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| **Test Case #** | **Purpose of the test case** | **Input Data** | **Expected Result** |
| 1 | Testing when user imports a file and presses the File Button | input.txt | File selected: input.txt (TextArea) |
| 2 | Testing when user does not import a file and presses the File button | (no file is chosen to import) | Exception Occurred (Alert Dialog Box) |
| 3 | Testing when user inputs correct information for part time employee | Name: Jane, Doe  Department: CS  Employee Type: Part Time  Date: 7/1/2020  Hourly Rate: 45.9  >>ADD Button Clicked | Added part-time employee. (TextArea) |
| 4 | Testing when user inputs correct information for full time employee | Name: Jane, Doe  Department: ECE  Employee Type: Full Time  Date: 1/1/2005  Annual Salary: 85000  >>ADD Button Clicked | Added full-time employee. (TextArea) |
| 5 | Testing when user inputs correct information for management position. | Name: Jane, Doe  Department: IT  Employee Type: Management  Date: 2/28/2012  Annual Salary: 85000  Admin Roles: 1. Manager  >>ADD Button Clicked | Added management position. (TextArea) |
| 6 | Testing when user inputs invalid name for employee. | Name: JaneDoe  Department: IT  Employee Type: Management  Date: 2/28/2012  Annual Salary: 85000  Admin Roles: 1. Manager  >>ADD Button Clicked | ‘JaneDoe’ is not a valid name (first last).’ (Alert Dialog) |
| 7 | Testing when user inputs invalid department code for employee from imported file. | Name: Jane Doe  Department: ece  Employee Type: Management  Date: 2/28/2012  Annual Salary: 85000  Admin Roles: 1. Manager  (from input.txt) | ‘ece’ is not a valid department code. (Alert Dialog) |
| 8 | Testing when user inputs invalid salary for full time/manager employee | Name: Jane Doe  Department: ECE  Employee Type: Management  Date: 2/28/2012  Annual Salary: -1000  Admin Roles: 1. Manager  >>ADD Button Clicked | Salary cannot be negative. (Alert Dialog) |
| 9 | Testing when user inputs invalid pay rate for part time employee | Name: Jane Doe  Department: ECE  Employee Type: Part Time  Date: 2/28/2012  Hourly Rate: -1000  >>ADD Button Clicked | Pay rate cannot be negative. (Alert Dialog) |
| 10 | Testing when user inputs invalid management code from imported file | Name: Jane Doe  Department: ECE  Employee Type: Management  Date: 2/28/2012  Annual Salary: 1000  Admin Roles: 4. Manager  (from input.txt) | Invalid management code. (Alert Dialog) |
| 11 | Testing when user inputs valid working hours for part time employee | Name: Jane Doe  Department: ECE  Employee Type: Part Time  Date: 2/28/2012  Hours Worked: 50  >>SET HOURS Button Clicked | Working hours set. (TextArea) |
| 11 | Testing when user inputs negative working hours for part time employee. | Name: Jane Doe  Department: ECE  Employee Type: Part Time  Date: 2/28/2012  Hours Worked: -1000  >>SET HOURS Button Clicked | Working hours cannot be negative. (Alert Dialog) |
| 12 | Testing when user inputs working hours >100 for part time employee. | Name: Jane Doe  Department: ECE  Employee Type: Part Time  Date: 2/28/2012  Hours Worked: 101  >>SET HOURS Button Clicked | Invalid Hours: over 100. (Alert Dialog) |
| 13 | Testing when user inputs valid information for employee that exists in database. | Name: Jane Doe  Department: CS  Employee Type: Part Time  Date: 7/1/2020  Hourly Rate: 45.9  (employee already in database)  >>ADD Button Clicked | Employee is already in the list (or input was invalid). (TextArea) |
| 14 | Testing when user inputs valid information to remove employee when employee exists in database. | Name: Jane Doe  Department: CS  Employee Type: Part Time  Date: 7/1/2020  Hourly Rate: 45.9  (employee exists in database)  >>REMOVE Button Clicked | Employee removed. (TextArea) |
| 15 | Testing when user inputs valid information to remove employee when employee does not exist in database. | Name: Jane Doe  Department: CS  Employee Type: Part Time  Date: 7/1/2020  Hourly Rate: 45.9  >>REMOVE Button Clicked | Employee doesn’t exist. (TextArea) |
| 16 | Testing when user inputs invalid date. | Name: Jane Doe  Department: CS  Employee Type: Part Time  Date: 2/28/2025  Hourly Rate: 45.9  >>ADD Button Clicked | 2/28/2025 is not a valid date. (Alert Dialog) |
| 17 | Testing when user selects the Print button but database is empty. | Print button is selected | Employee database is empty. (TextArea) |