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## Test Cases reservation.py :

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| Test Cases # | Description | Test dataset/Input | Expected Output | Actual Output |
| 1  Empty Fields Test Case: | Verifies that the system correctly handles a reservation attempt when one or more required fields are left empty. | Name: ""  Phone Number: ""  Select Date: [Current Date]  Select Time: "12:00"  Number of People: "2"  Table Number: "1" | A message box should appear with the message "Empty Fields" indicating that all fields need to be filled. | Error message displayed.  [ FAIL ] |

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| 2  Invalid Date Test Case: | Checks if the system correctly rejects reservation attempts for past dates. | Name: "John Doe"  Phone Number: "1234567890"  Select Date: [Past Date]  Select Time: "15:00"  Number of People: "4"  Table Number: "3" | A message box should appear with the message "Invalid Date" indicating that the selected date must be today or in the future. | Error message displayed.  [ FAIL ] |

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| 3  Invalid Time Test Case: | Validates that the system correctly handles reservation attempts with an invalid time. | Name: "Jane Smith"  Phone Number: "9876543210"  Select Date: [Current Date]  Select Time: "09:30"  Number of People: "3"  Table Number: "5" | A message box should appear with the message "Invalid Time" indicating that the selected time is not valid.. | Error message displayed.  [ FAIL ] |

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| 4  Invalid Phone Entry Test Case: | Ensures that the system correctly handles reservation attempts with an invalid phone number. | * Name: "Bob Builder" * Phone Number: "abc1234567" * Select Date: [Current Date] * Select Time: "18:00" * Number of People: "6" * Table Number: "7" | A message box should appear with the message "Invalid Phone Number" indicating that the phone number should contain digits only. | Error message displayed.  [ FAIL ] |

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| Test Cases # | Description | Test dataset/Input | Expected Output | Actual Output |
| 5  Valid Reservation Test Case: | Verifies that the system successfully processes a valid reservation attempt | * Name: "Eve Explorer" * Phone Number: "9998887777" * Select Date: [Future Date] * Select Time: "20:00" * Number of People: "8" * Table Number: "4" | A message box should appear with the message "Reservation Successful" indicating that the reservation has been confirmed. | Success message displayed.  [ PASS ] |

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| Test Cases # | Description | Test dataset/Input | Expected Output | Actual Output |
| 6  Time and date and table Slot Already Taken Test Case: | Tests the system's response when attempting to reserve a time and date and table slot that is already reservedPrecondition:Reserve a time and date and table slot in the system to make it unavailable for this test. | * Name: "Grace Guest" * Phone Number: "1239876543" * Select Date: [Already Reserved date] * Select Time: [Already Reserved Time] * Number of People: "5" * Table Number: " Already Reserved table " | A message box should appear with the message "Reservation Failed" indicating that the selected time and date and table slot is already taken, and the user should choose another time or date or table . | Error message displayed.  [ FAIL ] |