Internship Project Report – Task 3
Chat Application

Intern Details

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- College: Podhigai College of Engineering and Technology
- Academic Year: 2022–2026
- Department: Computer Science and Engineering (CSE)
- CGPA: 8.83
- Domain: Python Programming
- Internship Provider: Oasis Infobyte

Objective

To create a simple terminal-based chat application using Python, where two users can type messages turn by turn and simulate a real-time chat. The program ends when either user types "exit".

Technologies Used

Python 3.x

Python IDLE

input() function

while loop

Conditional statements (if, break)

String handling

Screen capture tools for output

Logic Used

1. Display a welcome message and instructions

2. Use a while loop to run the chat continuously

3. Take message input from User1 and User2 in   turns

4. After each turn, display both users' messages

5. If either user types "exit", the program ends

6. Use .lower() to make the exit case-insensitive

Source Code

```python
#chat application python code
print("Welcome to Chat Application!")
print("Type 'exit' to end the chat.\n")
```

```python
while True:
    user1 = input("User1: ")
    if user1.lower() == "exit":
        print("Chat ended by User1.")
        break

    user2 = input("User2: ")
    if user2.lower() == "exit":
        print("Chat ended by User2.")
        break

    print(f"\n--- Chat ---")
    print(f"User1: {user1}")
    print(f"User2: {user2}")
    print("------------\n")
```

Output Screenshot(both user1 and user2 end chat)

```
IDLE Shell 3.13.1
File  Edit  Shell  Debug  Options  Window  Help
Python 3.13.1 (tags/v3.13.1:0671451, Dec  3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\sandhiya\AppData\Local\Programs\Python\Python313\task_3_Chat_Application.py
Welcome to Chat Application!
Type 'exit' to end the chat.

User1: hello
User2: hi

--- Chat ---
User1: hello
User2: hi
------------

User1: how are you
User2: i am fine what about you

--- Chat ---
User1: how are you
User2: i am fine what about you
------------

User1: i am good
User2: how is your studies

--- Chat ---
User1: i am good
User2: how is your studies
------------

User1: good
User2: exit
Chat ended by User2.
>>>
```

```
IDLE Shell 3.13.1
File  Edit  Shell  Debug  Options  Window  Help
Python 3.13.1 (tags/v3.13.1:0671451, Dec  3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
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User1: hi
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User1: how are you
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--- Chat ---
User1: how are you
User2: i am good
------------

User1: how is your studies
User2: good

--- Chat ---
User1: how is your studies
User2: good
------------

User1: exit
Chat ended by User1.
>>>
```

Conclusion

This Chat Application project provided a practical implementation of:

- User input , Conditional logic
- Loop handling
  It helped simulate a real-time user interaction system using basic Python syntax and logic.