Assignment #5 Part 3

Atef Bader, PhD

Overview:

In this Assignment you will use Anaconda/Python (3.6, 3.7, or 3.8)) on your development computer and reuse/update the provided ipynb scripts on your computer.

Submission:

Submit your assignment as a SINGLE ZIP file online by the due date. Your submitted ZIP file must have the name:

Assignment_5_Part_3_Your_LastName.zip

Deliverables:

Your ZIP file for the Assignment submission must include the following:

- The updated IPYNB script that has all source code that you wrote, installed, compiled, and built on your personal development computer.
- Panopto video recording (MP4 file) of a live run (5 to 10 minutes) of your code on your personal development computer.

Requirements Specification:

Reuse and update the work that you have completed in **Assignment_5_Part_2**, and the requirements specification document for **BugHub**, to complete the requirements listed below. Update the provided IPYNB script, **Assignment_5_Part_3**, with your code and output.

- Update the BugHub Graph Data Model (use Netowkrx Package) to attach/add to <u>every</u> Repo node a new node called Gauge Metrics that has the following metrics:
 - Total number of issues created every year.
 - Total number of issues created every month.
 - Total number of issues created every DAY of the Week (total on Mondays, Tuesdays, etc.)
 - Total number of questions created every year.
 - Total number of questions created every month.
 - Total number of questions created every DAY of the Week (total on Mondays, Tuesdays, etc.)
 - Total number of forks created every year.
 - Total number of forks created every month.
 - Total number of forks created every DAY of the Week (total on Mondays, Tuesdays, etc.)
 - Total number of pulls created every year.
 - Total number of pulls created every month.
 - Total number of pulls created every DAY of the Week (total on Mondays, Tuesdays, etc.)
 - Etc
- 2. Your **BugHub** Graph Data Model must have ALL attributes for GitHub and StackOverflow, including but not limited to the following list:
 - git
 - GitHub
 - StackOverflow
 - Repository
 - Project
 - Wiki
 - Pulse
 - Graph
 - Code
 - Issue
 - commit
 - branchclone
 - remote
 - fork
 - pull
 - log
 - merge
 - push
 - status
 - Tag
 - Release
 - histroy
 - File
 - General Comment
 - Line Comment
 - Review

- User Account
- Organization Account
- README.md
- CONTRIBUTING.md
- ISSUE_TEMPLATE.md
- System Configuration
- Global Configuration
- Local Configuration
- Question
- Answer
- Etc.
- 3. Show your **BugHub** Knowledge Graph for the **year 2022** for the following repositories:
 - 1.https://github.com/angular/material
 - 2. https://github.com/angular/angular-cli
 - 3. https://github.com/d3/d3
- 4. Show your **BugHub** Knowledge Graph for the month of **March** for **year 2022** for the following repositories:
 - 1.https://github.com/angular/material
 - 2. https://github.com/angular/angular-cli
 - 3. https://github.com/d3/d3
 - 4. https://github.com/facebook/react
 - 5. https://github.com/tensorflow/tensorflow
 - 6. https://github.com/pallets/flask
- 5. Show your **BugHub** Knowledge Graphs for **EVERY Monday** for the month of **March** for **year 2022** (One Graph for Every Monday) for the following repositories:
 - 1. https://github.com/angular/material
 - 2. https://github.com/angular/angular-cli
 - 3. https://aithub.com/d3/d3
 - 4. https://aithub.com/facebook/react
 - 5. https://github.com/tensorflow/tensorflow
 - 6. https://aithub.com/pallets/flask