CPSC 449 Project 4 README FILE

Project4: NoSQL

Group: 12

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Initializing, setting up the environment and running the microservices.

1. Download the project zip file.
2. Run the below commands on terminal.

**cd Downloads/CPSC449\_Project4**

1. To initial redis , run the redisdata.py file : This file will load the json data in redis NoSQL and will set the data. Assuming that Redis is already installed. MaterializingView.py file will pull the data from sharded databases and dump in Redis.

**python3 redisdata.py**

**python3 .MaterializingView.py**

1. To test the microservices we are using FastAPI Swagger.

Run the bellow command to run the Procfile: **foreman start**

Copy and paste the respective URL’s from terminal to browser and append /docs in the URLs to open FastAPI Swagger for first two microservices.(api4 and api5)

**This will run the api4 and api5 file**

**api4 file have the: Implementing a Service to Track State**

**api5 file implementation of: Pulling Leaderboards from Redis**

5. Cronjobs: Run the following commands

**crontab -e** and paste the following command:

**\*/2 \* \* \* \* /home/student/Downloads/project4/MaterializingView.py**

The output can be viewed using the following command:

s**ystemctl status cron.service**

The output is stored in “./cronlog”

Data Model for NoSql

We have used Dictionary of Dictionary:

Structure

**Userid**: {**name**: “username” , **games** : { **gamid** : {**1**: ‘ ’ , **2**:‘ ’ , **3**: ‘ ‘, **4** : ’ ’, **5** : ‘ ’, **6** : ‘ ’, **Remaining**:6 }}}