

System Test Plan: PatientRecords program

Introduction: The text in bold in the **Description** column represents the test inputs.

Test Files: (List each test file below.)

Test ID	Description	Expected Results	Actual Results
testTooFewArgs Author: Dr. Balik	\$ java -cp bin PatientRecords	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.
testTooManyArgs Author: Dr. Balik	\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 25 10	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.
testNonintegerMax Author: Dr. Balik	\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt twenty	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.
testNegativeMax Author: Dr. Balik	\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt -15	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.	Usage: java -cp bin PatientRecords infile outfile max_patients Program quits.
testInputFileAccess Author: Dr. Balik	\$ java -cp bin PatientRecords test-files/notafile.txt test-files/output.txt 25	Unable to access input file: test-files/notafile.txt Program quits.	Unable to access input file: test-files/notafile.txt
testOutputFileCreation Author: Dr. Balik	\$ java -cp bin PatientRecords test-files/patients.txt notadirectory/updatedPatients.txt 150	Cannot create output file Program quits.	Cannot create output file

Test ID	Description	Expected Results	Actual Results
testOptionsMenu Author: Dr. Balik	Delete the test-files/updatedPatients.txt, if it exists \$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 5 		

Test ID	Description	Expected Results	Actual Results																																																																						
testMultipleActions	Delete the test-files/updatedPatients.txt, if it exists	<table><tr><th>ID</th><th>NAME</th><th>BIRTHDATE</th><th>HT</th><th>WT</th><th>T</th><th>BP</th></tr><tr><td>1001</td><td>Mary Beth Jones</td><td>04/21/1972</td><td>62</td><td>135</td><td>102.40</td><td>120/90</td></tr><tr><td>1002</td><td>Thomas A. Berry</td><td>06/19/1967</td><td>73</td><td>198</td><td>98.60</td><td>130/80</td></tr><tr><td>1003</td><td>Tricia Patel</td><td>11/18/1956</td><td>64</td><td>105</td><td>100.20</td><td>120/80</td></tr><tr><td>1004</td><td>Mary Jones</td><td>03/04/1999</td><td>67</td><td>120</td><td>99.20</td><td>120/80</td></tr></table>	ID	NAME	BIRTHDATE	HT	WT	T	BP	1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90	1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80	1003	Tricia Patel	11/18/1956	64	105	100.20	120/80	1004	Mary Jones	03/04/1999	67	120	99.20	120/80	<table><tr><th>ID</th><th>NAME</th><th>BIRTHDATE</th><th>HT</th><th>WT</th><th>T</th><th>BP</th></tr><tr><td>1001</td><td>Mary Beth Jones</td><td>04/21/1972</td><td>62</td><td>135</td><td>102.40</td><td>120/90</td></tr><tr><td>1002</td><td>Thomas A. Berry</td><td>06/19/1967</td><td>73</td><td>198</td><td>98.60</td><td>130/80</td></tr><tr><td>1003</td><td>Tricia Patel</td><td>11/18/1956</td><td>64</td><td>105</td><td>100.20</td><td>120/80</td></tr><tr><td>1004</td><td>Mary Jones</td><td>03/04/1999</td><td>67</td><td>120</td><td>99.20</td><td>120/80</td></tr></table>	ID	NAME	BIRTHDATE	HT	WT	T	BP	1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90	1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80	1003	Tricia Patel	11/18/1956	64	105	100.20	120/80	1004	Mary Jones	03/04/1999	67	120	99.20	120/80
ID	NAME	BIRTHDATE	HT	WT	T	BP																																																																			
1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90																																																																			
1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80																																																																			
1003	Tricia Patel	11/18/1956	64	105	100.20	120/80																																																																			
1004	Mary Jones	03/04/1999	67	120	99.20	120/80																																																																			
ID	NAME	BIRTHDATE	HT	WT	T	BP																																																																			
1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90																																																																			
1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80																																																																			
1003	Tricia Patel	11/18/1956	64	105	100.20	120/80																																																																			
1004	Mary Jones	03/04/1999	67	120	99.20	120/80																																																																			
Author: Dr. Balik	<pre>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 5 Patient Records Program - Please choose an option. L - List patients U - Update patient A - Add patient Q - Quit Option: A Name: Mary Jones Birthdate: 03/04/1999 Height: 67 Weight: 120 Temperature: 99.2 Blood pressure: 120/80 Successful addition Patient Records Program - Please choose an option. L - List patients U - Update patient A - Add patient Q - Quit Option: B Invalid option Patient Records Program - Please choose an option. L - List patients U - Update patient A - Add patient Q - Quit</pre>	<pre>Patient Records Program - Please choose an option. L - List patients U - Update patient A - Add patient Q - Quit Option:</pre>	<pre>Patient Records Program - Please choose an option. L - List patients U - Update patient A - Add patient Q - Quit Option:</pre>																																																																						

