Deployment Instructions

Server Deployment:

1. Server Requirements:

a. NodeJS: Latest LTS Versionb. MongoDB: Latest Version

c. PM2 installation: To handle node processesd. NGINX installation: To serve client side files

e. Unzip tool: Extract zip file in linux

f. Python2.7: To read all uploaded files

2. Server Production Deployment:

- a. Login to server using SFTP/FTP client with SSH access (Putty, WinSCP, Filezilla)
- b. Create zip file of all server files mentioned in project structure in server-documentations and **SAVREADER** Directory.
- c. Upload both the zip files to the server
- d. Open SSH terminal of server, follow instructions:
 - i. Sudo mkdir /app (create a project folder)
 - ii. Sudo mv /home/<Homefolder>/server.zip /app/ (Copy uploaded server.zip to project directory)
 - iii. **Sudo mv /home/<homefolder>/savreader.zip /app** (Copy uploaded savreader zip to project directory)
 - iv. **Sudo unzip savreader.zip /app** (Extract zip to project directory)
 - v. Cd savreader (traverse to savreader folder)
 - vi. Run pip install requirements.txt (Install python dependencies)
 - vii. **Sudo unzip server.zip /app/server** (Extract zip file to project directory/server folder)
 - viii. **Cd server** (get inside server directory)
 - ix. Run **NPM INSTALL** (To install required modules)
 - x. **Pm2 start main.js** (Run main.js file using PM2)

3. Server Development Deployment:

- a. Extract server.zip to local directory
- b. Open cmd or terminal in server directory
- c. Run npm install in cmd or terminal
- d. Npm start in cmd or terminal

Client Deployment:

1. Client Production Deployment:

- a. Open command line in client folder, follow below commands to build a production copy:
 - i. Npm install (Install required modules)
 - ii. Npm build (Build production dist copy)
- b. A DIST folder will be created in client structure, archive the dist folder in a zip file and upload to the server.
- c. After uploading zip file, follow below instructions:
 - i. Mv /home/<userfolder>/dist.zip /app/ (Copy client zip to project directory)
 - ii. Unzip /app/dist.zip /app (Extract client zip file to project directory)
 - iii. Add /app/dist/ path to NGINX

2. **Development Deployment:**

- a. Extract client zip to local path
- b. Open terminal in client folder
- c. Run npm install command to install all modules
- d. Run npm start to start the client in development

Note:

- Server requires SWAP size of minimum 1 GB to run python script of reading large files
- The NGINX requires proxy URL to be added inside its configuration: localhost/server/

Refer below links of installing dependencies if stuck:

- https://www.digitalocean.com/community/tutorials/how-to-use-pm2-to-setup-a-node-js-production-environment-on-an-ubuntu-vps
- https://www.digitalocean.com/community/tutorials/how-to-add-swap-space-on-ubuntu-16-04