Jonathan Delin (jd1274), Jasmin Kaur(jk1539)   CS213 Project 3 Test Cases

Test Case	Purpose of Test Cases	Input Data	Expected Output
1	Testing the "Add Employee" functionality. The functionality of the data fields used to add an employee will be tested as well as the radio buttons disabling operations. For part time employees, they must be added first before updating their hours worked. Radio buttons must be deselected by clicking to choose another button.	1. Name: John Deere Date: 2/2/2012, Department: IT, Fulltime, Salary: 70000 2. Name: Tony Hawk, Date: 3/12/1999, Department: CS, Parttime, Hourly Wage: $15, Hours Worked: 40 3. Name: Abe Lincoln Date: 4/20/1998, Department: ECE, Management, Manager, Salary: 90000 4. Name: Kanye West Date: 1/7/2004, Department: CS, Management, Director, Salary: 100000 5. Name: Jane Doe Date: 8/8/2008, Department: IT, Management, Department Head, Salary: 95000	1. Employee Added. 2. Employee Added. Working hours set. 3. Employee Added. 4. Employee Added. 5. Employee Added.
2	Testing the "Export" button using the test case 1 data and an empty database.	1. The data from Test Case 1. 2. Empty database.	1. John Deere::IT::2/2/2012::Payment $0.00::FULL TIME::Annual Salary $70,000.00 Tony Hawk::CS::3/12/1999::Payment $0.00::PARTTIME::Hourly Rate $15.00::Hours worked this period: 40 Abe Lincoln::ECE::4/20/1998::Payment $0.00::FULL TIME::Annual Salary $90,000.00::Manager Compensation $0.00 Kanye West::CS::1/7/2004::Payment $0.00::FULL TIME::Annual Salary $100,000.00::Director Compensation $0.00 Jane Doe::IT::8/8/2008::Payment $0.00::FULL TIME::Annual Salary $95,000.00::Department Head Compensation $0.00 2. Employee database is empty cannot export.

| 3 | Testing "Calculate Pay" button which will calculate the payment methods based on the data. | 1. Calculate Pay -> switch to Company Database tab -> Print Database -> Print Statements. (The data from Test Case 1. Tony Hawk's Hours Worked was set to 40 but never calculated until now. Fulltime and Manager's payments will also be calculated here.)
 2. Empty Database | 1.Calculation of employee payments is done.

 --Printing earning statements for all employees--

 John Deere::IT::2/2/2012::Payment $2,692.31::FULL TIME::Annual Salary $70,000.00
 Tony Hawk::CS::3/12/1999::Payment $600.00::PARTTIME::Hourly Rate $15.00::Hours worked this period: 40
 Abe Lincoln::ECE::4/20/1998::Payment $3,653.85::FULL TIME::Annual Salary $90,000.00::Manager Compensation $192.31
 Kanye West::CS::1/7/2004::Payment $4,307.69::FULL TIME::Annual Salary $100,000.00::Director Compensation $461.54
 Jane Doe::IT::8/8/2008::Payment $4,115.38::FULL TIME::Annual Salary $95,000.00::Department Head Compensation $461.54

 2. Employee database is empty |
| 4 | Testing "Export Button" if it will properly export to a new text file. | 1. The data from Test Case 3, with the calculated pay.
 2. Click Export but cancel in the file chooser window.
 3. Empty Database | 1.File was successfully exported.

 John Deere::IT::2/2/2012::Payment $2,692.31::FULL TIME::Annual Salary $70,000.00
 Tony Hawk::CS::3/12/1999::Payment $600.00::PARTTIME::Hourly Rate $15.00::Hours |

			worked this period: 40
			Abe Lincoln::ECE::4/20/1998::Payment $3,653.85::FULL TIME::Annual Salary $90,000.00::Manager Compensation $192.31 Kanye West::CS::1/7/2004::Payment $4,307.69::FULL TIME::Annual Salary $100,000.00::Director Compensation $461.54 Jane Doe::IT::8/8/2008::Payment $4,115.38::FULL TIME::Annual Salary $95,000.00::Department Head Compensation $461.54
			2.Nothing happens.
			3.Employee database is empty cannot export.
5	Testing "Remove Employee" button. We test for removing non-existing employees as well and removing from an empty database.	1. Name: John Deere Date: 2/2/2012, Department: IT 2. Name: John Deere Date: 2/2/2012, Department: IT 3. Name: Tony Hawk, Date: 3/12/1999, Department: CS 4. Name: Abe Lincoln Date: 4/20/1998, Department: ECE 5. Name: Kanye West Date: 1/7/2004, Department: IT 6. Name: Kanye West Date: 1/7/2004, Department: CS 7. Name: Jane Doe Date: 8/8/2008, Department: IT 8. Empty Database	1. Employee removed. 2. Employee does not exist. 3. Employee removed. 4. Employee removed. 5. Employee does not exist. 6. Employee removed. 7. Employee removed. 8. Employee database is empty.
6	Testing the "Print Database" button and its options. This is in the Company Database tab. The database is based on the data from test case 3.	1. Print Database ->Print Statements 2. Print Database -> Print By Department 3. Print Database -> Print By Date Hired	1. --Printing earning statements for all employees-- John Deere::IT::2/2/2012::Payment $2,692.31::FULL TIME::Annual Salary $70,000.00 Tony Hawk::CS::3/12/1999::Payment

