Engineering Analysis and Design

Project

**Version Control System**

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This project is an attempt for a basic implementation of a version control system from scratch.   
**We have implemented the following commands:**

1. *init*
2. *status*
3. *add*
4. *commit*
5. *diff*
6. *log*
7. *hash-object*
8. *cat-file*
9. *ls-files*
10. *reset*

These commands are at the core of the VCS, and we have implemented them with the same functionality as in a normal VCS system.

**How to run the VCS:**

*Note: This VCS implementation will run only on a Unix-based platform.*To begin tracking of changes by the VCS, we need to first initialize a repository(directory). This could be done in two ways: 1) telling the VCS to create a new repository 2) giving the VCS path to an existing empty repository. This is done by the init command.

For example: *python3 jarvis.py init myrepo*Thus, first we need to write python3 (version of python) then we need to specify the name of our VCS file, finally the command along with its arguments.

*Note: To obtain information about the commands and their arguments type:  
python3 jarvis.py --help*

Then change your directory to the current repository. After that, to run the commands you wish you need to specify the complete path of jarvis.py file.