

Requirements

- **Functional requirements:**
 1. The user should be able to create a shed repository
 2. The user should be able to add files to under construction area (equivalent to git index)
 3. The user should be able to build the updates that was added to the under construction area(equivalent to git commit)
 4. The user should be able to view the status of the current repository
 5. The user should be able to see the difference between the working directory and the under construction area
 6. The user should be able to push the repository to a remote client (git as a beginning)
- **Usability requirements:**
 1. The user should be able to interact with the system through a colorful human friendly command line interface
 2. The system should provide a manual or help page for each command to guide the user
- **Reliability requirements:**
 1. The user should be able to restore the repo from the .shed folder if it was deleted
- **Performance requirements:**
 1. The system should use a fast hashing algorithm
 2. The system should use a fast light-weight compressing library that balances between file size and time taken to compress
- **Supportability requirements:**
 1. The system should be published to pypi so to be easily installed
 2. The system should support Github as a remote client