


# Chatbot Overview

By: Antonio Turner

# Scope

- District 59
- Using C++ as my language

House > Members of the House > Representative Terry Alexander



### Representative Terry Alexander

Democrat - Florence  
District 59 - Darlington & Florence Counties - [Map](#)

|   |  |
|---|--|
| <b>Columbia Address</b><br>314C Blatt Bldg.<br>Columbia 29201 | <b>Home Address</b><br>1646 Harris Court<br>Florence 29501 |
| <b>Business Phone</b> (803) 734-3004                          | <b>Home Phone</b> (843) 665-7321                           |

[Send message to Representative Alexander](#)

#### Personal Information

- Education Consultant & Pastor
- Residing at 1646 Harris Court, Florence
- Born January 23, 1955 in Florence
- Son of the late James and Adell Alexander
- Durham Business College, A.D., 1976
- Francis Marion University, B.A., 1991
- Howard University School of Divinity, M. Div., 1998
- Married to Starlee Davis Alexander, 2 children, Terrell McClain and Matthew
- Pastor, Wayside Chapel Baptist Church
- Career Development Consultant
- Adjunct Professor of Religion, Limestone College
- Pee Dee Regional Council of Governments
- Past President, Habitat for Humanity, Board of Directors
- Charter member, The Florence Breakfast Rotary Club
- Past President, Boys and Girls Club of Florence
- Boy Scouts of the Pee Dee Executive Boards
- Florence Branch, NAACP, past President
- Mercy Medicine Board
- Pee Dee Chapter American Red Cross
- 100 Black Men of the Pee Dee
- Kappa Alpha Psi Fraternity, Inc.
- Francis Marion Society
- National Association of County Officials
- National Association of Black County Officials
- South Carolina Association of Black County Officials
- South Carolina Association of Guidance Counselors
- South Carolina Alliance of Black Educators

#### Committee Assignments

- Education and Public Works, 2nd V.C.
- Regulations and Admin. Procedures

#### Sponsored Bills in the House

- Primary Sponsor: ☒ Yes ☐ No
- Search Session:  [Find Bills](#)

#### Voting Record

- Search Session:  [Find Votes](#)

#### Service In Public Office

- Florence County Council, 1990-06, District Number 3
- House of Representatives, 2007 - Present

# Data

## Contact information

- Name, address, phone, etc.