	Option: L		
Test ID	Description	Expected Results	Actual Results
testNoOverwrite	Check timestamp for test-files/existingfile.txt	Program quits.	Program quits.
Author: Dr. Balik	<pre>\$ java -cp bin PatientRecords test-files/patients.txt test-files/existingfile.txt 5</pre> <p>test-files/existingfile.txt exists - OK to overwrite (y,n)?: no</p>	<pre>Timestamp for test-files/existingfile.txt has not changed.</pre>	<pre>Timestamp for test-files/existingfile.txt has not changed.</pre>
testOverwrite	Check timestamp for test-files/existingfile.txt	Program quits.	Program quits.
Author: Dr. Balik	<pre>\$ java -cp bin PatientRecords test-files/patients.txt test-files/existingfile.txt 5</pre> <p>test-files/existingfile.txt exists - OK to overwrite (y,n)?: yes</p> <p>Menu is displayed</p> <p>Option: q</p>	<pre>Timestamp for test-files/existingfile.txt has changed.</pre>	<pre>Timestamp for test-files/existingfile.txt has not changed.</pre>
testListWithEmptyInputFile	Delete test-files/updatedNopatients.txt, if it exists	<pre>ID NAME BIRTHDATE HT WT T BP</pre>	<pre>ID NAME BIRTHDATE HT WT T BP</pre>
Author: Dr. Balik	<pre>\$ java -cp bin PatientRecords test-files/nopatients.txt updatedNopatients.txt 5</pre> <p>Patient Records Program - Please choose an option.</p> <p>L - List patients U - Update patient A - Add patient Q - Quit</p> <p>Option: l</p>	<pre>Menu is displayed.</pre>	<pre>Menu is displayed.</pre>

Test ID	Description	Expected Results	Actual Results														
testAddAndListWithEmptyInputFile Author: Dr. Balik	<p>Delete test-files/updatedNopatients.txt, if it exists</p> <p>\$ java -cp bin PatientRecords test-files/nopatients.txt test-files/updatedNopatients.txt 5</p> <p>Menu is displayed</p> <p>Option: A Name: John Smith Birthdate: 02/20/1998 Height: 76 Weight: 200 Temperature: 100.4 Blood pressure: 140/90</p> <p>Successful addition</p> <p>Patient Records Program - Please choose an option.</p> <p>L - List patients U - Update patient A - Add patient Q - Quit</p> <p>Option: 1</p>	<table><tr><td>ID</td><td>NAME</td><td>BIRTHDATE</td><td>HT</td><td>WT</td><td>T</td><td>BP</td></tr><tr><td>1001</td><td>John Smith</td><td>02/20/1998</td><td>76</td><td>200</td><td>100.40</td><td>140/90</td></tr></table>	ID	NAME	BIRTHDATE	HT	WT	T	BP	1001	John Smith	02/20/1998	76	200	100.40	140/90	
ID	NAME	BIRTHDATE	HT	WT	T	BP											
1001	John Smith	02/20/1998	76	200	100.40	140/90											

Test ID	Description	Expected Results	
testUpdatePatientInvalidId Author: Riya Gunda	Delete test-files/exp_updatedNewpatients.txt \$ java -cp bin PatientRecords test-files/newpatients.txt test-files/exp_updatedNewpatients.txt 5 Menu is displayed Option: u Patient id: 5001	Invalid id	Invalid id
testUpdatePatientNonIntegerWeight Author: Riya Gunda	Delete test-files/exp_updatedNewpatients.txt \$ java -cp bin PatientRecords test-files/newpatients.txt test-files/exp_updatedNewpatients.txt 5 Menu is displayed Option: u Patient id: 1001 Height: 165 Weight: 123.48	Invalid value	Invalid value
testAddPatientNonDoubleTemperature Author: Riya Gunda	Delete test-files/exp_updatedNewpatients.txt \$ java -cp bin PatientRecords test-files/newpatients.txt test-files/exp_updatedNewpatients.txt 5 Menu is displayed Option: a Name: Riya Gunda Birthdate: 05/05/2005 Height: 165 Weight: 123	Invalid value	Invalid value

	Temperature: rgr		
testAddPatientNoRoomForNewPatient Author: Riya Gunda	Delete test-files/exp_updatedNewpatients.txt \$ java -cp bin PatientRecords test-files/newpatients.txt test-files/exp_updatedNewpatients.txt 5 Menu is displayed Option: a	Cannot add new patient	Cannot add new patient
testSuccessfulUpdateAndAdd Author: Riya Gunda	Delete test-files/exp_updatedNewpatients.txt \$ java -cp bin PatientRecords test-files/newpatients.txt test-files/exp_updatedNewpatients.txt 5 Menu is displayed Option: u Patient id: 1002 Height: 165 Weight: 123 Temperature: 98.4 Blood pressure: 128/80 Successful update Menu is displayed Option: a Name: Saanvi Gunda Birthdate: 06/26/2008 Height: 167 Weight: 105 Temperature: 99 Blood pressure: 120/80	updatedNewpatients.txt is the same as exp_updatedNewpatients.txt	updatedNewpatients.txt is the same as exp_updatedNewpatients.txt

	Successful addition Menu is displayed Option: q Program exits		
Test ID	Description	Expected Results	Actual Results
testInvalidInputMissingValueOnLine Author: Riya Gunda	Delete test-files/output.txt, if it exists \$ java -cp bin PatientRecords test-files/missingValueOnLine.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputExtraValueOnLine Author: Riya Gunda	Delete test-files/output.txt, if it exists \$ java -cp bin PatientRecords test-files/extraValueOnLine.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputNonintegerHeight Author: Riya Gunda	Delete test-files/output.txt, if it exists \$ java -cp bin PatientRecords test-files/nonintegerHeight.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputInvalidId Author: Riya Gunda	Delete test-files/output.txt, if it exists \$ java -cp bin PatientRecords test-files/invalidId.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputTwoLinesWithId1002 Author: Riya Gunda	Delete test-files/output.txt, if it exists \$ java -cp bin PatientRecords test-files/twoLinesWithId1002.txt test-files/output.txt 5	Invalid input file	Invalid input file