

## Draft Test Proposal

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Test 1: This tests whether initUser ran successfully and that getUser only returns this newly created user with the correct password

Bob = InitUser(username, password)  
userA, error = GetUser(username, correctPassword)  
Expect that no error will be thrown, and userA is same as Bob  
userB = GetUser(username, incorrectPassword)  
Expect an error to be thrown as the wrong password is provided

Test 2: This tests whether loadFile verifies a file exists

Alice = InitUser(username1, password1)  
Alice calls loadFile(name)  
Expect to throw an error since file does not exist

Test 3: This tests whether unauthorized users have access to a file

Alice = InitUser(username1, password1)  
Bob = InitUser(username2, password2)  
Alice calls storeFile(test, contents)  
Bob calls loadFile(test)  
Expect to throw an error since does not have access

Test 4: This tests whether users can be authorized and deauthorized to access a file

Alice = InitUser(username1, password1)  
Bob = InitUser(username2, password2)  
Alice calls storeFile(test, contents)  
Alice calls createInvitation(test, username2);  
Bob calls AcceptInvitation  
Bob calls loadFile(test)  
Expect the file contents to be loaded  
Alice calls revokeInvitation  
Bob calls loadFile(test)  
Expect to throw an error since Bob no longer has access

Test 5: This tests that a file content is the same across multiple sessions by having the original file creator modify a file

Alice = InitUser(username1, password1)  
Bob = InitUser(username2, password2)  
Alice calls storeFile(test, contents)  
Alice calls createInvitation(test, username2);  
Bob callsAcceptInvitation  
File1 = Bob calls loadFile(test)  
Alice calls appendFile  
File2 = Bob calls loadFile(test)  
Expect File1 and File2 to be different

Test 6: This tests whether an invitee can modify a file and its contents be reflected across all sessions

Alice = InitUser(username1, password1)  
Bob = InitUser(username2, password2)  
Alice calls storeFile(test, contents)  
File1 = Alice calls loadFile  
Alice calls createInvitation(test, username2);  
Bob callsAcceptInvitation  
Bobs calls storeFile(test, contents)  
File2 = Alice calls loadFile  
Expect File1 and File2 to be different