## **Modern Application Development - II**

# **Project Report:**

This project uses

- 1. vue2.js frontend
- 2. python-flask backend
- 3. Sqlite database
- 4. Redis for caching
- 5. Celery for batch jobs

## This project has the following functionality

- It is a multi-user app
- Used for uploading blogs with images
- User can post multiple times
- Each post will has ID, Caption/Description, ImageURL, Timestamp
- A user can follow other users using the app
- Each user will has id, username, Password, followers, posts
- User Signup and Login
- User's Profile
- Create a new blog
- Ability to follow others
- Ability to unfollow others
- User Triggered Async Job Export as CSV
- an export CSV format for blogs
- Have a dashboard where the user can export
- Trigger a batch job, send an alert once done
- caching where required to increase the performance
- cache expirv
- API Performance
- Well designed PDF reports (User can choose between HTML and PDF reports)
- Single Responsive UI for both Mobile and Desktop
- Unified UI that works across devices

#### To start backend server:

## Navigate to MAD2 folder in the terminal then use these commands

- 1. \$python -m venv .env
- 2. \$ source .env/bin/activate
- 3. \$ pip install -r requirements
- 4. \$ cd Application/Backend
- 5. \$ python3 appnew.py

## To start Frontend server:

- 1. Navigate to MAD2 folder in the terminal then use these commands
- 2. \$ cd Application/Backend/Frontend
- 3. \$ npm install
- 4. Compiles and hot-reloads for development: \$ npm run serve
- 5. Compiles and minifies for production: \$ npm run build
- 6. Lints and fixes files: \$ npm run lint

# The structure of the application is as follows:

