System Test Plan: Match Game program

Introduction: Each test case below assumes that the cards directory contains the card image files The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C.

Test ID	Description	Expected Results	Actual Results
testInitialGUI Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t (Ctrl+C to stop execution)	GUI entitled "Match Game" is displayed with 4 rows and 13 cols of greyed-out cards, EASY GAME, HARD GAME, and QUIT buttons. Status: Welcome to the Match Game choose an Easy or Hard Game! Correct Guesses: 0 Total Guesses: 0 Average: <blank></blank>	GUI entitled "Match Game" is displayed with 4 rows and 13 cols of greyed-out cards, EASY GAME, HARD GAME, and QUIT buttons. Status: Welcome to the Match Game choose an Easy or Hard Game! Correct Guesses: 0 Total Guesses: 0 Average: <black></black>
testEasyGame Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on EASY GAME button (Ctrl+C to stop execution)	GUI displays 4 rows and 13 cols of white cards. Status: Easy Game match cards with same value!	GUI displays 4 rows and 13 cols of white cards. Status: Easy Game match cards with same value!

testHardGame Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button (Ctrl+C to stop execution)	GUI displays 4 rows and 13 cols of white card buttons. Status: Hard Game match cards with same value and color!	GUI displays 4 rows and 13 cols of white card buttons. Status: Hard Game match cards with same value and color!
testQuit Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on QUIT button	GUI closes	GUI closes
testEasyGameMatch Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on EASY GAME button Click on card in row 0, col 0 Click on card in row 1, col 0	GUI displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00	GUI displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00
testHardGameNotMat ch Author: Dr. Balik	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button Click on card in row 0, col 0 Click on card in row 1, col 0	GUI briefly displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 and then redisplays white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00	GUI briefly displays 2 of clubs at row 0, col 0 2 of diamonds at row 1, col 0 and then redisplays white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00

testEasyGameNotMatch Author: Riya Gunda	\$ java -cp bin MatchGameGUI -t Click on EASY GAME button Click on card in row 0, col 0 Click on card in row 1, col 1	GUI displays 2 of clubs at row 0, col 0 3 of diamonds at row 1, col 0 and then <i>redisplays</i> white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00	GUI displays 2 of clubs at row 0, col 0 3 of diamonds at row 1, col 0 and then redisplays white cards at the same positions Correct Guesses: 0 Total Guesses: 1 Average: 0.00
testHardGameMatch Author: Riya Gunda	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button Click on card in row 0, col 0 Click on card in row 3, col 0	GUI briefly displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00	GUI briefly displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00
testHardGameMatchA ndNotMatch Author: Riya Gunda	\$ java -cp bin MatchGameGUI -t Click on HARD GAME button Click on card in row 0, col 0 Click on card in row 3, col 0 Click on card in row 1, col 0 Click on card in row 3, col 5	GUI briefly displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00 2 of clubs at row 0, col 0 7 of spades at row 3, col 0 and then redisplays white cards at the same positions Correct Guesses: 1 Total Guesses: 2 Average: 0.500	GUI briefly displays 2 of clubs at row 0, col 0 2 of spades at row 3, col 0 Correct Guesses: 1 Total Guesses: 1 Average: 1.00 2 of clubs at row 0, col 0 7 of spades at row 3, col 0 and then redisplays white cards at the same positions Correct Guesses: 1 Total Guesses: 2 Average: 0.500

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testEasyGameThreeNo	\$ java -cp bin MatchGameGUI -t	GUI displays	GUI displays
nMatchesOneMatch	Click on EASY GAME button	2 of clubs at row 0, col 0	2 of clubs at row 0, col 0
		3 of diamonds at row 1, col 0	3 of diamonds at row 1, col 0
	Click on card in row 0, col 0	and then <i>redisplays</i> white	and then <i>redisplays</i> white cards at the
	Click on card in row 1, col 1	cards at the same positions	same positions
		Correct Guesses: 0	Correct Guesses: 0
	Click on card in row 0, col 5	Total Guesses: 1	Total Guesses: 1
	Click on card in row 3, col 1	Average: 0.00	Average: 0.00
	Click on card in row 2, col 10	7 of clubs at row 0, col 5	7 of clubs at row 0, col 5
	Click on card in row 1, col 3	3 of spades at row 3, col 1	3 of spades at row 3, col 1
		and then <i>redisplays</i> white	and then redisplays white cards at the
	Click on card in row 0, col 6	cards at the same positions	same positions
	Click on card in row 1, col 6	Correct Guesses: 0	Correct Guesses: 0
		Total Guesses: 2	Total Guesses: 2
		Average: 0.00	Average: 0.00
		Q of hearts at row 1, col 10	Q of hearts at row 1, col 10
		5 of diamonds at row 1, col 3	5 of diamonds at row 1, col 3
		and then <i>redisplays</i> white	and then <i>redisplays</i> white cards at the
		cards at the same positions	same positions
		Correct Guesses: 0	Correct Guesses: 0
		Total Guesses: 3	Total Guesses: 3
		Average: 0.00	Average: 0.00
		8 of clubs at row 0, col 6	8 of clubs at row 0, col 6
		8 of diamonds at row 1, col 6	8 of diamonds at row 1, col 6
		Correct Guesses: 1	Correct Guesses: 1
		Total Guesses: 4	Total Guesses: 4
		Average: 0.250	Average: 0.250

testFullGridEndGameE asy	\$ java - cp bin MatchGameGUI -t Click on card in row 0, col 0 Click on card in row 1, col 0	GUI displays Correct Guesses: 26 Total Guesses: 26 Average: 1.00	GUI displays Correct Guesses: 26 Total Guesses: 26 Average: 1.00
	Click on card in row 2, col 0 Click on card in row 3, col 0	Game over!	Game over!
	Click on card in row 0, col 1 Click on card in row 1, col 1		
	Click on card in row 2, col 1 Click on card in row 3, col 1 Click on card in row 0, col 12 Click on card in row 1, col 12		