Table 1: UNIT-01

Item	**Description**
Name	Command line interface (CLI) functionality
Test identifier	UNIT-01
Person responsible	Henrik Knutsen
Date of first execution Date of completion	October 24th November 16th
Execution steps	1. Run the program for every type of argument 2. Run the program without arguments

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Table 1 – *Continued from previous page*

Item	**Description**
Steps executed	1. (a) Run with -logloc logTest.txt (b) Run with -loglevel ALL (c) Run with -inDBLoc database.db (d) Run with -outDBLoc database.db (e) Run with -inWeightsLoc testWeights.cfg (f) Run with -outWeightsLoc testWeights.cfg (g) Run with -newDB false (h) Run with -p3pLocation ticketmaster1.xml (i) Run with -p3pDirLocation P3P (j) Run with -blanketAccept true (k) Run with -newPolicyLoc test.xml (l) Run with -userInit true (m) Run with -userResponse //TODO (n) Run with -cbrV bitmapDistanceWisOne, Reduction_KNN ,Conclusion_Simple, LearnAlgSimpler (o) Run with -userIO UserIO_Simple (p) Run with -policyDB PDatabase (q) Run with -genConfig test.cfg (r) Run with -NetworkRType NRCouchdb (s) Run with -NetworkROptions privacydb, false, http, vm-6113.idi.ntnu.no, 5948, PA, 1234 (t) Run with -confidenceLevel 1.5 (u) Run with -useNet true 2. Run the program without arguments

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Table 1 – *Continued from previous page*

Item	**Description**
Expected results	1. (a) Logfile is created at the specified filepath (b) loglevel is set to the specified value (c) inDBLoc is set to the specified value (d) outDBLoc is set to the specified value (e) inWeightsLoc is set to the specified filepath (f) outWeightsLoc is set to the specified filepath (g) newDB is set to false (h) p3pLocation is set to the specified file (i) p3pDirLocation is set to the specified filepath (j) recommendation is automatically accepted (k) newPolicyLoc is set to the specified filepath (l) userInit is set to the specified value (m) the specified action is appended to the policy (n) cbrV is set to the specified classes (o) userIO is set to the specified class (p) policyDB is set to the specified class (q) genConfig is set to the specified file. Values of the specified config file are loaded (r) NetworkRType is set to the specified class (s) NetworkROptions is set to the specified values (t) confidenceLevel is set to the specified value (u) useNet is set to the specified value 2. All the values are loaded from the config file

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Table 1 – *Continued from previous page*

Item	**Description**
Step results	1. (a) Logfile is created at the specified filepath (b) loglevel is set to ALL (c) inDBLoc is set to database.db (d) outDBLoc is set to database.db (e) inWeightsLoc is set to testWeights.cfg (f) outWeightsLoc is set to testWeights.cfg (g) newDB is set to false (h) p3pLocation is set to ticketmaster1.xml (i) p3pDirLocation is set to P3P (j) Recommendation is automatically accepted (k) newPolicyLoc is set to test.xml (l) userInit is set to true (m) userResponse — (n) cbrV is set to bitmapDistanceWisOne, Reduction_KNN, Conclusion_Simple, LearnAlgSimpler (o) userIO is set to UserIO_Simple (p) policyDB is set to the specified class (q) genConfig is set to test.cfg. Values in test.cfg are loaded (r) NetworkRType is set to NRCouchdb (s) NetworkROptions is set to privacydb, false, http, vm-6113.idi.ntnu.no, 5984, PA, 1234 (t) confidenceLevel is set to 1.5, recommendation is gives from (default) community database (u) useNet is set to true, networking is enabled 2. All the values are loaded from the default config file

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Table 1 – *Continued from previous page*

Item	**Description**
Test conclusion	1. (a) PASS (b) PASS (c) PASS (d) PASS (e) PASS (f) PASS (g) PASS (h) PASS (i) PASS (j) PASS (k) PASS (l) PASS (m) NO PASS (n) PASS (o) PASS (p) (NO) PASS (q) PASS (r) PASS (s) PASS (t) PASS (u) PASS 2. PASS Test not passed. 1M (and 1P) failed
Comments	-

Table 2: UNIT-02

Item	**Description**
Name	P3P parser
Test identifier	UNIT-02
Person responsible	Henrik Knutsen
Date of first execution Date of completion	October 24th November 7th
Execution steps	1. Run a P3P xml in the P3P parser and print the parsed fields and their values to console 2. Manually compare the printed fields and values with the contents of the P3P xml

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Table 2 – *Continued from previous page*

Item	**Description**
Steps executed	1. Test for barnesandnoble.com (a) barnesandnoble.xml is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 1(a) 2. Test for daduru.com (a) daduru.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 2(a) 3. Test for ssa.gov (a) ssa.gov is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 3(a) 4. Test for toysrus.com (a) toysrus.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 4(a) 5. Test for gunbroker.com (a) gunbroker.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 5(a) 6. Test for latimes.com (a) latimes.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 6(a) 7. Test for planedesire.com (a) planedesire.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 7(a) 8. Test for yahoo.com (a) yahoo.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 8(a) 9. Test for nextel.com (a) nextel.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 9(a) 10. Test for ebay.xml (a) ebay.com is parsed and printed to console (b) Contents of the xml is compared with to what was printed in step 10(a)