			$600.00::PARTTIME::Hourly Rate $15.00::Hours worked this period: 40 Abe Lincoln::ECE::4/20/1998::Payment $3,653.85::FULL TIME::Annual Salary $90,000.00::Manager Compensation $192.31 Kanye West::CS::1/7/2004::Payment $4,307.69::FULL TIME::Annual Salary $100,000.00::Director Compensation $461.54 Jane Doe::IT::8/8/2008::Payment $4,115.38::FULL TIME::Annual Salary $95,000.00::Department Head Compensation $461.54
			2.--Printing earning statements by department--
			Tony Hawk::CS::3/12/1999::Payment $600.00::PARTTIME::Hourly Rate $15.00::Hours worked this period: 40 Kanye West::CS::1/7/2004::Payment $4,307.69::FULL TIME::Annual Salary $100,000.00::Director Compensation $461.54 Abe Lincoln::ECE::4/20/1998::Payment $3,653.85::FULL TIME::Annual Salary $90,000.00::Manager Compensation $192.31 Jane Doe::IT::8/8/2008::Payment $4,115.38::FULL TIME::Annual Salary $95,000.00::Department Head Compensation $461.54 John Deere::IT::2/2/2012::Payment $2,692.31::FULL TIME::Annual Salary

			$70,000.00 3. --Printing earning statements by date hired-- Abe Lincoln::ECE::4/20/1998::Payment $3,653.85::FULL TIME::Annual Salary $90,000.00::Manager Compensation $192.31 Tony Hawk::CS::3/12/1999::Payment $600.00::PARTTIME::Hourly Rate $15.00::Hours worked this period: 40 Kanye West::CS::1/7/2004::Payment $4,307.69::FULL TIME::Annual Salary $100,000.00::Director Compensation $461.54 Jane Doe::IT::8/8/2008::Payment $4,115.38::FULL TIME::Annual Salary $95,000.00::Department Head Compensation $461.54 John Deere::IT::2/2/2012::Payment $2,692.31::FULL TIME::Annual Salary $70,000.00
7	Testing "Add" to check for attempts at adding the same employee.	1. Name: A B Date: 1/2/2003, Department: IT, Fulltime, Salary: 111111 2. Name: A B Date: 1/2/2003, Department: IT, Fulltime, Salary: 111111 3. Name: A B Date: 1/2/2003, Department: IT, Management, Manager, Salary: 111111 4. Name: A B, Date: 1/2/2003, Department: IT, Parttime, Hourly Wage: $15, Hours Worked: 40	1. Employee added. 2. Employee is already in the list. 3. Employee is already in the list. 4. Employee is already in the list.
8	Testing "Import Database:button with the sample database.txt from the Professor.	1. Company Database Tab->Import Database -> database.txt (note: database.txt contains: P,Jane Doe,CS,7/1/2020,45.9 F,John Doe,CS,6/30/2019,76430 F,Charlie Brown,CS,4/30/2019,56000 F,Amy Harrison,IT,3/31/2020,69000 M,Eric Haskell,IT,9/1/2015,101000,2	1.Employee added. Employee added. Employee added. Employee added. Employee added. Employee added. Employee added. Employee added.

		M,Sunny White,IT,2/28/2016,89300,1 M,Henry Young,IT,2/1/2005,120000,3 P,Bob Scanlan,ECE,5/12/2019,24.59 P,Jeff Clinton,ECE,10/1/2001,39.99 P,Carey Wang,ECE,11/30/2017,26.59) 2. Click Import but cancel in the file chooser window.	Employee added. Employee added. 2. Nothing happens.
9	Testing "Add" to check for attempts at adding invalid dates..	1. Name: C C Date: 3/3/1899, Department: CS, Fulltime, Salary: 1000000 2. Name: C C Date: 3/3/2022, Department: CS, Fulltime, Salary: 1000000 3. Name: C C Date:, Department: CS, Fulltime, Salary: 1000000	1. 3/3/1899 is not a valid date! 2. 3/3/2022 is not a valid date! 3. Please enter date hired.
10	Testing adding a part time employee with invalid value hours worked.	1. Name:, Date: 3/12/2021, Department: ECE, Parttime, Hourly Wage: , Hours Worked: 2. Name: J J, Date: 3/12/2021, Department: ECE, Parttime, Hourly Wage: , Hours Worked: 3. Name: J J, Date: 3/12/2021, Department: ECE, Parttime, Hourly Wage: 20 , Hours Worked: -1 4. Name: J J, Date: 3/12/2021, Department: ECE, Parttime, Hourly Wage: 20 , Hours Worked: 101	1. Please enter name. Please enter hourly payrate. 2. Please enter hourly payrate. 3. Employee added. Working hours cannot be negative 4. Invalid Hours: over 100.
11	Testing invalid full time employee "add" inputs for salary. Blank salary field and negative salary input.	1. Name: R R Date: 7/4/2019, Department: CS, Fulltime, Salary: 2. Name: R R Date: 7/4/2019, Department: CS, Fulltime, Salary: -1	1. Please enter the salary value. 2. Salary cannot be negative
12	Testing invalid management employee "add" inputs. Blank salary field, negative salary input, unpicked manager role/position.	1. Name: J T Date: 4/2/2009, Department: ECE, Management,, Salary: 90000 2. Name: J T Date: 4/2/2009, Department: ECE, Management, Manager, Salary: 3. Name: J T Date: 4/2/2009, Department: ECE, Management, Manager, Salary: -1	1. Please select management type. 2. Please enter the salary value. 3. Salary cannot be negative.
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