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We The Future Submission

**Project Link**: <a href="https://replit.com/@ClaireZhu3/Constitution-ChatBot?v=1">https://replit.com/@ClaireZhu3/Constitution-ChatBot?v=1</a>

## **Summary**

How can I use technology to promote the U.S. Constitution? I thought about this long and hard, even late at night lying awake running various ideas through my head on how I could weave information about the Constitution in a fun and interesting way to connect to users. A website? A Google Form? A game?

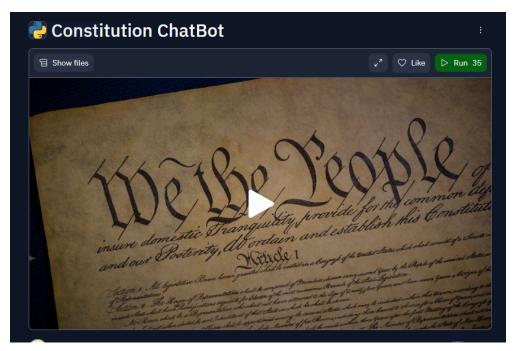
In the end, I chose to create a ChatBot using Python to teach people about the Constitution in easy-to-understand terms while simultaneously interacting with a friendly character.

A ChatBot seems simple at first, but behind the scenes, it's a lot more work. The ChatBot is meant to ask the user questions and respond accordingly with information, but there are many different variations of what the user could input. In order to make this ChatBot more flexible, I included many cases, from the "scale 1-5" question to the year question, where if the user does not answer it correctly, they can try again. The ChatBot also accommodates all kinds of people, from those who have zero knowledge of the Constitution to experts. If you don't want to learn about the origins of the Constitution or already know about the different Articles, you can skip those sections entirely by just saying "no".

Working on this project has helped me gain a better understanding of the Python language and all the nuances of coding. Something cool that I learned how to do while developing the ChatBot was making the letters appear one-by-one as if the ChatBot is typing by itself. I think it's a small detail that makes all the difference. Additionally, I was able to build on and grow my knowledge about the Constitution. Although I have learned a bit about the government in my U.S. History classes, I now understand each section of the Constitution in greater detail, particularly the Preamble which I used to view as less significant, though now I know why it was necessary to include.

## Results

Due to Replit's own limitations, I was unable to identify the specific users who viewed my project. But, as of September 2022, there have been an overall 35 users who have run my project.



In order to advertise my ChatBot, I not only published the project for Replit users to view, but I also reached out to various Discord servers that I am a part of and asked them to check it out. This includes the AiGoLearning teacher server, which is a non-profit I am a part of that teaches coding to young kids. I also made posts to the Beginner.Codes, Pythonista, Developer Den, and Girls Who Code Self-Paced Program servers. I can credit a majority of the views to these users on Discord, and I am especially grateful that these kinds of social platforms are available for people to hang out, learn from each other, and grow.



\*This user is hidden to keep their identity private\*

A few Discord users even reached out to me with funny things or small bugs they found about the project. It was awesome to see these reactions and the impact I had on people I didn't even know.

(Don't worry, I fixed all the bugs!)

To further market my ChatBot, I would use my position as a teacher of Python coding classes at AiGoLearning and show my project to kids. It is educational on both historical and technological fronts and can be used as an example for students to develop their own ChatBot. This way, they can simultaneously learn more about the U.S. government and the Constitution alongside the Python language. It is a great opportunity for the next generation to sample different forms of learning apart from just reading textbooks and taking tests.

Additionally, I can also reach out to my own school district and discuss with teachers of history and computer science courses on how they can use my project in their classes. My computer science teacher last year taught Python and throughout the year would make us complete large projects using the language. This ChatBot could be a part of his curriculum or even an extra-credit project. My U.S. History teacher in both fourth and seventh grade spent a whole week showing our class how to play the iCivics Branches of Power game to teach how the American government worked, and my ChatBot can become a part of that too. My project can turn a new page on modernizing learning history in school by intertwining it with technology.

## **Resources Used:**

https://www.whitehouse.gov/about-the-white-house/our-government/the-constitution/https://sites.google.com/a/massac.org/usconstitution/the-parts-of-the-constitutionhttps://law.tamu.libguides.com/c.php?g=513904&p=3510977