Table 2 – *Continued from previous page*

Item	**Description**
Expected results	1. The P3P xml is parsed successfully. It's content is printed to console 2. The printed output have the same fields, each having the same value as those in the xml

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Table 2 – *Continued from previous page*

Item	**Description**
Step results	1. Results for barnesandnoble.com (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 2. Results for daduru.com (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 3. Results for ssa.gov (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 4. Results for toysrus.com (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 5. Results for gunbroker.com (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 6. Results for latimes.com (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 7. Results for planedesire.com (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 8. Results for yahoo.com (a) The P3P xml is parsed successfully. It's content is printed to console (b) The printed output have the same fields, each having the same values as those in the xml 9. Results for nextel.com (a) The P3P xml is parsed successfully. It's content is

Table 2 – *Continued from previous page*

Item	**Description**
Test conclusion	1. PASS 2. PASS 3. PASS 4. PASS 5. PASS 6. PASS 7. PASS 8. PASS 9. PASS 10. PASS Test passed
Comments	As mentioned in the test plan, it is not guaranteed that the parser is successfully parsing every possible field of every possible policy even though it has passed this test

Table 3: UNIT-03

Item	**Description**
Name	Local database
Test identifier	UNIT-03
Person responsible	Henrik Knutsen
Date of first execution	October 24th
Date of completion	October 24th
Execution steps	1. Write policy A to the local database 2. Write policy B to the local database 3. Read and print policy A from the local database 4. Read and print policy A from the local database 5. Compare the written policy A and the read policy A 6. Compare the written policy B and the read policy B
Steps executed	1. Program is started writing policy A to an empty database 2. Accept recommendation and chose to save the new action and policy (policy B) 3. Print the new database after policy B was added (step 2) 4. Done in step 3 5. The contents of policy A that was written in step 1 is compared to what was printed of policy A in step 3 6. The contents of policy B that was written in step 2 is compared to what was printed of policy B in step 3

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Table 3 – *Continued from previous page*

Item	**Description**
Expected results	1. Policy A is successfully written to the database file 2. Policy B is successfully written to the database file 3. Policy A is successfully read from the database file and printed 4. Policy B is successfully read from the database file and printed 5. The written policy A and the read policy A are identical. They both have the same fields, with the same values 6. The written policy B and the read policy B are identical. They both have the same fields, with the same values
Step results	1. Policy A was successfully written to the database file 2. Policy B was successfully written to the database file 3. Database was successfully printed 4. Same as step 3 5. The contents of the loaded policy A and printed contents of policy A are identical 6. The contents of the loaded policy B and printed contents of policy B are identical

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Table 3 – *Continued from previous page*

Item	**Description**
Test conclusion	1. PASS 2. PASS 3. PASS 4. PASS 5. PASS 6. PASS Test passed
Comments	-

Table 4: UNIT-04

Item	**Description**
Name	Graphical user interface (GUI) functionality
Test identifier	UNIT-04
Person responsible	Henrik Knutsen
Date of execution	October 29th
Date of completion	November ??th
Execution steps	1. Run the program using the GUI 2. Test every option in the menu bar 3. Test every button in the configuration menu 4. Test every scroll bar 5. Resize the window

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Table 4 – *Continued from previous page*

Item	**Description**
Steps executed	1. Program started with graphical user interface 2. Chose every option in the menu bar (a) Clicked ”Configuration” (b) Clicked ”Reload Database” (c) Clicked ”Run” (d) Clicked ”Exit” 3. Clicked every button in the configuration menu (a) a (b) b (c) c 4. Used every scroll bar (a) Used scroll bar for scrolling up/down in database pane (b) Used scroll bar for scrolling left/right in database pane (c) Used scroll bar for scrolling up/down in new policy pane (d) Used scroll bar for scrolling left/right in new policy pane (e) Used scroll bar for scrolling up/down in output pane 5. Attempted to resize the window

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Table 4 – *Continued from previous page*

Item	**Description**
Expected results	1. The program starts and loads the graphical user interface 2. (a) Menu for setting config values is opened (b) The specified database is loaded (c) The program gives a popup with a recommendation for the selected policy based on the history in the specified database (d) Program closes 3. (a) a (b) b (c) c 4. (a) The scroll bar scrolls through the list, up and down, from end to end, successfully (b) The scroll bar scrolls through the list, up and down, from end to end, successfully (c) The scroll bar scrolls through the list, up and down, from end to end, successfully (d) The scroll bar scrolls through the list, up and down, from end to end, successfully (e) The scroll bar scrolls through the list, up and down, from end to end, successfully 5. Window can be resized without having elements of the GUI overlapping. The elements and panes scales with the main window

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Table 4 – *Continued from previous page*

