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| **Test Case #** | **Purpose of Test Case** | **Input Data** | **Expected Output** |
| 1 | Test non-numeric input in input boxes that expect only numbers   * Case 1: empty input, returns missing arguments * Case 2: inputting characters, returns “non numeric data entered” | Case 1: “”  Case 2: “abc” | Case 1: “Missing arguments!"  Case 2: “"Non numeric data has been entered.” |
| 2 | Test export/import to not export empty database and import invalid files:   * Case 1:Exporting empty database, returns empty database error * Case 2: Importing given database.txt * Case 3: importing wrong format database * Case 4: importing given database.txt to company with existing employees | Case 1:Exporting empty database  Case 2: importing given database.txt  Case 3: importing wrong format database  Case 4: importing database with employees already in company | Case 1: "Database is empty, cannot export."  Case 2: database.txt successfully added to Company  Case 3:”Cannot import database”  Case 4: Database.txt successfully added to company |
| 3 | Test add method and button more specifically   * Case 1: missing any required arguments, returns missing arguments * Case 2: non required fields filled, is not possible with our design * Case 3: adding the same employee(same name, dept, date hired), returns false * Case 4: All correct input | Case 1: any required argument missing  Case 2: trying to input values in non required fields  Case 3: adding an employee with same profile(name,dept,date hired)  Case 4: all fields correctly inputted | Case 1: “Missing arguments!”  Case 2: Non-required fields disabled  Case 3:”Employee is already in the list.“  Case 4: “Employee added.” |
| 4 | Test Remove method and button more specifically   * Case 1: missing any required arguments, returns missing arguments * Case 2: removing an employee that does not exist * Case 3: attempting to enter in non-required fields * Case 4: all correct input | Case 1: Any required arguments missing  Case 2: Removing an employee that does not exist  Case 3: Entering values in non-required fields  Case 4: all fields correctly inputted | Case 1: “Missing arguments!”  Case 2: “Employee does not exist.”  Case 3: Values cannot be added into non-required fields  Case 4: “Employee removed.” |
| 5 | Test disabling fields from other field actions   * Case 1: clicking full time radio enables add employee, remove employee, annual salary text box, but disables set hours, management radio and hours worked and rate. * Case 2: clicking part time radio enables set hours, add employee, remove employee, hours worked and rate text box. Disables management radio. * Case 3: clicking management enables add employee, remove employee, annual salary and enables management radio. | Case 1: clicking full time radio  Case 2: clicking parttime radio  Case 3: clicking management radio | Case 1: enables add, remove, annual salary, disables management radio, set hours, hours worked, rate  Case 2: enables set hours, add employee, remove employee, hours worked, rate, disables annual salary management radio  Case 3: enables annual salary add employee, remove employee, management radio, disables hours worked, rate, set hours |
| 6 | Test Set hours, hourly rate, range of inputs   * Test case 1: negative numbers, all 3 text boxes returns false * Test case 2: set hours worked to more than 100, returns false * Test case 3: no input( already tested in test case 1) * Test case 4: non-numeric input(already tested in test case 1) * Test case 5: employee being set does not exist * Test case 6: Correct format, parttime employee being set hours | Case 1: input negative numbers in hours worked or rate  Case 2: input hours worked more than 100  Case 3: no input  Case 4: character being inputted  Case 5: employee with no profile in company being set  Case 6: parttime employee being set | Case 1: Hours/rate cannot be negative!  Case 2: Hours worked cannot be more than 100  Case 3: Missing arguments!  Case 4: non-numerical input!  Case 5: Employee does not exist!  Case 6: Employee hours set! |
| 7 | Test clear button to remove all existing values and textarea   * Case 1: removing all text box inputs * Case 2: removing all textarea outputs | Case 1: input any value into all the text boxes and click clear  Case 2: output any gui commands in textarea, click clear | Case 1: all text boxes will be blank  Case 2: textarea will be empty |
| 8 | Test calculate payments   * Case 1: calculate payments in empty database * Case 2: calculate payments successfully | Case 1:Empty database, click calculate  Case 2: click calculate in database with employees | Case 1: Employee database is empty!  Case 2: Calculation of employee payments is done |