

Project 3 GUI Test Document

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Test Specifications for add(ActionEvent event)

Test Case #	Purpose of the Test Case	Input Data	Expected Output
1	Testing if the method checks for whether the given employee already exists, and successfully adds the employee to the company <u>Case 1:</u> Part Time employee added <u>Case 2:</u> Full Time employee added <u>Case 3:</u> Management employee added <u>Case 4:</u> Part Time employee already exists <u>Case 5:</u> Full Time employee already exists <u>Case 6:</u> Management employee already exists	<u>Case 1:</u> "Part Time, Jane Doe, CS, 7/1/2020, 45.9" <u>Case 2:</u> "Full Time, John Doe, CS, 6/30/2019, 76430" <u>Case 3:</u> "Manager, Eric Haskell, IT, 9/1/2015, 101000, Director" <u>Case 4:</u> "Part Time, Jane Doe, CS, 7/1/2020, 45.9" <u>Case 5:</u> "Full Time, John Doe, CS, 6/30/2019, 76430" <u>Case 6:</u> "Manager, Eric Haskell, IT, 9/1/2015, 101000, Director"	<u>Case 1</u> displays "Employee added." <u>Case 2</u> displays "Employee added." <u>Case 3</u> displays "Employee added." <u>Case 4</u> displays "Employee is already in the list." <u>Case 5</u> displays "Employee is already in the list." <u>Case 6</u> displays "Employee is already in the list."
2	Testing if all of the input data is valid <u>Case 1:</u> The input date is before 1900 <u>Case 2:</u> The input day after the current day <u>Case 3:</u> The input Hourly Rate is not an integer data type. <u>Case 4:</u> The input Hourly Rate is negative <u>Case 5:</u> The input Annual Salary is not an integer data type <u>Case 6:</u> The input Annual Salary is negative	<u>Case 1:</u> "Part Time, Jane Doe, CS, 7/1/1899, 45.9" <u>Case 2:</u> "Part Time, Jane Doe, CS, 7/1/2022, 45.9" <u>Case 3:</u> "Part Time, Jane Doe, CS, 7/1/2020, asdf" <u>Case 4:</u> "Part Time, Jane Doe, CS, 7/1/2020, -45.9" <u>Case 5:</u> "Full Time, John Doe, CS, 6/30/2019, asdf" <u>Case 6:</u> "Full Time, John Doe, CS,	<u>Case 1</u> displays "7/1/1899 is not a valid date!" <u>Case 2</u> displays "7/1/2022 is not a valid date!" <u>Case 3</u> displays "Please enter a number." <u>Case 4</u> displays "Pay rate cannot be negative." <u>Case 5</u> displays "Please enter a number." <u>Case 6</u> displays "Salary cannot be

		6/30/2019, -76430"	negative."
3	<p>Testing if any of the input data fields are empty</p> <p><u>Case 1:</u> "Name" field is empty</p> <p><u>Case 2:</u> "Date" field is empty</p> <p><u>Case 3:</u> "Hourly Rate" field is empty</p> <p><u>Case 4:</u> "Annual Salary" field is empty</p>	<p><u>Case 1:</u> "Part Time, " ", CS, 7/1/2002, 45.9"</p> <p><u>Case 2:</u> "Part Time, Jane Doe, CS, " ", 45.9"</p> <p><u>Case 3:</u> "Part Time, Jane Doe, CS, 7/1/2002, " " "</p> <p><u>Case 4:</u> "Full Time, John Doe, CS, 6/30/2019, " " "</p>	<p><u>Case 1</u> displays "Please enter in all required fields."</p> <p><u>Case 2</u> displays "Please enter in all required fields."</p> <p><u>Case 3</u> displays "Please enter a number."</p> <p><u>Case 4</u> displays "Please enter a number."</p>

Test Specifications for remove(ActionEvent event)

Test Case #	Purpose of the Test Case	Input Data	Expected Output
4	<p>Testing if the method checks for whether the given employee exists, and successfully removes the employee from the company</p> <p><u>Case 1:</u> There are currently no employees in the company</p> <p><u>Case 2:</u> Part Time employee is removed</p> <p><u>Case 3:</u> Full Time employee is removed</p> <p><u>Case 4:</u> Management employee is removed</p> <p><u>Case 5:</u> Part Time employee does not exist</p> <p><u>Case 6:</u> Full Time employee does not exist</p> <p><u>Case 7:</u> Management employee does not exist</p>	<p><u>Case 1:</u> "Part Time, Jane Doe, CS, 7/1/2020"</p> <p><u>Case 2:</u> "Part Time, Jane Doe, CS, 7/1/2020"</p> <p><u>Case 3:</u> "Full Time, John Doe, CS, 6/30/2019"</p> <p><u>Case 4:</u> "Manager, Eric Haskell, IT, 9/1/2015"</p> <p><u>Case 5:</u> "Part Time, Jane Doe, IT, 7/1/2020"</p> <p><u>Case 6:</u> "Full Time, John Doe, ECE, 6/30/2019"</p> <p><u>Case 7:</u> "Manager, Eric Haskell, CS, 9/1/2015"</p>	<p><u>Case 1</u> displays "Employee database is empty."</p> <p><u>Case 2</u> displays "Employee removed."</p> <p><u>Case 3</u> displays "Employee removed."</p> <p><u>Case 4</u> displays "Employee removed."</p> <p><u>Case 5</u> displays "Employee does not exist."</p> <p><u>Case 6</u> displays "Employee does not exist."</p> <p><u>Case 7</u> displays "Employee does not exist."</p>
5	Testing if all of the input data is valid	<u>Case 1:</u> "Part Time, Jane Doe, CS,	<u>Case 1</u> displays "7/1/1899 is not a

	<u>Case 1:</u> The input date is before 1900 <u>Case 2:</u> The input day after the current day	7/1/1899" <u>Case 2:</u> "Part Time, Jane Doe, CS, 7/1/2022"	valid date!" <u>Case 2</u> displays "7/1/2022 is not a valid date!"
6	Testing if any of the input data fields are empty <u>Case 1:</u> "Name" field is empty <u>Case 2:</u> "Date" field is empty	<u>Case 1:</u> "Part Time, " ", CS, 7/1/2002" <u>Case 2:</u> "Part Time, Jane Doe, CS, ""	<u>Case 1</u> displays "Please enter in all required fields." <u>Case 2</u> displays "Please enter in all required fields."

