PROJECT 1

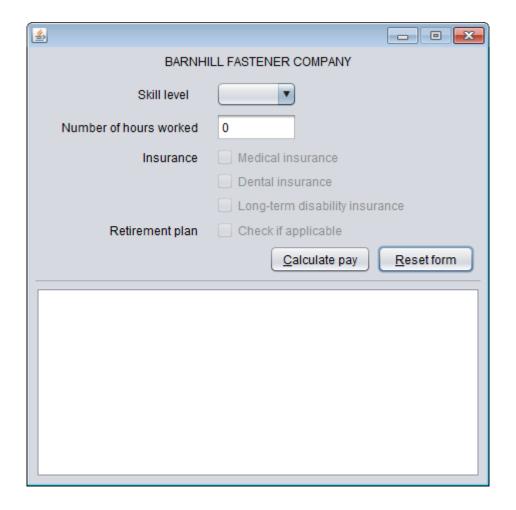
Cluster 4

Testing and Documentation

TEST REPORT

Submitted by

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Initial state of the program

The words "initial state" to be used in this test report refers to the very first state of the components of the program: such as their enabled or disabled state, checked or unchecked state, and initial text values when the program opens.

As depicted in the image above, the following are the initial state of the components:

- Skill level combo box selected index is –1 or null
- Number of hours worked text box Number "0" as an initial text value
- Medical insurance checkbox disabled and unchecked
- Dental insurance checkbox disabled and unchecked
- Long-term disability insurance checkbox disabled and unchecked
- Retirement plan checkbox disabled and unchecked
- Display pay calculation text area null texts

TEST CASE IDENTIFICATION					
Title	TEST_CASE_01				
Objective or description	User attempts to click "Calculate pay" button, without changing the state of the components, or program by default in all means.				
No. of test steps or conditions	No. of test steps or Cumulative hours required 1				

	TEST CASE SETUP / PREPARATION / CONDITIONS					
No.	Setup description					
1	The application must be installed and has been opened.					
2	All components of the application must be in their initial state.					

	TEST CASE OVERVIEW AND TEST STEPS					
Step No.	Step description	Component/input	Expected results	Actual results	Status (Passed or Failed)	
		skillLevel index = -1				
1	Click "Calculate pay" button.	hoursWorked = 0	"Number of hours should be between 1.00 and 168.00 inclusive."	"Number of hours should be between 1.00 and 168.00 inclusive."	Passed	

TEST CASE IDENTIFICATION					
Title	Title TEST_CASE_02				
Objective or description	User enters number of hours worked, and then clicks "Calculate pay" button, with skill level is left unchanged to initial state.				
No. of test steps or conditions	No. of test steps or 2 Cumulative hours 10:05 Hours required 10:01				

	TEST CASE SETUP / PREPARATION / CONDITIONS
No.	Setup description
1	The application must be installed and has been opened.
2	All components of the application must be in their initial state.

	TEST CASE OVERVIEW AND TEST STEPS					
Step No.	Step description	Component/input	Expected results	Actual results	Status (Passed or Failed)	
1	Enter number of hours worked; e.g. 30	hoursWorked = 30	Program accepts the input.	Program accepts the input.	Passed	
2	Click "Calculate pay" button.	skillLevel index = -1	Program must display an error message: "Please select a skill level."	Program displays an error message: "Please select a skill level."	Passed	

TEST CASE IDENTIFICATION					
Title	TEST_CA	TEST_CASE_03			
Objective or description	User enter	User enters details for Skill Level 1, with valid regular hours worked.			
No. of test steps or conditions	Cumulative hours required to perform test Cumulative hours required to perform test 0:02				

	TEST CASE SETUP / PREPARATION / CONDITIONS					
No.	Setup description					
1	The application must be installed and has been opened.					
2	All components of the application must be in their initial state.					

