Golang Assignment:

Import and Manage Data

Objective:

Build a Golang program to import data from an Excel file, store it into MySQL, and cache the data in Redis. Create a simple CRUD (Create, Read, Update, Delete) system to view imported data, edit records, and update the changes to both the database and cache.

Framework:
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Task:

Import Excel Data:

- Write a Golang function to read data from a given Excel file.
- Parse the data and structure it appropriately.

Store Data:

- Connect to MySQL and create a table to store the imported data.
- Implement a function to insert the parsed data into the MySQL database.
- Connect to Redis and cache the imported data.

View Imported List:

- Create an API endpoint or a command-line interface to view the imported data.

● Display the data in a readable format.

Edit Record:

● Allow users to edit a specific record.
● Update the record in both the MySQL database and Redis cache.

Clear Cache and Update Database:

● Implement a function to clear the cache in Redis.
● Update the changes from the cache to the MySQL database.

Submission:

● Provide the Golang code along with necessary configuration files.
● Include a README.md with instructions if any
● Note: Ensure that the necessary Golang packages for Excel parsing, MySQL, and Redis are used, and all dependencies are clearly documented.
● The code should be well-organized, follow best practices, and include error handling mechanisms.