Technical set-up guide

Stock Recommender System is packaged as docker images to ensure that the all its component can run on any machine, independent of OS e.g. Windows or Linux and without any need for special configuration and additional software dependencies.

Listed below are the only two pre-requisites in order to set-up and run Stock Recommender System on your local machine.

1. Access to internet
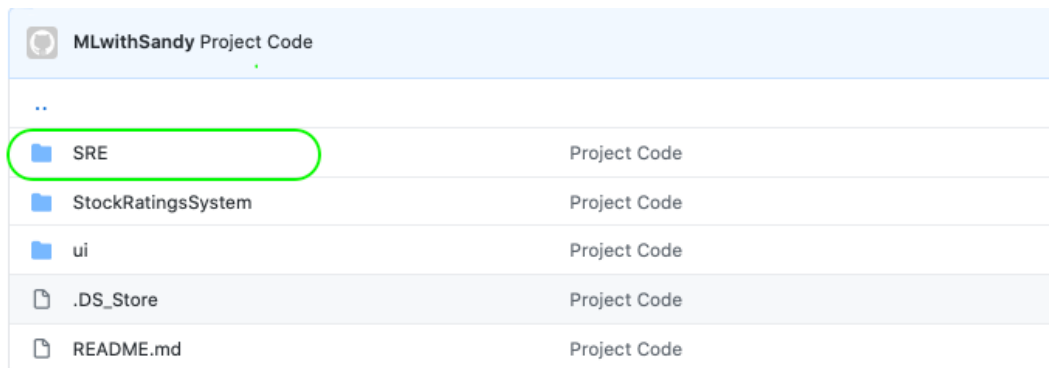2. Docker CLI or Docker Desktop installed on the local machine

   In case, you do not have Docker CLI or Docker Desktop installed on your local machine, you may install Docker Desktop from docker website:

   https://www.docker.com/products/docker-desktop

Once above listed pre-requisites are fulfilled, you can proceed with following five steps in same sequence.

Step 1: Download relevant scripts from project github

Please download either the complete project or only the SRE directory from the GitHub repo:
https://github.com/MLwithSandy/CourseProject/tree/main/ProjectCode

SRE folder consists of following files / scripts, which are relevant to set-up and run the Stock Recommendation System:

You may follow readme.md at GitHub repo additional details.

https://github.com/MLwithSandy/CourseProject/tree/main/ProjectCode/SRE/readme.md
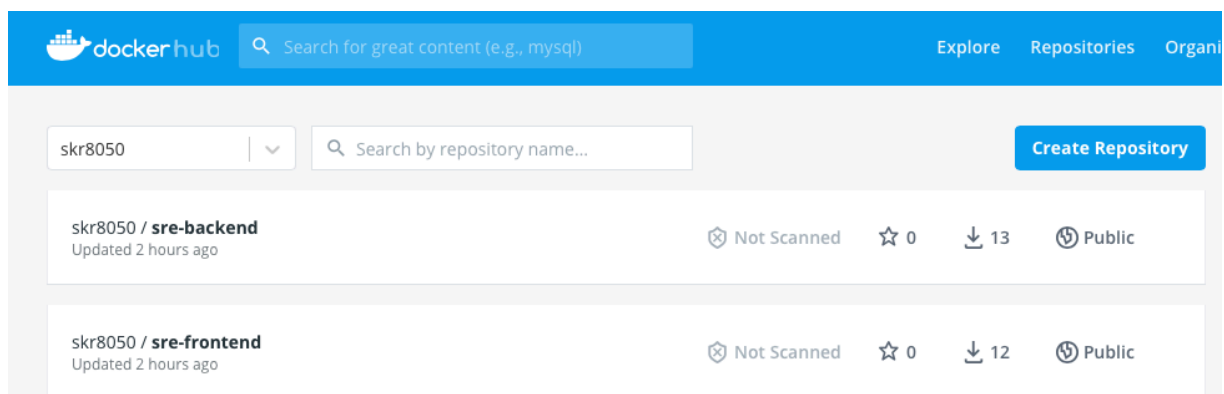
Step 2: Run start script

Depending on your operating system, please run start script in SRE directory as mentioned below:

Windows: run `start.bat` in command prompt

Mac OS, Linux: run `start.sh` in terminal

The start script downloads docker images for Frontend and Backend components of Stock Recommender System from Docker Hub.

Docker images are published by Stock Recommender System project team as a public repository.

Size of docker images:

    sre-backend: 700 MB (approx.)

    sre-frontend: 18 MB (approx.)

Depending on the speed of internet, it may take a while to download the two images. Once the two images are downloaded, the start script will run the docker images as docker container on your local machine.

Step 3: Access the Stock Recommender System UI

To access the recommender system UI, please open following link in your internet browser, preferable Chrome or Firefox.

http://localhost:8080/home

For details of the UI, please refer to User Guide.

Step 4: Access the Stock Recommender System Rest APIs

This is an optional step and required only when you are interested in using the Rest services.

Please follow below link to access the list of Rest APIs exposed from sre backend.

http://localhost:5000/

Step 5: Stop the Stock Recommender System components

In order to stop the backend and frontend components of Stock Recommender System, please run stop script in SRE directory, corresponding to your operating system.