	TI	EST CASE OVERVIEV	V AND TEST STEPS	S	
Step No.	Step description	Component affected or data value	Expected results	Actual results	Status (Passed or Failed)
		skillLevel index = 0	Level 1 must be selected.	Level 1 is selected.	Passed
		Medical insurance checkbox			Passed
1	Select "Level 1" for Skill Level.	Dental insurance checkbox	Must be in unchecked and	Component is in unchecked and	Passed
		Long-term disability insurance checkbox	disabled state.	disabled state.	Passed
		Retirement plan checkbox			Passed
2	Enter number of hours worked; e.g. 30	hoursWorked = 30	Program accepts the input.	Program accepts the input.	Passed
		n/a	Pay breakdown calculation must be displayed in the text area.	Pay breakdown calculation is displayed in the text area.	Passed
		Hours worked	30:00	30:00	Passed
	Click "Calculate pay"	Hourly pay rate	\$ 19.00	\$ 19.00	Passed
3	button.	Regular pay (30:00)	\$ 570.00	\$ 570.00	Passed
		Overtime pay (00:00)	\$ 0.00	\$ 0.00	Passed
		Gross pay	\$ 570.00	\$ 570.00	Passed
		Total deduction	\$ 0.00	\$ 0.00	Passed
		Net pay	\$ 570.00	\$ 570.00	Passed
		Superannuation	\$ 0.00	\$ 0.00	Passed

TEST CASE IDENTIFICATION						
Title	TEST_CA	TEST_CASE_04				
Objective or description	User enter	User enters details for Skill Level 1, with valid overtime hours worked.				
No. of test steps or conditions	Cumulative hours required to to write test case Cumulative hours required to perform test 0:02					

	TEST CASE SETUP / PREPARATION / CONDITIONS
No.	Setup description
1	The application must be installed and has been opened.
2	All components of the application must be in their initial state.

	T	EST CASE OVERVIEV	W AND TEST STEPS	S	
Step No.	Step description	Component affected or data value	Expected results	Actual results	Status (Passed or Failed)
		skillLevel index = 0	Level 1 must be selected.	Level 1 is selected.	Passed
		Medical insurance checkbox			Passed
1	Select "Level 1" for Skill Level.	Dental insurance checkbox	Must be in	Component is in	Passed
		Long-term disability insurance checkbox	unchecked and disabled state.	unchecked and disabled state.	Passed
		Retirement plan checkbox			Passed
2	Enter number of hours worked; e.g. 50	hoursWorked = 50	Program accepts the input.	Program accepts the input.	Passed
		n/a	Pay breakdown calculation must be displayed in the text area.	Pay breakdown calculation is displayed in the text area.	Passed
		Hours worked	30:00	30:00	Passed
	Click "Calculate pay"	Hourly pay rate	\$ 19.00	\$ 19.00	Passed
3	button.	Regular pay (40:00)	\$ 760.00	\$ 760.00	Passed
		Overtime pay (10:00)	\$ 285.00	\$ 285.00	Passed
		Gross pay	\$ 1,045.00	\$ 1,045.00	Passed
		Total deduction	\$ 0.00	\$ 0.00	Passed
		Net pay	\$ 1,045.00	\$ 1,045.00	Passed
		Superannuation	\$ 0.00	\$ 0.00	Passed

			TEST CASE IDEN	TIFICATION				
Title		TEST_CA		ITITICATION				
Objective or		User enters details for Skill Level 2, with valid regular hours worked.						
descr	iption	User ente		z, with valid regular no	ours worked.			
No. of condi	f test steps or tions	6	Cumulative hours required to write test case	0:10	Hours required to perform test	0:05		
		TEST	CASE SETUP / PREPA	RATION / CONDIT	IONS			
No.			Setup d	lescription				
1	The application n	nust be inst	alled and has been opened	d.				
2	All components of	of the applic	cation must be in their ini	tial state.				
		T	EST CASE OVERVIEV	V AND TEST STEPS	\mathbf{S}			
Step No.	Step descri	ption	Component affected or data value	Expected results	Actual results	Status (Passed or Failed)		
			skillLevel index = 1	Level 2 must be selected.	Level 2 is selected.	Passed		
			Medical insurance checkbox	Must be in	Actual results	Passed		
1	Select "Level 2" Level.	for Skill	Dental insurance checkbox	unchecked and enabled state.	unchecked and	Passed		
	Level.		Long-term disability insurance checkbox	chabled state.		Passed		
			Retirement plan checkbox	Must be in unchecked and disabled state.	unchecked and	Passed		
2	Enter number of worked; e.g. 30	hours	hoursWorked = 30	Program accepts the input.		Passed		
3	Tick medical insucheckbox.	ırance	Medical insurance checkbox			Passed		
4	Tick dental insura	ance	Dental insurance checkbox	Must be in checked state.	Component is in checked state.	Passed		
5	Tick long-term di insurance checkb		Long-term disability insurance checkbox			Passed		
			n/a	Pay breakdown calculation must be displayed in the text area.	Pay breakdown calculation is displayed in the text area.	Passed		
			Hours worked	30:00	30:00	Passed		
	Click "Calculate	pay"	Hourly pay rate	\$ 23.00	\$ 23.00	Passed		
6	button.		Regular pay (30:00)	\$ 690.00	\$ 690.00	Passed		
			Overtime pay (00:00)	\$ 0.00	\$ 0.00	Passed		
			Gross pay	\$ 690.00	\$ 690.00	Passed		
			Total deduction	\$ 61.50	\$ 61.50	Passed		
			Net pay	\$ 690.00	\$ 690.00	Passed		

