Tree

- blobs
- trees
- hash

+ addBlob()
+ addTree()
+ getHash()
+ getBlobs()
+ getTrees()
+ toJson()
+ saveToDisk()
+ fromJson()
+ fromDisk()
- generateHash()

-tree

Commit

- hash
- author
- message
- parentHash
- branch
- timestamp

+ Commit()
+ Commit()
+ getTreeHash()
+ getHash()
+ getAuthor()
+ getMessage()
+ getParentHash()
+ getBranch()
+ getTimestamp()
+ getTree()
+ toJson()
+ setHash()
+ setTimestamp()
+ fromJson()
- generateHash()

-lastCommit

Repository

- rootPath
- currentBranch
- branches
- stashFilePath
- tags
- tagsFilePath

+ Repository()
+ addFilesToTree()
+ saveCommitLocally()
+ getLastCommitHash()
+ loadCommitContent()
+ loadBlobContent()
+ createCommit()
+ sendCommitToServer()
+ createBranch()
+ switchBranch()
  and 28 more...
- loadCommitTree()
- mergeTrees()
- saveMergedContent()
- saveBranchInfo()
- loadBranchInfo()
- resolveConflict()
- saveStashInfo()
- loadStashInfo()
- restoreTree()
- restoreTree()
  and 7 more...

QObject

-repository

CompareWorker

- lastCommitHash
- secondLastCommitHash

+ CompareWorker()
+ process()
- loadCommitTree()
- compareTrees()