Capstone Project

In this project, we need you to build an application for an end user to view data on a real time basis. The end user is expecting you to summarize the data in the backend and show a list of charts and tables on the frontend.

Please find the requirements below:

1. Data - Each candidate is expected to choose a unique dataset from this link. Once a candidate chooses a dataset, he should communicate the same to others in Google Spaces to avoid duplicacy.
2. Analysis - Each candidate is expected to analyze the data first and apply these rules to summarize and generate charts/tables. (Link1, Link2, Link3, Link4)
3. Data Dump - Use python pandas to dump the data from the csv/excel file to sqlite database to serve the data to the frontend using the command below. (Link1 , Link2)
4. REST API - Create REST API endpoints using python flask framework. This should also include authentication using JWT. All the other endpoints should be secured with a token.
5. Angular Application - Create an angular application with a login page and a landing page.
    a. Only on successful login, users should be redirected to the landing page. Otherwise an error message has to be displayed saying that the credentials are wrong.
    b. Landing page should contain the data summary and data analysis in terms of charts and tables.
    c. Users should be able to logout of the application by clicking on the logout button.
    d. E-charts library should be used for displaying charts. (Link)
    e. Material UI should be used to display the UI components. (Link)
    f. References for UI dashboard are provided here.(Link1, Link2, Link3, LInk4)

Exercises

1. Create a new folder named **assignment5**. Create a README file to list the instructions to set up the angular project.

2. Create an angular application to complete the assignment along with the backend.