

Data Mining of Digital Library Usage Data

Regression Test Package

Version: 2.0

TEAM 7

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Version Control

Date	Author	Changes	Version
4/9/05	Bo Lee	N/A	Initial Draft version
4/12/05	Bo Lee	<ul style="list-style-type: none">● Inserted Table #1 to section 4.	v. 1.1
4/19/05	Bo Lee	<ul style="list-style-type: none">● Revised all sections● Inserted tests for search and node information display	v. 1.2
4/26/05	Bo Lee	<ul style="list-style-type: none">● Revised all sections according to updated Test Plan and Cases version 4.0● Inserted test results to section 3.2	v. 2.0

1 Introduction

1.1 Introduction

This document guides the regression tests for the Data Mining of Digital Library Usage Data system developed by CSCI 577 team 7, and mainly for the future maintenance and support.

The tests depicted here are performed by the developers and IV&Vers during development, and can be done by the administrator after delivery. From IOC working set #1 source onward the regression tests are current for every release.

During the development, only those test cases for developed components are selected to performed, but all tests should be passed and validated before the final delivery of the system..

1.2 References

Team 7 website:

<http://seacliff.usc.edu/~team7b>

Test Plan and Cases v. 3.1:

http://seacliff.usc.edu/~team7b/2005.04.04/TPC_IOC1_S05b_T07_V3.1.pdf

Test Plan and Cases v. 4.0:

http://seacliff.usc.edu/~team7b/IOC/ioc2/TPC_IOC2_S05b_T07_V4.0.pdf

Test Procedure and Report for TPC v.3.1:

http://seacliff.usc.edu/~team7b/2005.04.04/TPR_IOC1_S05b_T07.pdf

Test Procedure and Report for TPC v.4.0:

http://seacliff.usc.edu/~team7b/IOC/ioc2/TPR_IOC2_S05b_T07_V1.2.pdf

1.3 Change Summary

Version	Major Change
1.1	<ul style="list-style-type: none"> Inserted Table 1: Regression test result during development as of IOC into section 4. Regression test results section.
1.2	<ul style="list-style-type: none"> Revised all sections Inserted tests for search and node information display.
2.0	<ul style="list-style-type: none"> Revised all sections to reflect the changes of Test Plan and Cases v. 4.0 Inserted test results to section 3.2.

2 Tests to Run

2.1 During development

The tests are selectively conducted to test functional components.

As of IOC, the tests below were conducted to test the functional components.

The Test Plan and Cases document has been changed greatly from version 3.1 to version 4.0. Refer Test Plan and Cases version 3.1 for the test identifiers of below tests. All these test identifiers were integrated into new test identifiers in version 4.0.

Test 1: TI-01 Usage data import test

TC-01-01 Well formed usage data import

Description: see TPC section 3.1.1

Preparation: see TPR section 3.1

Procedure: see TPR section 4.1

Test 2: TI-03 Analysis Report Generation Test

TC-03-03 Analysis Report Generation test – Algorithm Verification

Description: see TPC section 3.3.3

Preparation: see TPR section 3.3

Procedure: see TPR section 4.3

Test 3: TI-05 Open Analysis Report Test

TC-05-03 Open Analysis Report – Visualization

Description: see TPC section 3.5.3

Preparation: see TPR section 3.5

Procedure: see TPR section 4.5

Test 4: TI-06 Browse Analysis Report Test

TC-06-01 Browse Analysis Report Test– 3D view with left mouse drag

TC-06-02 Browse Analysis Report Test– 3D view with right mouse drag

Description: see TPC section 3.6.1, 3.6.2

Preparation: see TPR section 3.6

Procedure: see TPR section 4.6

2.2 Upon Final Delivery of the system

All test identifiers and included test cases can be conducted and should get passed.

The tests below are intended to be conducted sequentially.

All the test identifiers and included test cases can be conducted and should get passed.

The tests below are intended to be conducted sequentially.

Test 1: TI-01 Input log data import test

Description: see TPC section 3.1

Preparation: see TPR section 3.1

Procedure: see TPR section 4.1

Test 2: TI-02 Relationship Generation

Description: see TPC section 3.2

Preparation: see TPR section 3.2

Procedure: see TPR section 4.2

Test 3: TI-03 Relationship Clustering

Description: see TPC section 3.3

Preparation: see TPR section 3.3

Procedure: see TPR section 4.3

Test 4: TI-04 Visualization

Description: see TPC section 3.4

Preparation: see TPR section 3.4

Procedure: see TPR section 4.4

2.3 Upon change to requirements

Selected tests can be conducted on the parts where there was a change to a requirement. If the test(s) for the changed components were passed, all the tests in section 2.2 need to be performed for integration.

2.3.1 Input and Dataset Part

When there is a change to input interface or the input dataset format:

Test 1: TI-01 Input log data import test
Description: see TPC section 3.1
Preparation: see TPR section 3.1
Procedure: see TPR section 4.1

2.3.2 Relationship Generation Part

When there is a change to relationship generating algorithm or clustering method:

Test 1: TI-02 Relationship Generation
Description: see TPC section 3.2
Preparation: see TPR section 3.2
Procedure: see TPR section 4.2

2.3.3 Clustering Relationship

Test 1: TI-03 Relationship Clustering
Description: see TPC section 3.3
Preparation: see TPR section 3.3
Procedure: see TPR section 4.3

2.3.4 Visualization part

When there is a change to displaying the relationship tree of visualization part.

Test 1: TI-04 Visualization
TC-04-01 Displaying the relationship structure tree
Description: see TPC section 3.4, 3.4.4.1
Preparation: see TPR section 3.4
Procedure: see TPR section 4.4

2.3.5 Search part

When there is a change to search part

Test 1: TI-04 Visualization

TC-04-02 Search an object ID

Description: see TPC section 3.4, 3.4.4.2

Preparation: see TPR section 3.4

Procedure: see TPR section 4.4

2.3.6 Node Information Display part

When there is a change to node information display part

Test 1: TI-04 Visualization

TC-04-03 Display node information

Description: see TPC section 3.4, 3.4.4.3

Preparation: see TPR section 3.4

Procedure: see TPR section 4.4

2.3.7 Opening a webpage for an Object ID part

When there is a change to opening a webpage for an object ID

Test 1: TI-04 Visualization

TC-04-04 Open a webpage for an object ID

Description: see TPC section 3.4, 3.4.4.4

Preparation: see TPR section 3.4

Procedure: see TPR section 4.4

3 Regression Test Results

3.1 Result of the tests During Development

This is the result of the test described in section 2.1

Table 1: Regression test result during development as of IOC

Date	Tester	TI	TC	Pass/Fail	If Failed, Reason.
4/4/05	Kristine Guevara	TI-01	TC-01	F	It did not generate a matrix with the input of 100 items, but did with 500 items.
4/4/05	Kristine Guevara	TI-03	TC-03	P	
4/4/05	Kristine Guevara	TI-05	TC-03	P	
4/4/05	Kristine Guevara	TI-06	TC-01, TC-02	P P	
4/8/05	Marie Chi	TI-01	TC-01	P	

3.2 Result of the tests Upon final delivery of the system - partial

This is the partial result of the tests described in section 2.2.

The rest of the tests will be performed before the final delivery.

Table 2: Partial result of the tests upon final delivery of the system

Date	Tester	TI	TC	Pass/Fail	If Failed, Reason.
4/17/05	Bo Lee	TI-01	All included TCs	P	
4/17/05	Bo Lee	TI-02	All included TCs	P	

4 Glossary

TPC : Test Plan and Cases

TPR : Test Procedures and Results

TI : Test Identifier

TC: Test Case