Artificial Intelligence Programming
Final Project: Summative

Chatbot for Social Cause

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Introduction:

In today's rapidly moving world of Artificial Intelligence (AI), chatbots have become even more important, offering a lot of functionalities and services. From assisting in complex tasks to providing personalized recommendations, chatbots like ChatGPT, Bard, and Jasper Chat have transformed the way we interact with technology. Inspired by the versatility of these AI chatbots, I went on a journey to create a chatbot with the important purpose of addressing the major issue of gender equality. The name of my chatbot is "Gender_Fairness_Bot".

Problem Statement:

Gender bias remains stuck in various corners of society, manifesting in unfair and terrible forms. Whether it's difficulties in employment opportunities, education at school or college, or societal expectations, the impact of gender inequality is profound and is everywhere, this also stops individuals from following their dreams. Recognizing the urgency of this issue, I set out to develop a chatbot with the ability to combat gender biases and foster inclusivity.

Goal/Objective:

The major goal of this project is to design and deploy a chatbot on the Telegram platform, specifically engineered to tackle gender inequality. Through the integration of

Python programming, the chatbot "Gender_Fairness_Bot" is poised to serve as a virtual ally for individuals navigating the complexities of gender bias. By providing accessible resources, guidance, and support, I aimed to empower users to challenge societal norms and pursue their aspirations without constraints imposed by gender stereotypes.

Approach: Top-down:

Taking a top-down approach, I went on a difficult journey of research and exploration. My quest began with a deep dive into the intricacies of Telegram chatbot development, uncovering the technical difficulties and best practices. Simultaneously, I conducted a thorough examination of existing gender equality chatbots, checking their functionalities and user interactions for very valuable insights. Armed with a comprehensive understanding, I proceeded to implement the Python Telegram library, laying the foundation for my chatbot's creation. Leveraging the collaborative capabilities of Google Colab, I very carefully crafted and refined the code, ensuring seamless integration and optimal performance.

Results and Conclusion:

The culmination of hard work, effort, and unwavering commitment, Azmah Theba stands as a testament to the transformative potential of AI in addressing social issues. Through its innovative design and amazing features, the chatbot offers a lot of hope for individuals grappling with gender bias. From providing educational resources and empowering narratives to facilitating community engagement and advocacy, this chatbot catalyzes change in the pursuit of gender equality.

In conclusion, the journey towards gender equality is very complex, requiring concerted efforts from all segments of society. This chatbot represents a pioneering step in leveraging AI technology to effect positive change, transcending boundaries and amplifying voices in the pursuit of a more equitable future. As we continue to refine and expand Azmah Theba's capabilities, let us remain steadfast in our commitment to creating a world where gender equality is not just a simple idea but a tangible reality.
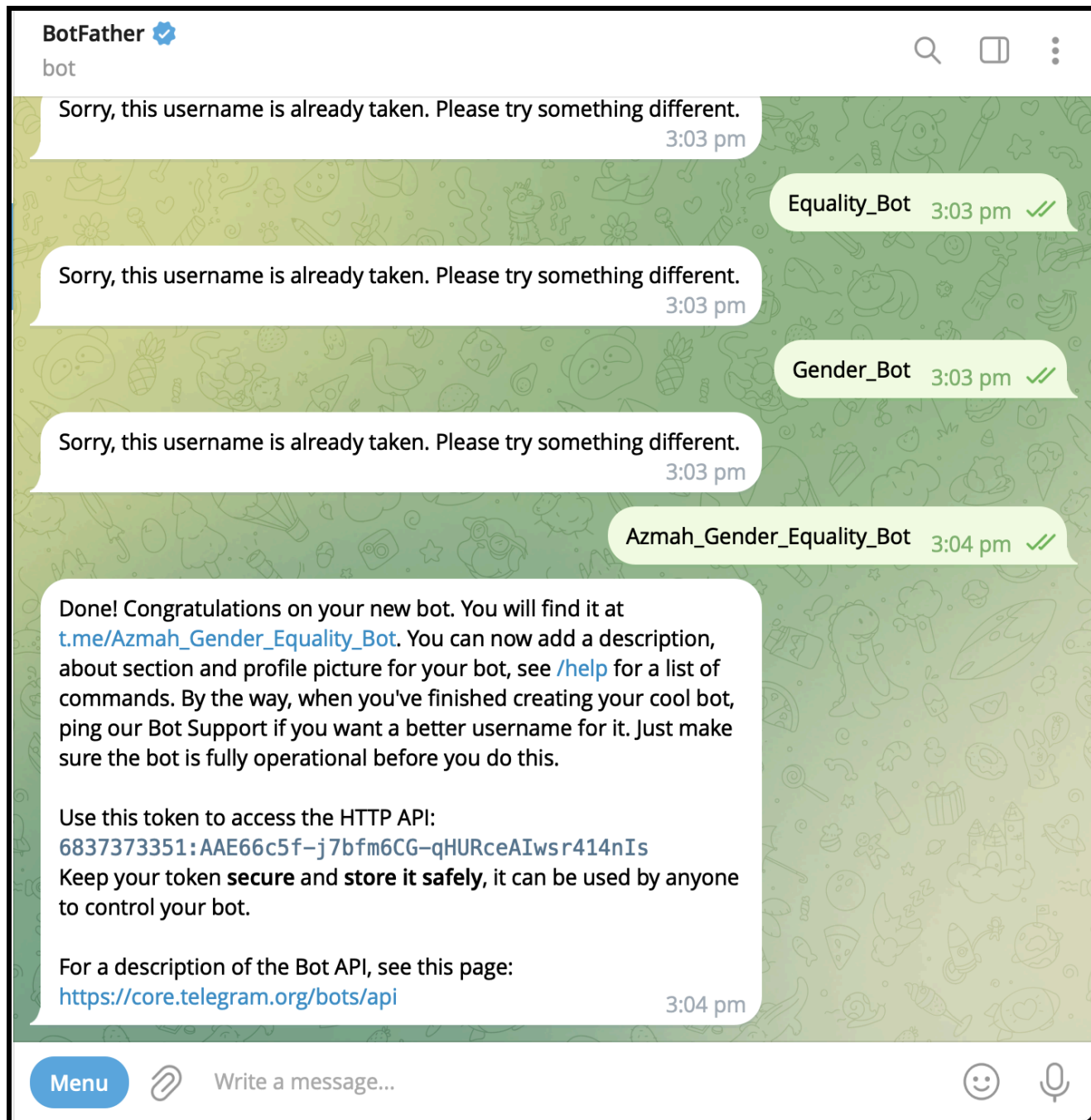

