



What is Martus?

Martus is an open source project that allows individuals and groups who protect human rights and civil liberties work in environments where resources are scarce and adversaries often have the upper hand. Martus is a free, open source, secure information collection and management tool that empowers these rights activists to be stronger in their fight against injustice and abuse.

Where is Martus?

Martus is being currently maintained through it's parent company Benetech, while it has continued to stay with its open source roots by actively maintaining their source code distributed through the Github platform.

Why Martus?

We choose the Martus platform due to its simplicity being written entirely in Java, and there was good documentation of the overall project. The main deciding factor in choosing this platform came down to the support provided by Martus' parent company, Benetech. While the documentation on their website was dense, the over documentation in their source code was sparse at best.

Approach

The approach taken to develop our framework was based around the agile development process, in which we created deliverables every few weeks where we met specific deadlines in order to accomplish the task at hand. We broke a large problem down into smaller pieces, which help us significantly tackle and understand the problem when being an automated framework.

Accomplishments

Throughout this project we gained a great deal of experience on how real world development. This included working in a team environment and working with a consumer requirements. We were also able to construct a testing framework for a system which we did not build and had no prior knowledge about.

Results:

Test Case Number	Method	Input	Expected Output	Actual Output	Oracle Pass/Fail
01	isWeakPassword	password	true	true	pass
02	isWeakPassword	Testedpassword\$\$	false	false	pass
03	isWeakPassword	TestedPassword21	true	true	pass
04	validateUserNameAndPassword	TestUserName,TestPassword&&	NoError	NoError	pass
05	validateUserNameAndPassword	TestUserName,TestUserName	PasswordMatchedException	PasswordMatchedException	pass
06	validateUserNameAndPassword	TestUserName 1,TestUserName 1	PasswordMatchedException	PasswordMatchedException	pass
07	validateUserNameAndPassword	testUser, passwordTest_01	NoError	NoError	pass
08	validateUsernameAndPassword	testUser,test021	PasswordTooShortException	PasswordTooShortException	pass
09	getCombinedPassPhrase	testUser,test021	test021:testUser	test021:testUser	pass
10	getCombinedPassPhrase	testUser;	ArrayIndexOutOfBoundsException	ArrayIndexOutOfBoundsException	pass
11	getCombinedPassPhrase	.testPassCombo	testPassCombo:	testPassCombo:	pass
12	getCombinedPassPhrase	..:	:::	:::	fail
13	getCombinedPassPhrase	:::	:::	:::	pass
14	toStoredDateFormat	0	1970-01-01	1970-01-01	pass
15	toStoredDateFormat	3,11,29	0003-11-29	0003-11-29	pass
16	toStoredDateFormat	3,11	ArrayIndexOutOfBoundsException	ArrayIndexOutOfBoundsException	pass
17	toStoredDateFormat	9990,18,40	9991-07-10	9991-07-10	pass
18	toStoredDateFormat	-.:-	NumberFormatException	NumberFormatException	pass
19	getMartusFlexidateString	2003-01-05,2	20030105+2	20030105+2	pass
20	getMartusFlexidateString	100-05-20,2	NumberFormatException	NumberFormatException	pass
21	getMartusFlexidateString	0100-05-20,9999999999	NumberFormatException	NumberFormatException	pass
22	extractIsoDateFromStoredDate	1989-11-29	1989--1-1-	1989--1-1-	pass
23	extractIsoDateFromStoredDate	189-11-29	189--11--2	189--11--2	pass
24	extractIsoDateFromStoredDate	19981129	1998-11-29	1998-11-29	pass
25	extractIsoDateFromStoredDate	0031129	StringIndexOutOfBoundsException	StringIndexOutOfBoundsException	pass
26	isWeakPassword		true	EmptyArgument	fail