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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 |
| 2 | Testing when user does not import a file and presses the File button | (no file is chosen to import) | Exception Occurred |
| 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 | Added part-time employee. |
| 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 | Added full-time employee. |
| 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 | Added management position. |
| 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 | ‘JaneDoe’ is not a valid name (first last).’ |
| 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 | ‘ece’ is not a valid department code. |
| 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 | Salary cannot be negative. |
| 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 | Pay rate cannot be negative. |
| 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 | Invalid management code. |
| 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 | Working hours set. |
| 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 | Working hours cannot be negative. |
| 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  Hourly Rate: 101 | Invalid Hours: over 100. |
| 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) | Employee is already in the list (or input was invalid). |
| 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) | Employee removed. |
| 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 | Employee doesn’t exist |
| 16 | Testing when user inputs invalid date. | Name: Jane Doe  Department: CS  Employee Type: Part Time  Date: 2/29/2019  Hourly Rate: 45.9 | 2/29/2019 is not a valid date. |
| 17 | Testing when user selects the Print button but database is empty. | Print button is selected | Employee database is empty. |