## Committee Assignments

- Two committees

## Sponsored Bills in the House

## Voting Record

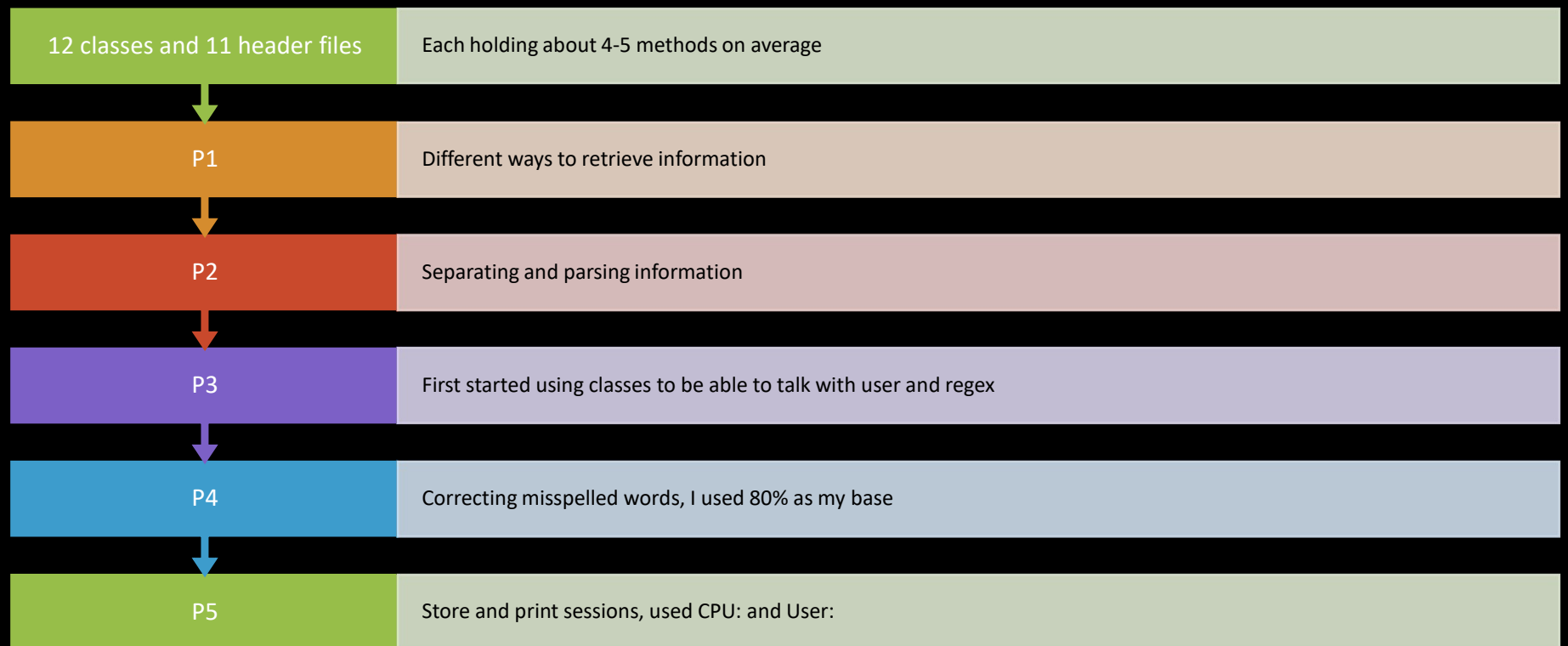
## Service In Public Office

- Service records

## Personal Information

- Family information, schools, fraternities, etc.

# Code Organization



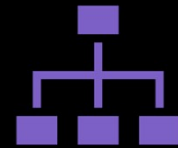
# Code Reuse by and of



THROUGHOUT P1-P6, AYDEN OWENS  
AND I USED A FEW POINTERS FROM  
EACH OTHER TO HELP



I USED HIS REGEX AND CLASS/HEADER  
STRUCTURE



HE USED MY TOLOWER() AND  
SUMMARY STRUCTURE

# Queries

---

[#1] “Quit” or “quit” or just “q” => Program exits

---

[#2] “Tell me about the representative”, “Tell me about the rep” => Personal Information (Type-I2)

---

[#3] “Where does the rep live” => Contact Information (Type-I1): Home Address

---

[#4] “How do I contact my rep ” => Contact Information (Type-I1) [#5] “What committees is my repo on” => Committee Assignments (Type-I3)

---

[#6] “Tell me everything” => Give all information Extracted

---

[#7] “What district do you support for Q/A” => Give district number and name

---

[#8] => “I do not know this information” or “Here is my guess”

# Summary Queries

---

`myrep-chatbot --summary` => There are 12 chats to date with user asking 23 times and system respond 24 times. Total duration is 456 seconds.

---

- `myrep-chatbot --showchat-summary 2` => Chat 2 has user asking 2 times and system respond 2 times. Total duration is 4 seconds.

---

- `myrep-chatbot --showchat 2` => Chat 2 chat is:  
...

---

- `myrep-chatbot --showchat 200` => ERROR: there are only 12 chat sessions. Please choose a valid number.