Superannuation

\$ 0.00

\$ 0.00

Passed

			TEST CASE IDEN	TIFICATION					
Title		TEST_CA							
			User enters details for Skill Level 2, with valid overtime hours worked, and medical and						
descri	iption	dental ins	ntal insurances.						
No. of condi	f test steps or tions	5	Cumulative hours required to write test case	0:10	Hours required to perform test	0:05			
		TEST	CASE SETUP / PREPA	RATION / CONDIT	IONS				
No.			Setup d	escription					
1	The application n	nust be inst	alled and has been opened	d.					
2	All components of	of the applic	cation must be in their ini	tial state.					
		T]	EST CASE OVERVIEV	V AND TEST STEPS	8				
Step No.	Step descri	ption	Component affected or data value	Expected results	Actual results	Status (Passed or Failed)			
			skillLevel index = 1	Level 2 must be selected.	Level 2 is selected.	Passed			
			Medical insurance checkbox	Must be in	Component is in	Passed			
1	Select "Level 2" for Skill Level.		Dental insurance checkbox	unchecked and undenabled state.	unchecked and enabled state.	Passed			
			Long-term disability insurance checkbox			Passed			
			Retirement plan checkbox	Must be in unchecked and disabled state.		Passed			
2	Enter number of l worked; e.g. 44	nours	hoursWorked = 44	Program accepts the input.		Passed			
3	Tick medical insucheckbox.	ırance	Medical insurance checkbox	Must be in checked	Component is in	Passed			
4	Tick dental insura checkbox.	ance	Dental insurance checkbox	state.	checked state.	Passed			
			n/a	Pay breakdown calculation must be displayed in the text area.	Pay breakdown calculation is displayed in the text area.	Passed			
			Hours worked	44:00	44:00	Passed			
	Click "Calculate	pay"	Hourly pay rate	\$ 23.00	\$ 23.00	Passed			
5	button.		Regular pay (40:00)	\$ 920.00	\$ 920.00	Passed			
			Overtime pay (04:00)	\$ 138.00	\$ 138.00	Passed			
			Gross pay	\$ 1,058.00	\$ 1,058.00	Passed			
			Total deduction	\$ 44.50	\$ 44.50	Passed			
			Net pay	\$ 1,013.50	\$ 1,013.50	Passed			

Superannuation

\$ 0.00

\$ 0.00

Passed

			TEST CASE IDEN	TIFICATION				
Title		TEST_C	ASE_07					
Objec	Objective or		Ser enters details for Skill Level 3, with valid regular hours worked, all insurances					
descri	iption	selected a	selected and a retirement plan.					
No. of	f test steps or tions	7	Cumulative hours required to write test case	0:10	Hours required to perform test	0:05		
		TEST	CASE SETUP / PREPA	RATION / CONDIT	IONS			
No.			Setup d	lescription				
1	The application n	nust be inst	alled and has been opened	d.				
2	All components of	of the applic	cation must be in their ini	tial state.				
	•	T	EST CASE OVERVIEV	W AND TEST STEPS	S			
Step No.	Step descri	ption	Component affected or data value	Expected results	Actual results	Status (Passed or Failed)		
			skillLevel index = 2	Level 3 must be selected.	Component is in unchecked and enabled state.	Passed		
			Medical insurance checkbox			Passed		
1	Select "Level 3" Level.	for Skill	Dental insurance checkbox	Must be in unchecked and		Passed		
			Long-term disability insurance checkbox	enabled state.		Passed		
			Retirement plan checkbox			Passed		
2	Enter number of l worked; e.g. 35		hoursWorked = 35	Program accepts the input.	Program accepts the input.	Passed		
3	Tick medical insucheckbox.		Medical insurance checkbox			Passed		
4	Tick dental insura checkbox.	ance	Dental insurance checkbox	Must be in checked	Component is in	Passed		
5	Tick long-term di insurance checkbe	•	Long-term disability insurance checkbox	state. checked state.	checked state.	Passed		
6	Tick retirement p		Retirement plan checkbox			Passed		
			n/a	Pay breakdown calculation must be displayed in the text area.	Pay breakdown calculation is displayed in the text area.	Passed		
			Hours worked	35:00	35:00	Passed		
	Click "Calculate	pay"	Hourly pay rate	\$ 27.00	\$ 27.00	Passed		
7 button. Regular pay (35:00)	\$ 945.00	\$ 945.00	Passed					
			Overtime pay (00:00)	\$ 0.00	\$ 0.00	Passed		
			Gross pay	\$ 945.00	\$ 945.00	Passed		
			Total deduction	\$ 61.50	\$ 61.50	Passed		
			Net pay	\$ 883.50	\$ 883.50	Passed		
			Superannuation	\$ 28.35	\$ 28.35	Passed		