Test Specifications for setHour(ActionEvent event)

Test Case #	Purpose of the Test Case	Input Data	Expected Output
7	Testing if the method checks for whether the given employee already exists, and successfully sets the hours of the Part Time employee <u>Case 1:</u> There are currently no employees in the company <u>Case 2:</u> A Part Time employee's hours is set <u>Case 3:</u> A Full Time employee's hours is set <u>Case 4:</u> A Management employee's hours is set <u>Case 5:</u> Part Time employee does not exist	<u>Case 1:</u> "Part Time, Jane Doe, CS, 7/1/2020, 100" <u>Case 2:</u> "Part Time, Jane Doe, CS, 7/1/2020, 100" <u>Case 3:</u> "Full Time, John Doe, CS, 6/30/2019, 100" <u>Case 4:</u> "Manager, Eric Haskell, IT, 9/1/2015, 100" <u>Case 5:</u> "Part Time, Jane Doe, IT, 7/1/2020, 100"	<u>Case 1</u> displays "Employee database is empty." <u>Case 2</u> displays "Working hours set." <u>Case 3</u> displays "Employee must be Part Time to set hours." <u>Case 4</u> displays "Employee must be Part Time to set hours." <u>Case 5</u> displays "Employee does not exist."
8	Testing if all of the input data is valid <u>Case 1:</u> The input date is before 1900 <u>Case 2:</u> The input day after the current day <u>Case 3:</u> The input hours is negative <u>Case 4:</u> The input hours is over	<u>Case 1:</u> "Part Time, Jane Doe, CS, 7/1/1899, 100" <u>Case 2:</u> "Part Time, Jane Doe, CS, 7/1/2022, 100" <u>Case 3:</u> "Part Time, John Doe, CS, 6/30/2019, -40"	<u>Case 1</u> displays "7/1/1899 is not a valid date!" <u>Case 2</u> displays "7/1/2022 is not a valid date!" <u>Case 3</u> displays "Working hours cannot be

	100	<u>Case 4:</u> "Manager, Eric Haskell, IT, 9/1/2015, 120"	negative." <u>Case 4</u> displays "Invalid hours: over 100."
9	Testing if any of the input data fields are empty <u>Case 1:</u> "Name" field is empty <u>Case 2:</u> "Date" field is empty <u>Case 3:</u> "Hours Worked" field is empty	<u>Case 1:</u> "Part Time, " ", CS, 7/1/2002, 100" <u>Case 2:</u> "Part Time, Jane Doe, CS, " ", 100" <u>Case 3:</u> "Part Time, John Doe, CS, 6/30/2019, ""	<u>Case 1</u> displays "Please enter in all required fields." <u>Case 2</u> displays "Please enter in all required fields." <u>Case 3</u> displays "Please enter an number."

Test Specifications for calculatePayment(ActionEvent event)

Test Case #	Purpose of the Test Case	On Action	Expected Output
10	Testing if the method checks for whether the company is currently empty, and calculates the payments of all employees <u>Case 1:</u> There are currently no employees in the company <u>Case 2:</u> The payment of a Part Time employee was calculated <u>Case 3:</u> The payment of a Full Time employee was calculated <u>Case 4:</u> The payment of a Management employee with a Manager role was calculated <u>Case 5:</u> The payment of a Management employee with a Department Head role was calculated <u>Case 6:</u> The payment of a Management employee with a Director role was calculated	"Compute" under the "Payment" menu bar	<u>Case 1</u> displays "Employee database is empty." <u>Case 2</u> displays "Calculation of employee payments is done." <u>Case 3</u> displays "Calculation of employee payments is done." <u>Case 4</u> displays "Calculation of employee payments is done." <u>Case 5</u> displays "Calculation of employee payments is done." <u>Case 6</u> displays "Calculation of employee payments is done."

Test Specifications for importFile(ActionEvent event)

Test Case #	Purpose of the Test Case	On Action	Expected Output
7	Tests if the file exists and was successfully imported <u>Case 1</u> : File was successfully imported <u>Case 2</u> : File was not found <u>Case 3</u> : Invalid File	“Import” under the “File” menu bar Prompted: "Open Source File for the Import" Choose .txt file to Import	<u>Case 1</u> add() command lines of .txt file successfully inputted and corresponding output lines displayed <u>Case 2</u> displays "File not found." <u>Case 3</u> displays "Invalid try again."

Test Specifications for exportFile(ActionEvent event)

Test Case #	Purpose of the Test Case	On Action	Expected Output
7	Tests if the file exists and was successfully exported <u>Case 1</u> : File was successfully imported <u>Case 2</u> : File was not found <u>Case 3</u> : Invalid File	“Export” under the “File” menu bar Prompted: "Open Source File for the Export" Choose .txt file to Export	<u>Case 1</u> current company successfully print() on to .txt file <u>Case 2</u> displays "File not found." <u>Case 3</u> displays "Invalid try again."