Screenshots:

Figure 1.1

In Figure 1.1, we can see that we have created the bot in Telegram with the help of "BotFather" and extracted the API code for our chatbot.
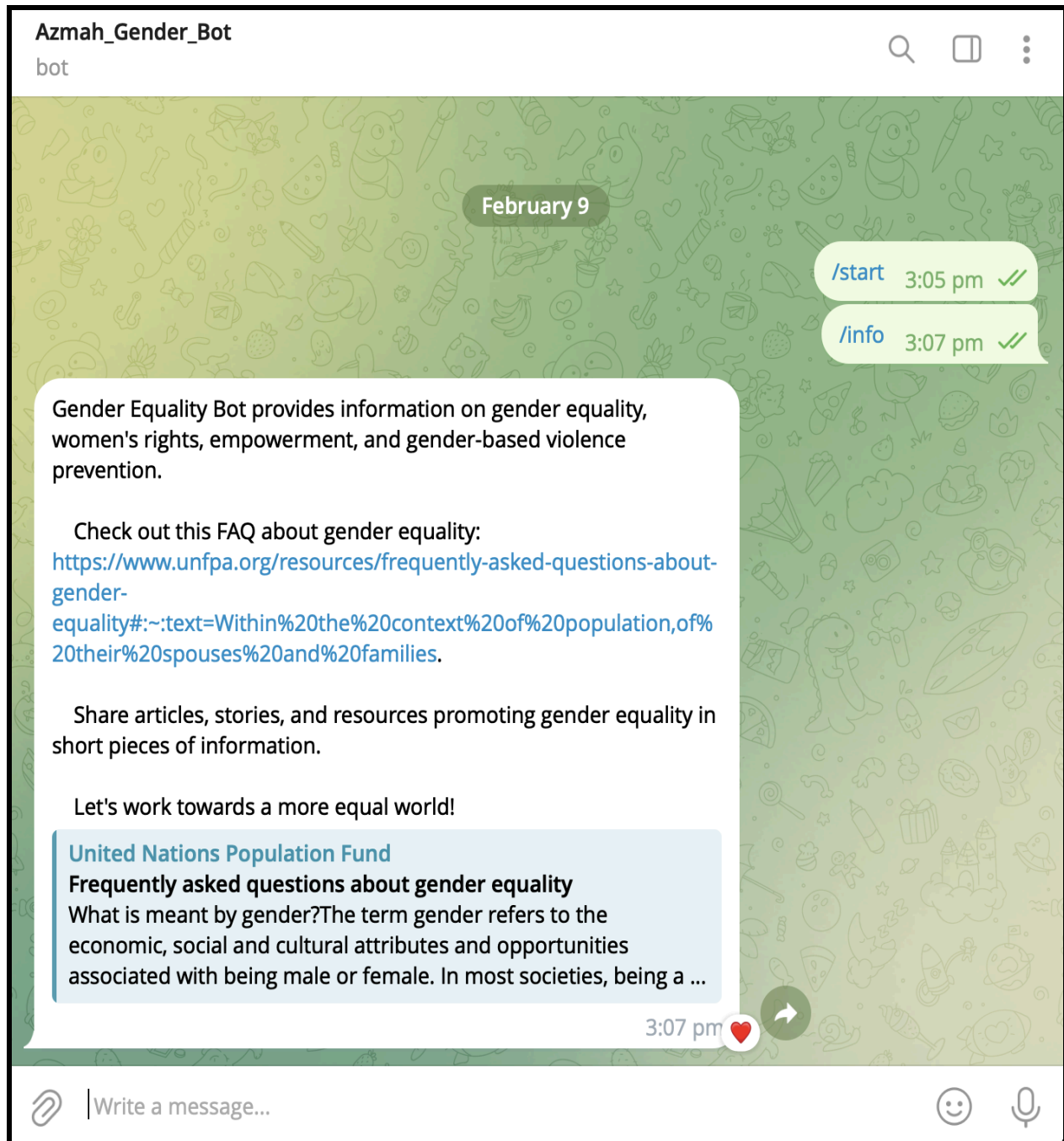
Figure 1.2

In Figure 1.2, we can see that after implementing the code, the chatbot finally works and can be asked questions about gender equality.

Figure 1.3

In Figure 1.3, we can see the code that had been run in Google Collab for better functioning of the code.

References:

Google Colaboratory. (n.d.).
https://colab.research.google.com/drive/14hBko5taKKVd05r-wObISTRGl9l5MyzY?usp=sharing

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