

Project Test Document

Test Case #	Purpose of the test case	Input Data	Expected Output
1	Test the Name field of the GUI. Any string entered into the field should be registered as the employee's name.	1. "Eduardo A Alba" 2. "Bhavika Teli"	1. "Eduardo A Alba" 2. "Bhavika Teli"
2	Test the Department selection buttons of the GUI. The selected department should be entered into database upon selection and adding Employee.	1. "CS" 2. "IT" 3. "ECE"	1. "CS" 2. "IT" 3. "ECE"
3	Test the Date field. The program should output "Please input valid date" if entered date is beyond the current date.	1. "4/1/2030" 2. "1/2/2023"	1. "Please input valid date" 2. "Please input valid date"
4	Test the Date field. The program should output please input valid date if the date entered does not exist.	1. "2/31/2020" 2. "1/32/2021"	1. "Please input valid date" 2. "Please input valid date"
5	Test the Full Time button. Selecting the button should make the 'Hours Worked', 'Rate' and Management Type Buttons not accessible.	1. Full Time Selected 2. Unselected	1. Fields inaccessible 2. Fields accessible

6	Test the Part Time button. Selecting the button should make 'Hours Worked' and 'Rate' accessible while making 'Annual Salary' and Management Type buttons inaccessible	1. Part Time Selected 2. Unselected	1. Hours Worked and Rate accessible, Annual Salary and Management Type Inaccessible 2. Fields accessible
7	Test the Management button. Selecting the button should make 'Hours Worked' and 'Rate' inaccessible while making the Management Type buttons accessible.	1. Management Selected 2. Unselected	1. Annual Salary and Management Type Accessible, Hours Worked and Rate inaccessible 2. Fields Accessible
8	Test Clear Button. Pressing the button should clear all entered fields and selections.	1. Pressed with empty fields. 2. Press with fields entered	1. Fields stay empty 2. Clears all entered fields.
9	Test Add Employee Button. Pressing the button without all necessary fields entered should output "Please fill out all the required fields."	1. All Fields Empty	1. "Please fill out all the required fields"
10	Test Add Employee button. Pressing the button without the Department Selected should output "Please fill out all the required fields."	1. All fields filled out except for department	1. "Please fill out all the required fields"

11	Test Add Employee button. Pressing button without accessible fields for respective employee type should output respective message.	<ol style="list-style-type: none"> 1. Annual Salary empty 2. Rate empty 3. Management type unselected 	<ol style="list-style-type: none"> 1. "Please input valid salary" 2. "Please input a valid hourly rate" 3. "Please select a management type"
12	Test remove employee button. Pressing button should remove employee with matching profile and if the employee does not exist in the database, it should output "Employee does not exist."	<ol style="list-style-type: none"> 1. Remove Existing Employee 2. Remove an employee that does not exist in database 	<ol style="list-style-type: none"> 1. "Employee Removed" 2. "Employee does not exist"
13	Test Set Hours Button. Button should only be available if part time is selected. Should output "Working Hours Set" if successful and "Please input a valid hourly rate" if no hours are entered or in wrong format.	<ol style="list-style-type: none"> 1. Hours Worked Empty 2. "10" 3. "Testing" 4. "-4" 	<ol style="list-style-type: none"> 1. "Please enter a valid number of hours" 2. "Working hours set" 3. "Please enter a valid number of hours" 3. "Working hours cannot be negative"
14	Test File Import. Should import given file and output "Import Error" if file is not a readable txt file.	<ol style="list-style-type: none"> 1. import database.txt 2. import non txt file 	<ol style="list-style-type: none"> 1. "All employees imported into database from file 'database.txt'" 2. "Import error"

15	Test File Export. Should export existing employee database to a txt file.	<ol style="list-style-type: none"> 1. Export with empty database 2. Export with employees in database 	<ol style="list-style-type: none"> 1. Empty file 2. File containing the toString() of each employee in the database
16	Test Print All Employee. Should print all employees in database and if database is empty print "There are no employees in the database"	<ol style="list-style-type: none"> 1. Empty Database 2. Database with employees entered 	<ol style="list-style-type: none"> 1. "There are no employees in the database" 2. Prints all employees in database by order entered.
17	Test Print By Date Hired. Should print all employees in database by date hired and if database is empty print "There are no employees in the database"	<ol style="list-style-type: none"> 1. Empty Database 2. Database with employees entered 	<ol style="list-style-type: none"> 1. "There are no employees in the database" 2. Prints all employees in database by date hired
18	Test Print by Department. Should print all employees in database by department and if database is empty print "There are no employees in the database"	<ol style="list-style-type: none"> 1. Empty Database 2. Database with employees entered 	<ol style="list-style-type: none"> 1. "There are no employees in the database" 2. Prints all employees in database by department

19	Test Calculate Payment button. Button should calculate the payment for all employees in database and output “There are no employees in the database” if there are no employees currently in the database.	1. Empty database 2. Database with employees entered	1. “There are no employees in the database” 2. “Calculation of employee payments is done.”
----	---	---	---