Project Structure

Date	15 October 2022
Team ID	PNT2022TMID07719
Project Name	A Novel Method for Handwritten Digit Recognition System

In our project, we are using React as well as Flask. So, we have maintained React as a separate project and Flask App as a separate project, each having its own Structure.
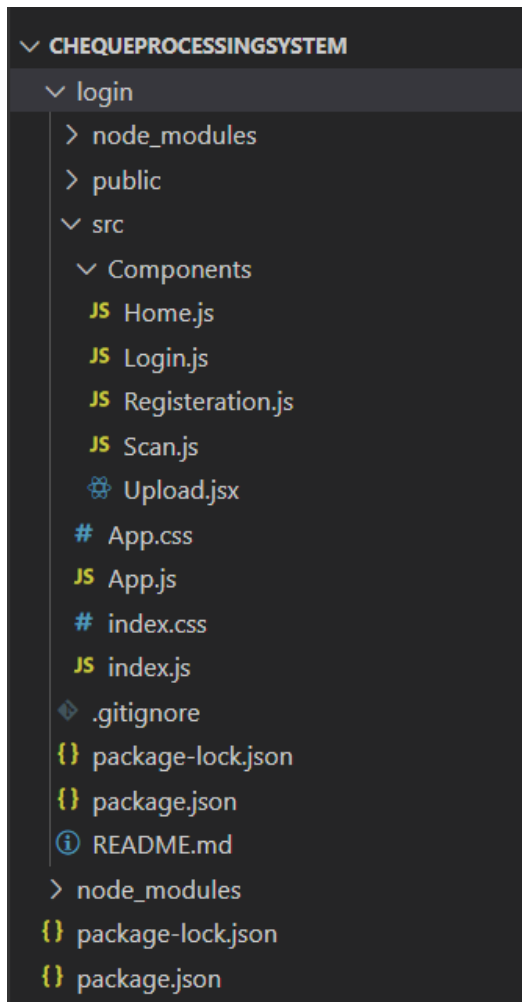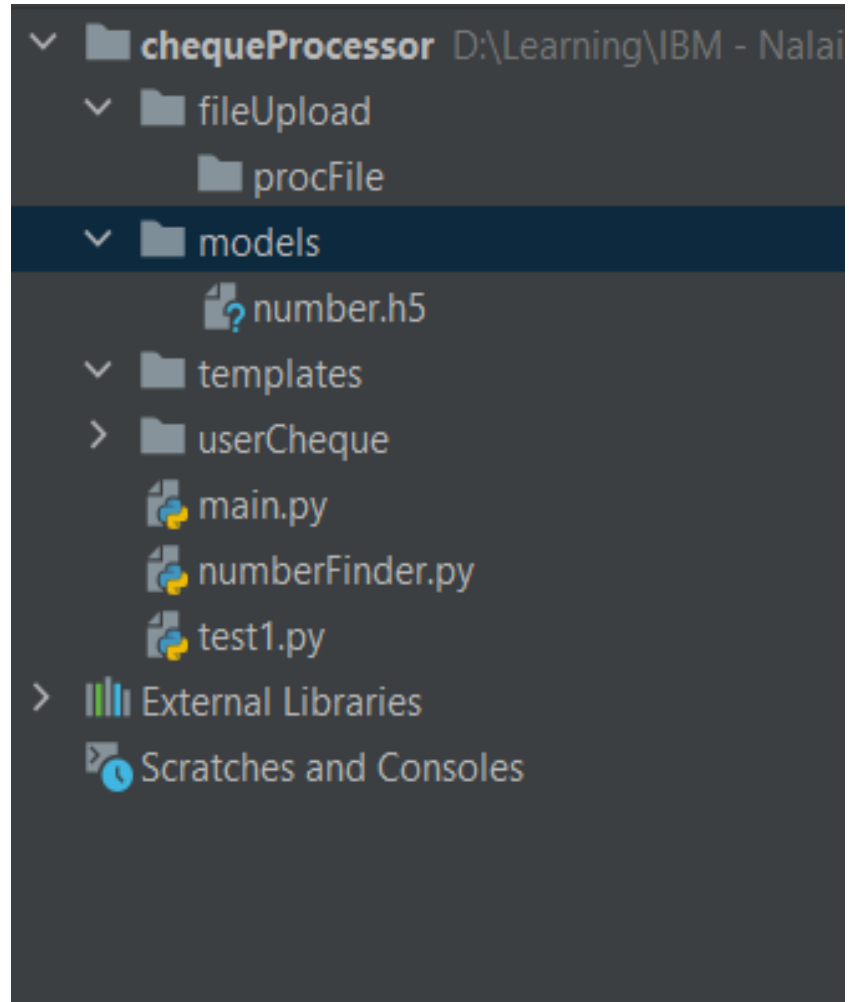

Fig 1: React Project Structure

Fig 2: Flask Project Structure

React Project:

React project consists of: (Fig 1)

1) **Node Modules** – Contains all the packages which were imported
2) **Public** – Contains *index.html* file
3) **Components** – Contains all the functional components required for this project
   a) **Home.js** – The Dashboard
   b) **Login.js** – Login page
   c) **Registeration.js** – Registration page
   d) **Scan.js** – File Upload Page
   e) **Upload.jsx** – Cheque Details saving page

Flask Project:

The Flask Project consists of: (Fig 2)

1) **fileUpload** – Contains all the files that are uploaded from the frontend
   a) **procFile** – Contains all the preprocessed files that were uploaded
2) **models** – Contains the .h5 model for recognizing numbers
   a) **number.h5** – The trained model which recognizes the digits
3) **UserCheque** – Folder that contains sample cheques for recognition
4) **main.py** – This python file contains all the flask app routes with handlers
5) **numberFinder.py** – Contains all the necessary utility functions to recognize digits from the cheque image
6) **test1.py** – Contains all the functions to pre-process the uploaded cheque image.