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Basic Storage Design Plan for Gitlet

**Overview**

* /proj2/.gitlet/savedStates/recentSave.ser: contains the most recent state of the previous Gitlet run.
* /proj2/.gitlet/savedStates/lastCommit.ser: contains the most recent state of the last commit.

**Sequential Example**

For each of the commands below, describe in detail what files on your computer change after the command is executed. Only list changes made to files. Do not list details regarding the reading of files. Since you’re using the Google Docs template, feel free to make fancy diagrams using Insert->Drawing (though this isn’t required).

**$ java Gitlet init**

* If it does not already exist, a new folder called .gitlet is created in the current directory.
* If it does not already exist, a new folder called savedStates is created in the .gitlet/ directory.
* If it does not already exist, recentSave.ser is created in the /proj2/.gitlet/savedStates/ directory. Currently there is nothing saved, but gitlet is saved as a serializable state.
* If it does not already exist, lastCommit.ser file is created in the /proj2/.gitlet/savedStates/ directory, and is awaiting it’s first commit.

**$ java Gitlet add dog.txt**

* recentSave.ser is modified and now tracks the file added, in this it would be dog.txt

**$ java Gitlet commit “initial commit of dog.txt”**

* lastCommit.ser is overwritten with an updated gitlet Commit class that tracks latest commits added to the current recentSave.ser of gitLet.
* recentSave.ser is updates to acknowledge that all changes were committed.

**$ java Gitlet add dog.txt**

* gitlet prints out a message to user: “File has not been modified since the last commit.”

**$ cp manyDogs.txt dog.txt**

* recentSave.ser is modified to include the updated file “dog.txt” and saves that the file was updated.

**$ java Gitlet add dog.txt**

* recentSave.ser is modified and saves the information that the user added the file to be staged for commit.

**$ java Gitlet commit “replaced dog.txt with manyDogs”**

* lastCommit.ser is overwritten with an updated gitlet Commit class that tracks latest commits added to the current recentSave.ser of gitLet.
* recentSave.ser is updated to acknowledge that all changes were committed.

**$ java Gitlet add manyDogs.txt**

* recentSave.ser is modified and now tracks the file added, in this it would be manyDogs.txt

**$ java Gitlet add ketchupFriend.txt**

* recentSave.ser is modified and now tracks the file added, in this it would be ketchupFriend.txt

**$ java Gitlet commit “added manyDogs and ketchupFriend”**

* lastCommit.ser is overwritten with an updated gitlet Commit class that tracks latest commits added to the current recentSave.ser of gitLet.
* recentSave.ser is updated to acknowledge that all changes were committed.

**$ java Gitlet commit YOLO**

* gitlet prints out a message to user: “No changes added to the commit.”

**$ cp doge.txt manyDogs.txt**

* recentSave.ser is modified to include the updated file “manyDogs.txt” and saves that the file was updated.

**$ java Gitlet add manyDogs.txt**

* recentSave.ser is modified and saves the information that the user added the file to be staged for commit

**$ java Gitlet commit “replaced manyDogs with doge”**

* lastCommit.ser is overwritten with an updated gitlet Commit class that tracks latest commits added to the current recentSave.ser of gitLet.
* recentSave.ser is updated to acknowledge that all changes were committed.

**$ java Gitlet add dog.txt**

* recentSave.ser is modified and saves the information that the user added the file to be staged for commit.

**$ java Gitlet commit “added dog yet again”**

* lastCommit.ser is overwritten with an updated gitlet Commit class that tracks latest commits added to the current recentSave.ser of gitLet.
* recentSave.ser is updated to acknowledge that all changes were committed.

Sources:

1. Storage Design Plan for Saving and Preferences Features in HugLife : <http://berkeley-cs61b.github.io/public_html/materials/lab/lab9/HugLifeStorageDesignPlan.pdf>