

# DSSS Homework 9

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D:\> DSSS > Assignment1 > dsss_homework_9 > bot_server.py > process
25 # Message handler for processing user input
26 async def process(update: Update, context: CallbackContext) -> None:
27     try:
28         user_message = update.message.text
29         logger.info(f"User message: {user_message}")
30
31         prompt = f"Q: {user_message}\nA:"
32
33         # Generate a response using TinyLlama
34         response = pipe(
35             prompt,
36             max_length=150, # Increase max_length for more detailed responses
37             num_return_sequences=1, # Generate only one response
38             temperature=0.7, # Adjust creativity (0 = deterministic, 1 = creative)
39             top_p=0.9, # Use top-p sampling for better quality
40             truncation=True, # Truncate input if it's too long
41             pad_token_id=pipe.tokenizer.eos_token_id, # Use EOS token for padding
42             )[0]['generated_text']
43
44         # Extract only the assistant's response (remove the prompt)
45         assistant_reply = response.split("A:")[1].strip()
46         logger.info(f"Generated response: {assistant_reply}")
47
48         # Send the response back to the user
49         await update.message.reply_text(assistant_reply)
50     except Exception as e:
51         logger.error(f"Error generating response: {e}")
52         await update.message.reply_text("Sorry, I encountered an error while generating a response.")
53
54 # Main function to start the bot
55 def main() -> None:
56     application = Application.builder().token(API_TOKEN).build()
57
58     # Add handlers
59     application.add_handler(CommandHandler("start", start))
60     application.add_handler(MessageHandler(filters.TEXT & ~filters.COMMAND, process))
61
62     # Start the bot
63     logger.info("Bot is running...")
64     application.run_polling()
65
```

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D:\> DSSS > Assignment1 > dsss_homework_9 > bot_server.py > process
1 from telegram import Update
2 from telegram.ext import Application, CommandHandler, MessageHandler, filters, CallbackContext
3 from transformers import pipeline
4 import logging
5
6 # Replace with your Telegram bot token
7 API_TOKEN = "7707424980:AAGYUuVcuCYjTp_2bMQFFNNS8zv1cOPaFY"
8
9 # Set up logging
10 logging.basicConfig(level=logging.INFO)
11 logger = logging.getLogger(__name__)
12
13 # Load TinyLlama model
14 logger.info("Loading TinyLlama model...")
15 pipe = pipeline("text-generation", model="TinyLlama/TinyLlama-1.1B-Chat-v1.0")
16 logger.info("TinyLlama model loaded successfully.")
17
```

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