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Project Documentation/Summary of Contributions

- EasyArtistry is a project (led by Caleb) intended to act as a tool of aid in the visual arts. Artists who want to use our AI to improve their work without having ethics be called into question (with all the talk in the news and evidence out there that AI Image generation steals art from other artists to train their visual model, incorporating another Artist's style as a result), as our intention is to create a tool where an Artist can tell the AI what to change specifically rather than have it generate something new by itself altogether.

As I have not made any commits, below is a guide on how to get our stable diffusion webui running on your local machine and troubleshooting steps if it does not work (as this was the reason why I could not provide any commits as of yet)

1. Fork the repository
 - a. Create a branch from github by clicking the branch button, this will create your own copy of the main repository for EasyArtistry so you can make modification without messing up the original code (just in case you end up breaking something)
2. Clone the fork to your machine
 - a. Clone the repository from command line in your linux terminal (ubuntu if you took Data Structures at RPI) by at first navigating to your directory in your machine that you want to store these files in, and then typing in "git clone ____" filling in the blank with the github url you can find by clicking on the down arrow where it says "code" (green button).
3. Try to run the file
 - a. Open the file in your directory and click on the windows batch file titled "webui", run it
 - i. If it runs, the program will load shortly and you can begin testing.
 - ii. If it does not run, it will do one of two things:
 1. say you are missing something and will offer to fix it for you, if this is the case have it fix what it needs to fix (there's probably a feature needed that you don't have installed) and it should fix it and run.
 2. Say there is an error
 - a. If the error is **NOT** something along the lines of "Python not found", **PLEASE SEEK ASSISTANCE FROM PROJECT LEAD OR RCOS MENTOR**
 - b. If the error is about Python not being installed, read further for troubleshooting steps
4. TROUBLESHOOTING
 - a. In ubuntu/chosen linux terminal, make sure you are in the EasyArtistry directory of your machine, then type - python3 version and make sure you have python

3.10.6 installed (note - two hashes have no space they just look connected on the document without a space)

- b. Install the correct version of python by typing in “sudo apt-get install python3.10.6”
 - i. Check again after by doing - -python3 version to make sure it installed successfully
- c. Type “sudo apt-get install software-properties-common” and wait for it to finish downloading
- d. Type “sudo add-apt-repository ppa:deadsnakes/ppa” and wait for it to finish downloading
- e. Type “sudo apt-get update”
- f. then type “source main bin activate”
 - i. This should result in “(main)” appearing before the new terminal input line
- g. Finally type “python3 -m pip install -r requirements.txt” and this should finish downloading everything that is needed to run the EasyArtistry program (in theory).
- h. After doing all of this, refresh your directory in the file explorer, and reclick on the webui Windows Batch file once making sure that clear updates were made to your original cloned repository from what we did on linux/ubuntu.
 - i. If the program works, congrats- you are finally ready to start playing around with the program to test and understand before you make commits yourself to the code on your fork.
 - ii. If not, consider removing all downloads and this forked repo you cloned and your machine and delete it completely, as there may be a chance that something is just wrong with the file. **SEEK ASSISTANCE FROM PROJECT LEAD AND RCOS MENTOR, SHOW THEM THIS DOCUMENT TO PROVE YOU DID ALL THIS BEFOREHAND.**