Java Assignment

Problem statement

Develop a program in Java(urldatabase) that can be run in the command line as per given requirements below.

Requirements

1. To start the program: run *java urldatabase.* Further, the program will wait for the user to enter the following commands.
2. The command ***storeurl*** shall take a URL as a parameter and save that into a table with a unique short key and a count(usage count) initialized to 0.
   1. Use local variables instead of a database to store the data.
   2. Use any appropriate logic to generate the unique short key.
3. The command ***get*** shall take a URL as a parameter and return the unique short key after incrementing the usage count.
4. The command ***count*** shall take a URL as a parameter and should return the latest usage count.
5. The command ***list*** should return all urls and counts. The return value is in JSON.
6. The command ***exit*** should terminate the program

Example Commands usage

1. To start the program: run *java urldatabase.*
2. *Commands:*
   1. *storeurl* [*google.com*](http://google.com/)
   2. *get* [*google.com*](http://google.com/)
   3. *count* [*google.com*](http://google.com/)
   4. *list*
3. To exit the program enter *exit*

Assignment submission

* Push your codebase to github and share with us.
* Mandatory files of your github repo’s root folder
  + Usage guide and features implemented, as readme.txt file.
  + Documentation on architecture and design as architecture.txt file.
  + Diagram the database schema in schema.png
* Demonstrate the project and screen-record the same with your voice commentary.(don’t spend too much time on this, a quick and short one is fine) Send it to us on WhatsApp or email.
* Any additional features implemented, should be clearly stated in readme.txt and will be given bonus points.

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