Item	**Description**
Step results	1. The program starts and loads the graphical user interface 2. (a) Menu for setting config values is not opened (b) The specified database is loaded (c) The program gives a popup with a recommendation for the selected policy based on the history in the specified database (d) Program closes 3. (a) a (b) b (c) c 4. (a) The scroll bar appears when conent of the pane is too big to fit, and it scrolls through the list, up and down, from end to end, successfully (b) The scroll bar appears when conent of the pane is too big to fit, and it scrolls through the list, left and right, from end to end, successfully (c) The scroll bar appears when conent of the pane is too big to fit, and it scrolls through the list, up and down, from end to end, successfully (d) The scroll bar appears when conent of the pane is too big to fit, and it scrolls through the list, left and right, from end to end, successfully (e) The scroll bar appears when conent of the pane is too big to fit, and it scrolls through the list, up and down, from end to end, successfully 5. The window can be resized. The panes are scaling with the main window

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Table 4 – *Continued from previous page*

Item	**Description**
Test conclusion	1. PASS 2. (a) NO PASS (b) PASS (c) PASS (d) PASS 3. (a) NO PASS (b) NO PASS (c) NO PASS 4. (a) PASS (b) PASS (c) PASS (d) PASS (e) PASS 5. PASS Test not passed. 2A and 3 failed
Comments	-

Table 5: UNIT-05

Item	**Description**
Name	Algorithm classification
Test identifier	UNIT-05
Person responsible	Henrik Knutsen & Dimitry Kongevold
Date of execution Date of completion	October 30th November 1st
Execution steps	1. Load a set of policies into the database file 2. Manually calculate and write down the distances between the single policy and each of the policies in the history 3. Run the distance algorithm on a single policy and the history and compare the distances that are returned by the algorithm with the manually calculated distances from step 2 4. Manually find the k policies with the lowest distances 5. Run the reduction algorithm with necessary input to find the k nearest policies and compare the k policies returned by the reduction algorithm with those found in step 4 6. Run the conclusion algorithm and verify the results returned by the algorithm ???

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Table 5 – *Continued from previous page*

Item	**Description**
Steps executed	1. Created a test domain by loading six policies into the history 2. Distances between the policy to be classified and each of the six policies were calculated manually and the results were inserted into a table 3. A JUnit test testReduction_KNN was created. This test was used to assert that the six values returned by the algorithm are the same as those calculated manually in step 2 4. Found the k nearest policies from what was calculated in step 2 5. A JUnit test testReduction_KNN was created. This test was used to assert that the reduction algorithm returns the same k nearest policies as those that was found manually in step 4 6. Created a JUnit test testReduction_KNN ???
Expected results	1. The policies are added to the database file 2. The six distances are obtained 3. The algorithm returns the same distances as those found in step 2 4. The k policies are obtained 5. The algorithm returns the same k policies as those found in step 4 6. ??

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Table 5 – *Continued from previous page*

Item	**Description**
Step results	1. The policies are added to the database file 2. The six distances are obtained 3. The JUnit is successful 4. The k policies are obtained 5. The JUnit test is successful 6. The JUnit test is not run
Test conclusion	1. PASS 2. PASS 3. PASS 4. PASS 5. PASS 6. NO PASS Test not passed. 6 failed
Comments	As mentioned in the test plan, it is not guaranteed that the algorithm will classify correctly for every possible combination of policy and database history even though it has passed this test

Table 6: UNIT-06

Item	**Description**
Name	Algorithm learning
Test identifier	UNIT-06
Person responsible	Henrik Knutsen & Neshahavan Karunakaran
Date of execution Date of completion	November 4th November 12th
Execution steps	1. Make a set of policies and load the set into the history 2. Read the weights from the weights file 3. Run the classification and learning algorithms on the policy to be classified and the history, with the weights from step 2 4. Read the weights from the weights file 5. Compare the contents of the weights files obtained in steps 2 and 4
Steps executed	1. Program is started with a set of policies used to build a history 2. Contents of the weights file is written down 3. A JUnit test LearnAlgSimplerTest is created. The test runs the classification and learning algortihms on the policy to be classified and the history 4. The test loads the weights from the weights file 5. The test compares the weights loaded in step 4 with the values that was written down in step 2

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Table 6 – *Continued from previous page*

Item	**Description**
Expected results	1. The policies are loaded into the history successfully 2. The weights are written down 3. The classification and learning algorithm runs successfully on the policy to be classified and the history 4. The weights are loaded 5. The weights loaded in step 4 are different from the weights written down in step 2
Step results	1. The policies are loaded into the history successfully 2. The weights are written down 3. The JUnit test runs the classification and learning algorithm successfully 4. The JUnit test loads the weights file successfully 5. The JUnit test confirms that the values in the weights file have changed
Test conclusion	1. PASS 2. PASS 3. PASS 4. PASS 5. PASS Test passed
Comments	Some changes are needed for this test to run. These changes are mentioned in the test class

Table 7: UNIT-07

Item	**Description**
Name	Interaction with community database
Test identifier	UNIT-07
Person responsible	Henrik Knutsen
Date of execution Date of completion	November 14th November 14th
Execution steps	1. a
Steps executed	1. b
Expected results	1. c
Step results	1. d
Test conclusion	1. d Test failed