a. Install the NPM package manager: #apt-get install npm
 - b. Install forever module: #npm install forever -g
 - c. Install nodemon module: #npm install nodemon
 - d. Edit crontab: #crontab -e
 - e. Add the following 2 lines:

@reboot cd /edokyu && /usr/local/bin/forever -c "/usr/local/bin/nodemon -- exitcrash" index.js > /dev/null 2>&1

@reboot cd /edokyu/controllers && /usr/local/bin/forever -c "/usr/local/bin/nodemon --exitcrash" folderwatch.js > /dev/null 2>&1

- f. Save and reboot
- 2. In order to enable and use the Intelligent Document Classification through the Machine Learning, we need to install the required python libraries.
 - a. Ensure Python version 3 is installed: **#python --version**
 - b. If not, Install Python3: #apt-get install python3

c.

- d. Make Python3 as the default alias for python: #apt-get install python-is-python3
- e. Install Python package manager to use pip command: #apt-get install python3-pip
- f. Install Tensorflow: #pip3 install tensorflow
- g. Install Pandas: #pip3 install pandas
- h. Install Keras core: #pip3 install keras
- i. Install Keras Model: #pip3 install keras-models
- j. Browse the e-Dokyumento using the browser and login as Administrator account
- k. Click "Advanced", "Settings" and check the "Enable Machine Learning", then click save.

3.