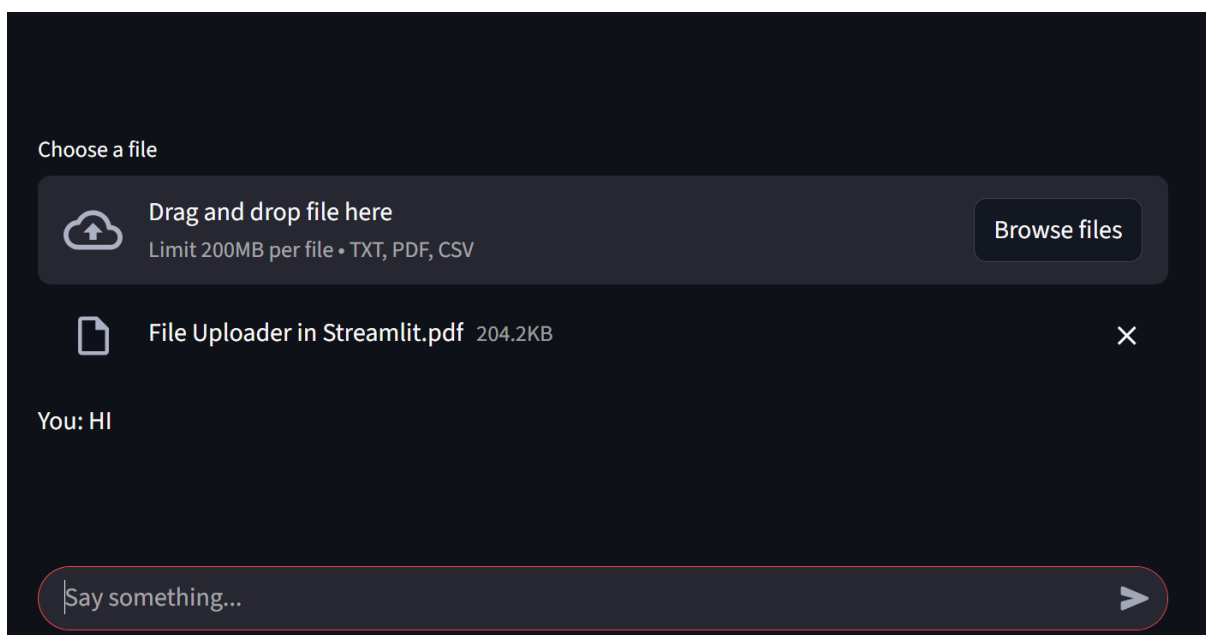**K. SATYA SAMPATH KUMAR**

Streamlit Application Documentation

This document provides a breakdown of a Streamlit application that includes a file uploader and a chatbox. The code and its resulting user interface are shown in the images provided.

CODE

```
app.py ✕
app.py > ...
1    import streamlit as st                        #NAME-K.SATYA SAMPATH KUMAR MAIL-ZYWU801@GMAIL.COM
2    file = st.file_uploader("Choose a file", type=["txt", "pdf", "csv"])
3    if "history" not in st.session_state:
4        st.session_state.history = []
5    msg = st.chat_input("Say something...")
6    if msg:
7        st.session_state.history.append(msg)
8    for m in st.session_state.history:
9        st.write("You:", m)
10
```

OUTPUT

- **import streamlit as st**: This line imports the Streamlit library, making its components and functions available for use. We've given it the alias st for brevity.

- **st.file_uploader()**: This is the Streamlit function that creates the file uploader widget.

- **"Choose a file"**: This is the label that appears above the file uploader box, giving instructions to the user.

- **type=["txt", "pdf", "csv"]**: This argument specifies the accepted file types. In this case, users can only upload files with .txt, .pdf, or .csv extensions.

- **if "history" not in st.session_state:**: This line checks if a key named "history" exists in Streamlit's session_state. session_state is a dictionary-like object that persists data across reruns of the application.

- **st.session_state.history = []**: If "history" doesn't exist, this line initializes it as an empty list. This is crucial for maintaining the chat history as the user interacts with the app.

- **st.chat_input("Say something...")**: This function creates a chat input box at the bottom of the screen. The text "Say something..." is the placeholder text shown to the user.

- **if msg:**: This condition checks if the user has entered and submitted a message.

- **st.session_state.history.append(msg)**: If a message is submitted, this line appends it to the history list in the session state.

- **for m in st.session_state.history:**: This loop iterates through all the messages stored in the history list.

- **st.write("You:", m)**: This function writes the message to the application's main area, displaying "You:" followed by the message text.

How to Run the Application

To run this Streamlit application, save the code in a Python file (for example, app.py) and then execute the following command in your terminal:

streamlit run app.py

This command starts a local web server, which will automatically open a new tab in your default browser showing your Streamlit application.