

## Chapter - 06 Testing

### 6.1 Test Plan

It was tried the best to make the test plan as realistic as possible tried to run these tests in the same way as an end-user use the system functionalities of the Test Automation Framework.

Due to high possibility of different configurations, it was essential to test against all possible different combinations.

Following table includes hopefully all possible test cases to make sure that the Test Automation Framework.

### 6.2 Prerequisites

Maven and JDK should be installed in the client machine.

maven-mecp-test-plugin should be installed in the client machine.

Target application (the application which is going to test) should be up and running.

### 6.3 Test Cases and Results of Testing

#### Developer's Functionality Testing

Test #	Test Case Description	Expected Result	Passed/Failed	Severity (H/M/L)	Comment
1	Release maven-mecp-test-plugin	Send correct version of the maven-mecp-test-plugin to the maven repository	Passed	H	
2	maven-mecp-test-plugin announcement e-mail	The e-mail with correct details of the relevant maven-mecp-test-plugin	Passed	M	
3	Release mecptest	Send correct	Passed	H	

	module	version of the mecp-test module to the maven repository			
4	Mecp-test module announcement e-mail	The e-mail with correct details of the relevant mecp-test module	Passed	M	

Table 6-1 Developer's Functionality Testing

### User's Functionality Testing

Test #	Test Case Description	Expected Result	Passed/Failed	Severity (H/M/L)	Comment
<b>Download Plugin</b>					
5	Download maven-mecp-test-plugin	Download and install the correct version of the maven-mecp-test-plugin in client machine	Passed	H	
<b>Execute Test Run</b>					
6	Execute against target application  Test Data: jmeter.config.protocol=http jmeter.config.targetserver=192.168.1.206 jmeter.config.portnumber=8680	Test Run against the configured application	Passed	H	
7	Check for the results in the output directory  Test Data: mecp.test.outputdir=c:/temp	Relevant results in the correct directory	Passed	H	
8	Execute Test Run with correct mecp-test module	Download correct version of the mecp-test module and execute Test	Passed	H	

	Test Data: mecp.test.usesnapshot=true mecp.test.version=1.0.4	Run			
9	Execute Test Run in “regression” mode  Test Data:  jmeter.config.testmode=regression jmeter.config.testmodules=morder	Execute all active regression test cases of related module(s).	Passed	H	
10	Execute Test Run in “load” mode  Test Data:  jmeter.config.testmode=load jmeter.config.testmodules=morder	Execute all active load test cases of related module(s).	Passed	H	
11	Execute Test Run in “custom” mode  Test Data:  jmeter.config.testmode=custom jmeter.config.testcases=mtravel_025	Execute given test case(s).	Passed	H	
12	Execute Test Run with many users  Test Data:  jmeter.config.users=2	Execute Test Run with simultaneous users.	Passed	H	
13	Execute Test Run with many iterations  Test Data:  jmeter.config.iterations=3	Execute same Test Run for several iterations.	Passed	H	
14	Execute with ramp up	According to test	Passed	H	

	time Test Data: jmeter.config.users=5 jmeter.config.rampup=10	data, 5 users start with 2 seconds delays.			
<b>View Test Map</b>					
15	View Test Map with correct mecp-test module Test Data: mecip.test.usesnapshot=true mecip.test.version=1.0.4	Download correct version of the mecp-test module and View Test Map	Passed	M	
16	View Test Map in “regression” mode Test Data: jmeter.config.testmode=regression jmeter.config.testmodules=morder	View all active regression test cases of related module(s).	Passed	M	
17	View Test Map in “load” mode Test Data: jmeter.config.testmode=load jmeter.config.testmodules=morder	View all active load test cases of related module(s).	Passed	M	
18	View Test Map in “custom” mode Test Data: jmeter.config.testmode=custom jmeter.config.testcases=mtravel_025	View given test case(s).	Passed	M	
<b>Reports</b>					
19	Test Analysis	Summery view of	Passed	M	

	Overview	the analysis report with correct data			
20	Test Analysis Detail View	Detail view of the each test case results with correct data.	Passed	M	
21	Test Analysis Failure Details	Failure details of the failed test cases with correct data.	Passed	M	

Table 6-2 User Functionality Testing

#### 6.4 Summery

This chapter is constructed on testing. All the required test cases are identified and the tests done and the results are discussed in this chapter.



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