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COMP 7940 Cloud Computing

Lab 4

**Questions:**

1. Please describe the architecture of the current chatbot system. Identify the components and check where are they running now.

2. Explain how do your chatbot handle the special command. You need to trace the code and explain that.

3. Update your code so that when user type /hello Kevin , it will reply Good day, Kevin! . Write down the change you have made.

4. Make a few screen caps to prove that you have applied your own Redis account, used it in your chatbot, and push the code on GitHub (at least 2 commits - lab3/lab4).

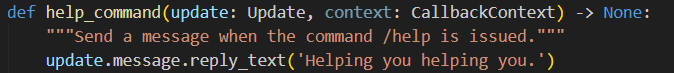
**Answer:**

1. The chatbot is running on a local machine. It consists of a database, which is running on Redis, which provides storage on cloud. It also contains external resources which is through calling API to receive response from ChatGPT. ChatGPT is running on cloud partform.
2. The chat could handle special commands like /help, /add and /hello. It can also respond to prompt answered by ChatGPT.

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AI 產生的內容可能不正確。

For /help, when user type /help, it responds ‘Helping you helping you.’



For /add, when user type /add <keyword>, it records the keyword and increase the count by 1. Then response ‘You have said’ + <keyword> + ‘for’ + <count>+ ‘ times.’

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AI 產生的內容可能不正確。

For /hello, when user type /hello <keyword>, it responds ‘Good day, ’ + <keyword> + ‘!’

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AI 產生的內容可能不正確。

For general query, it is handled by ChatGPT through API, prompt is posted to ChatGPT and receive response and output to user.

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AI 產生的內容可能不正確。

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AI 產生的內容可能不正確。

1. In main(), after help handler add the following

dispatcher.add\_handler(CommandHandler("hello", hello\_command))

And after add function, add the following function

#add /hello command

def hello\_command(update: Update, context: CallbackContext) -> None:

    """Send a message when the command /hello is issued."""

    try:

        logging.info(context.args[0])

        msg = context.args[0] # /hello keyword <-- this should store the keyword

        update.message.reply\_text('Good day, ' + msg +'!')

    except (IndexError, ValueError):

        update.message.reply\_text('Usage: /add <keyword>')

1. Created account in Redis

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Store credentials in config.ini

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Committed to Github

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