			TEST CASE IDEN	TIFICATION		
Title		TEST_CA				
			s details for Skill Level 3,			e options,
No. of test steps or conditions 5			ctirement plan, and with a Cumulative hours required to write test case	0:10	Hours required to perform test	0:05
		TEST	CASE SETUP / PREPAI	RATION / CONDITION	ONS	
No.			Setup de	escription		
1	The application must	be install	ed and has been opened.			
2			ion must be in their initial	state.		
	T		EST CASE OVERVIEW			
Step No.	Step descripti		Component affected or data value	Expected results	Actual results	Status (Passed or Failed)
			skillLevel index = 2	Level 3 must be selected.	Level 3 is selected.	Passed
			Medical insurance checkbox		Actual results Level 3 is selected. Component is in unchecked and enabled state.	Passed
1	Select "Level 3" for Select Level.	Skill	Dental insurance checkbox	Must be in unchecked and		Passed
			Long-term disability insurance checkbox	enabled state.		Passed
			Retirement plan checkbox			Passed
2	Enter number of hour worked; e.g. 37.5	rs	hoursWorked = 37.5	Program accepts the input.	input.	Passed
3	Tick retirement plan		Retirement plan	Must be in checked	Component is in	Passed
	checkbox.		checkbox	state.	checked state.	1 40000
			n/a	Pay breakdown calculation must be displayed in the text area.	Pay breakdown calculation is displayed in the text area.	Passed
			Hours worked	37:30	37:30	Passed
			Hourly pay rate	\$ 27.00	\$ 27.00	Passed
4	Click "Calculate pay	" button.	Regular pay (37:30)	\$ 1,012.50	\$ 1,012.50	Passed

Overtime pay (00:00)

Gross pay

Net pay

checkbox

checkbox

checkbox

5

Click "Reset form" button

Total deduction

Superannuation

skillLevel index = -1

Medical insurance

Dental insurance

Long-term disability

insurance checkbox Retirement plan

Breakdown text area

\$ 0.00

\$ 0.00

\$ 30.38

\$ 1,012.50

\$ 1,012.50

Skill level texts

must be null.

Must be in

unchecked and

disabled state.

Must be empty.

\$ 0.00

\$ 0.00

\$ 30.38

\$ 1,012.50

\$ 1,012.50

Skill level texts are

Component is in

Text area is empty.

unchecked and

disabled state.

null.