## Video Link

- <https://github.com/Adw010/CSCE-240/tree/main/myrep-chatbot/Doc>



# Examples/Testing

```
PS C:\Users\Antonio Turner\Desktop\CSCE240\myrep-chatbot\src> g++ .\Main.cpp
PS C:\Users\Antonio Turner\Desktop\CSCE240\myrep-chatbot\src> .\a.exe
Starting recording for session labeled 19-04-2022 07-01-04
Hello there. My name is ChatBot. How are you?
great
That is wonderful to hear! I am an AI so I cannot feel that but it sounds wonderful.
If you want to know about the District 77 rep, you have two options.
Option one is to be able to ask a limited number of free formed questions based on known data.
Option two is to be able to have a conversation with me as I guide you through the experience.
Option three is to check the summary of the csv. Note, we will not save this to the csv or text file.
Please tell me which option you would like. You may say summary, free form or conversation.
free form

Please ask a question and I can tell you where to find the answer.
When you recieve the location of where your search is, the discriptive will provide the details.
what is the name
For name information, you should go look at Contact information, by parts or whole. We will now send you there.
Please provide the district number.
59
1/31/22, 5:26 PM
South Carolina Legislature Online - Member Biography
Representative Terry Alexander
Democrat - Florence
District 59 - Darlington & Florence Counties - Map
Columbia Address
314C Blatt Bldg.
Columbia 29201
Home Address
1646 Harris Court
Florence 29501
Business Phone (803) 734-3004
Home Phone (843) 665-7321
Send message to Representative Alexander

What category in Contact would you like to see:
Type name, region, address, or phone.
name
The name is: Representative Terry Alexander

Action complete. Do you want to exit? Otherwise, I will send you to the main screen.
```

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free form

Please ask a question and I can tell you where to find the answer.
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# Examples/Testing

```
File Edit Selection View Go Run Terminal Help
Voting.cpp - src - Visual Studio Code

EXPLORER
  SRC
    .vscode
    a.exe
    Category.cpp
    Category.h
    ChatSession.cpp
    ChatSession.h
    Committee.cpp
    Committee.h
    Contact.cpp
    Contact.h
    Counter.cpp
    Counter.h
    Distinguishing.cpp
    Distinguishing.h
    Freeform.cpp
    Freeform.h
    Main.cpp
    Personal.cpp
    Personal.h
    Service.cpp
    Service.h
    Sponsored.cpp
    Voting.cpp
    Voting.h

Voting.cpp > Voting()
  timeend 7 of 5

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
  powershell
  cont

Find Bills
Voting Record
Search Session:
2021-2022 (124)
Find Votes
Service In Public Office
House of Representatives, 2007 - Present
Florence County Council, 1990-06, District Number 3
Personal Information
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South Carolina Association of Black County Officials
South Carolina Association of Guidance Counselors
South Carolina Alliance of Black Educators
Legislative Services Agency
http://www.scstatehouse.gov
https://www.scstatehouse.gov/member.php?code=0011363635 1/1
Action complete. Do you want to exit? Otherwise, I will send you to the main screen.
q
PS C:\Users\Antonio Turner\Desktop\CSCE240\prog5-sessionlogger\src>
```

```
File Edit Selection View Go Run Terminal Help
Voting.cpp - src - Visual Studio Code

EXPLORER
  SRC
    .vscode
    a.exe
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Voting.cpp > Voting()
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http://www.scstatehouse.gov
https://www.scstatehouse.gov/member.php?code=0011363635 1/1
Action complete. Do you want to exit? Otherwise, I will send you to the main screen.
q
PS C:\Users\Antonio Turner\Desktop\CSCE240\prog5-sessionlogger\src>
```

# Examples/Testing

| Chat_Sessio User # | Comp # | Time_Taken (in seconds) |
|--------------------|--------|-------------------------|
| 04-04-2021         | 6      | 13 4.914539             |
| 04-04-2021         | 6      | 13 3.334961             |
| 04-04-2021         | 6      | 13 5.671989             |

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Option one is to be able to ask a limited number of free formed questions based on known data.  
Option two is to be able to have a conversation with me as I guide you through the experience.  
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Please tell me which option you would like. You may say summary, free form or conversation.

sum

Chat\_Session User # Comp # Time\_Taken (in seconds)

test 12 65 9.876

test2 13 45 10

Number of lines is: 2

Would you like to showchat, showchat summary or end? Press 1, 2 or 3

1

Which chat log would you like to see? Note the limit is: 2.

2

test2 13 45 10

PS C:\Users\Antonio Turner\Desktop\CSCE240\prog5-sessionlogger\src>