TECHNICAL DOCUMENTATION GE01

PYTHON AND GIT/GITHUB

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RESOURCES

MERGING

https://git-scm.com/docs/git-merge

- Git Bash website details the git "merge" command with a brief overview of the syntax, capabilities, and all the available options.
- Details types of merging, possible conflicts that could arise from non-updated tree branches and solutions, and available configurations.
- Includes examples and specific commands.

Team used this resource to understand the merge command and assess what the assignment was asking by understanding the capabilities and conflicts arising from separate commits.

MERGING CONFLICTS

https://www.atlassian.com/git/tutorials/using-branches/merge-conflicts

- Git Bucket List website about resolving merging conflicts.
- Overviews causes of merge conflicts, how to identify them, and commands for fixing them.

We used this to help resolve our merge conflict from an not updated file version.

GIT COMMANDS

https://education.github.com/git-cheat-sheet-education.pdf

- Github produced a git command cheat sheet.
- Includes git command syntax and one sentence overview for accomplishing basic tasks including set up, configurations, pushing, merging, and analyzing.
- Does not include in depth analysis or options.

Team used this resource for command and syntax help.

PYTHON VIRTUAL ENVIRONMENT

https://packaging.python.org/en/latest/guides/installing-using-pip-and-virtual-environments/#creating-a-virtual-environment

- Python website about using a virtual environment.
- Its uses of virtual environment and brief instructions of setting up
- Details package installation and uses from multiple sources

Team used this for help creating/understanding python virtual environments.

HOW TO

MERGE

git checkout <branch merging to>; git merge <branch merging from>; git push

Note: Merging is for updating versions of the same file located in separate branches, not separate files. Make sure versions have the same file name in each branch.

TAG

git tag -a <tag name> -m '<tag description>"; git tag; git push origin <tag name>

PUSH A DELETED FILE

git rm <file name>; git commit -m "delete"; git push

EDIT A FILE THROUGH GIT

vim <file name>

ISSUE RESOLUTION

MERGING CONFLICT

Issue: Cannot push updates to github repository.

Cause: Branch version being edited is behind the branch version currently uploaded to github repository.

Solution: git pull; edit the file (vi <filename>) and remove indications of file edit placements such as "<<<<<<< HEAD "; git add <file name>; git commit -m <file name>; git push

Error Message:

File after being pulled:

PYTHON DOWNLOAD

Issue: Command prompt would not recognize the Python online download. when trying to create a virtual environment, even when some of us never installed Python before.

Cause: Unknown, but we might have installed it in the wrong directory.

Solution: We installed Python 3.11 from the Microsoft Store, resulting in no issues in creating the Python virtual environment from then out. It might have been automatically installed in the right location.