Final Product

Project Name:

**ARIA: Active Responsive Integrated AI**

[Team 4]

**Team Members:**

Jordyn Jones, Lewis Dante, Will Martin, Jackson Nuckles, Joshua Onuoha, Phillip Pham, Miguel Ramirez

All team members contributed to the document

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**1.0 Introduction to ARIA Code:**

Welcome to the codebase of ARIA, an acronym representing Active Responsive Integrated AI. ARIA is an ambitious project that merges the power of Discord, Instagram, and OpenAI's GPT to create a seamlessly integrated and responsive AI experience. This code is designed to facilitate interactions between a Discord bot, an Instagram automation script, and the OpenAI GPT API, providing a comprehensive platform for dynamic conversations and social media automation. By following the instructions and notices provided, you can harness the capabilities of ARIA to enhance your Discord server's engagement, automate Instagram interactions, and leverage the prowess of OpenAI's GPT for natural language processing. Explore the possibilities that ARIA brings to the intersection of social media and artificial intelligence.

**2.0 The Project can be found in the following link:**

[ARIA.ipynb - Colaboratory (google.com)](https://colab.research.google.com/drive/1IfnfkJm_kSw0wW3m1dxbU8NSp7KicnLK#scrollTo=QZPrAm_wNMp6)

**3.0 Directions**

To run the provided code successfully, you'll need the following:

**3.1 Discord Bot Token:**

Replace the placeholder TOKEN with your actual Discord bot token. You can obtain a bot token by creating a new bot on the Discord Developer Portal found at <https://discord.com/developers/applications> and adding it to your server.

**3.2 Instagram Credentials:**

Replace the placeholders INSTAGRAM\_USERNAME and INSTAGRAM\_PASSWORD with your actual Instagram username and password.

**3.3 Instagram Webhook Verification Token:**

Replace the placeholder INSTAGRAM\_VERIFY\_TOKEN with your actual Instagram webhook verification token. This can be found at [All Apps - Meta for Developers (facebook.com)](https://developers.facebook.com/apps).

**3.4 OpenAI API Key:**

Replace the placeholder OPENAI\_API\_KEY with your actual OpenAI GPT API key. This can be found at [OpenAI Platform](https://platform.openai.com/account/usage).

**3.5 Webhook URL:**

Update the webhook\_base\_url variable with your actual domain. Make sure that the Discord bot and Instagram webhook endpoints are correctly set up. For this project we used [Free Domain Name | Register Your Domain Today | Wix.com](https://www.wix.com/domain/names). Please note that this is a paid service.

**3.6 Python Packages:**

Install the required Python packages by running the following command:

pip install Flask requests discord instabot nest\_asyncio

Make sure to run this command in the environment where you intend to execute the script.

**3.7 Instagram Bot Usage:**

Note that automating interactions with Instagram, such as following and unfollowing, may violate Instagram's terms of service. Be sure to review and comply with Instagram's policies.

**3.8 Dependencies:**

Ensure that you have Python installed on your system.

**3.9 Run the Code:**

Execute the script, and both the Discord bot and Flask app for the Instagram webhook will start.

**4.0 Notices**

**4.1 Discord Bot Token:**

Ensure that you keep your Discord bot token confidential. Do not share it publicly or expose it in your code repository.

**4.2 Instagram Credentials:**

Exercise caution when handling Instagram credentials in your code. Store them securely, and avoid sharing them in public spaces.

**4.3 Instagram Webhook Verification Token:**

Safeguard your Instagram webhook verification token. It's essential for the security of your Instagram integration.

**4.4 OpenAI API Key:**

Treat your OpenAI GPT API key as sensitive information. Do not share it publicly or expose it in your code repository.

**4.5 Webhook URL:**

Ensure that the webhook URL is correctly configured and points to a secure and valid domain. Incorrect configurations may lead to webhook failures.

**4.6 Python Packages:**

Run the pip install command in a controlled environment. Avoid using global Python environments to prevent conflicts with existing packages.

**4.7 Instagram Bot Usage:**

Be aware that automating interactions with Instagram, such as following and unfollowing, may violate Instagram's terms of service. Use automation responsibly and in compliance with Instagram's policies.

**4.8 Dependencies:**

Verify that you have Python installed on your system with the necessary version to support the code.

**4.9 Code Execution:**

Execute the script responsibly and consider running it in a controlled environment. Review the script's functionality and adjust it as needed for your specific use case.

**4.10 Script Execution Duration:**

Note that the script includes intervals of 3600 seconds (1 hour) between certain Instagram actions. Adjust these intervals based on your requirements and Instagram's rate limits.

**5.0 Conclusion:**

As you embark on utilizing the ARIA project, we encourage you to explore the innovative features and integrations it offers. ARIA brings together Discord, Instagram, and OpenAI GPT to create a dynamic and responsive AI experience. However, with great power comes great responsibility. Please be mindful of the notices provided, especially regarding the security of credentials and adherence to platform policies. Most importantly, have fun experimenting with ARIA's capabilities, fostering engaging conversations, and automating social media interactions. Remember to use this tool responsibly, respecting the terms of service of each platform involved. ARIA is designed to enhance your digital experiences, so make the most of it while maintaining a positive and responsible approach. Enjoy the journey with ARIA!