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 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 conflits arising from separate commits.

MERGING CONFLICTS

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

- Bit Bucketlist 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 versions.

GIT COMMANDS

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

- Git hub produced git command cheat sheat.
- 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.

KAJA 1

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

ISSUE RESOLUTION

MERGING CONFLICT

Issue: Cannot push updates to github repository.

KAJA 2

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

Error Message:

```
! [rejected] IterationUL -> IterationUL (non-Tast-Torward)
error: failed to push some refs to 'https://github.com/abiConway/cs3300kaja.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

File after being pulled:

```
print("KAJA")
print("Joshua Fuentes")
print("Andrew Douangprachanh")
print("Kim Call")
print("Abigail Conway")
<<<<<< HEAD
print("This is merge attempt 1")
======

print("The mission to MERGE!")
>>>>>> 09a1919470dba17fdef43ac3386f0ce69bc403c3
~
```

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