Passed

			TEST CASE IDEN	TIFICATION			
Title		TEST_CA					
	ctive or		rs details for Skill Level 3	3. with 'one hour' as n	umber hour worked.	 ıll	
descri			s selected and no retireme	·			
No. of	f test steps or	_	Cumulative hours		Hours required to		
condi	-	7	required to write test case	0:10	perform test	0:05	
		TFST	CASE SETUP / PREPAI	RATION / CONDITI	ONS		
No.		ILSIC		escription	ONS		
1	The application must be installed and has been opened.						
2	* *		ation must be in their init				
	1		ST CASE OVERVIEW				
Step			Component affected			Status	
No.	Step descri	ption	or data value	Expected results	Actual results	(Passed or Failed)	
			skillLevel index = 2	Level 3 must be selected.	Level 3 is selected.	Passed	
			Medical insurance checkbox		Component is in unchecked and enabled state. Program accepts the input.	Passed	
1	Select "Level 3" t Level.	for Skill	Dental insurance checkbox	Must be in unchecked and		Passed	
			Long-term disability insurance checkbox	enabled state.		Passed	
			Retirement plan checkbox			Passed	
2	Enter number of hours worked; e.g. 1		hoursWorked = 1	Program accepts the input.		Passed	
3	Tick medical insu checkbox.		Medical insurance checkbox			Passed	
4	Tick dental insurance checkbox.		Dental insurance checkbox	Must be in checked state.	Component is in checked state.	Passed	
5	Tick long-term di insurance checkbo		Long-term disability insurance checkbox			Passed	
			n/a	Pay breakdown calculation must be displayed in the text area.	Pay breakdown calculation is displayed in the text area.	Passed	
7	Click "Calculate pay"		n/a	A popup warning message must appear indicating "total deduction is larger than gross pay".	A popup warning message appears indicating "total deduction is larger than gross pay".	Passed	
'	button.	Hours worked 1:00 Hourly pay rate \$ 27.00	1:00	Passed			
			\$ 27.00	\$ 27.00	Passed		
			Regular pay (01:00)	\$ 27.00	\$ 27.00	Passed	
			Overtime pay (00:00)	\$ 0.00	\$ 0.00	Passed	
			Gross pay	\$ 27.00	\$ 27.00	Passed	
			Total deduction	\$ 61.50	\$ 61.50	Passed	
			Net pay	\$ -34.50	\$ -34.50	Passed	
			Superannuation	\$ 0.00	\$ 0.00	Passed	

TEST CASE IDENTIFICATION								
Title		TEST_CASE_10						
Objective or description		User attem	User attempts to enter invalid number of hours worked.					
No. of test steps or conditions		9	Cumulative hours required to write test case	0:15	Hours required to perform test	0:07		
TEST CASE SETUP / PREPARATION / CONDITIONS								
No.	Setup description							

TEST CASE SETUP / PREPARATION / CONDITIONS No. Setup description 1 The application must be installed and has been opened. 2 All components of the application must be in their initial state. TEST CASE OVERVIEW AND TEST STEPS

TEST CASE OVERVIEW AND TEST STEPS									
Step No.	Step description	Component affected or data value	Expected results	Actual results	Status (Passed or Failed)				
		skillLevel index = 0	Level 1 must be selected.	Level 1 is selected.	Passed				
		Medical insurance checkbox			Passed				
1	Select "Level 1" for Skill Level.	Dental insurance checkbox	Must be in unchecked and disabled state. A' An error message must appear on the text area asking user to enter appropriate number of hours. An error message must appear on the text area asking user to enter appropriate number of hours. An error message must appear on the text area asking user to enter number of hours between 1.00 and 168.00 inclusive. An error message appears on the text area asking user to enter number of hours between 1.00 and 168.00 inclusive.	Passed					
		Long-term disability insurance checkbox			Passed				
		Retirement plan checkbox		Level 1 is selected. Component is in unchecked and disabled state. An error message appears on the text area asking user to enter appropriate number of hours. An error message appears on the text area asking user to enter number of hours between 1.00 and	Passed				
2	Enter text 'A' in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = 'A'	An error message	Actual results Level 1 is selected. Component is in unchecked and disabled state. An error message appears on the text area asking user to enter appropriate number of hours. An error message appears on the text area asking user to enter number of hours between 1.00 and 168.00 inclusive. Program accepts the input, and then displays necessary data for pay breakdown calculation in text	Passed				
3	Enter text '\$' in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = '\$'	the text area asking user to		Passed				
4	Enter texts "XY" in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = "XY"			Passed				
5	Enter number –1 in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = -1	must appear on	An error message appears on the text area asking user to enter appropriate number of hours. An error message appears on the text area asking user to enter appropriate number of hours. An error message appears on the text area asking user to enter number of hours between 1.00 and 168.00 inclusive. Program accepts the input, and then displays	Passed				
6	Enter number 0 in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = 0	asking user to enter number of		Passed				
7	Enter number 168.01 in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = 168.01	1.00 and 168.00		Passed				
8	Enter number 0.1 in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = 0.1	Program must accept the input, and display	the input, and then displays	Passed				
9	Enter number 167.99 in number of hours worked text field, then click "Calculate pay" button.	hoursWorked = 167.99	necessary data for pay breakdown calculation in text area.	pay breakdown calculation in text	Passed				