

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

Ans: Telegram Bot API: This API allows the chatbot to interact with Telegram users by sending and receiving messages

Updater: This component is provided by the Telegram Bot API and is used to receive updates from Telegram

Redis Database: Redis is used to store the number of times each keyword has been mentioned.

Message Handlers: These are the functions that are executed when the chatbot receives a message or command from a user.

Logging: The logging module is used to log information about the status of the bot and the incoming and outgoing messages.

Handlers: defines several handlers that process user messages in different ways. For example, `add` handler increments the count of a specific keyword that the user has sent.

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

Ans: The chatbot handles special commands using `CommandHandler` instances. When a user sends a command starting with "/", the command handler will invoke the corresponding function to process the command.

For example, the command `/add` is handled by the `add` function, which takes two arguments, `update` and `context`. The `update` argument contains information about the user and the message, while the `context` argument provides access to the bot's functionality.

The `help_command` function is similar, in that it sends a message to the user when the `/help` command is received.

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

```
def help_command(update: Update, context: CallbackContext) -> None:
    """Send a message when the command /help or /helloKevin is issued."""
    if update.message.text == '/helloKevin':
        update.message.reply_text('Good day, Kevin!')
    else:
        update.message.reply_text('Good to see you.')
```





yl luo
/helloKevin



ChatGPT
Good day, Kevin!


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).

 **HongKongBaptistUniversity-free-db** 


Database #11495920

[Configuration](#) [Metrics](#) [Slowlog](#)

Public endpoint

redis-14504.c91.us-east-1-3.ec2.cloud.redislabs.com:14504 

Type







 Redis Stack

Creation time

Redis version

6.2.6

Last changed

 master	 1 branch	 0 tags	Go to file	Add file	<> Code
 lyl7650 second commit			4e95819 now 2 commits		
 chatbot.py	first commit		2 minutes ago		
 chatbot_upgrade.py	second commit		now		



yl lu
/helloKevin



ChatGPT
Good day, Kevin!



yl lu
/add luoyulin



ChatGPT
You have said luoyulin for 1 times.



yl lu
hello



ChatGPT
HELLO