**Test Cases for *Main Menu***

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| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| * 1. Main menu is displayed when the program is run. | Click on button | Main menu | PASS |
| 1.2. Display owner maintenance form when the owner maintenance button is clicked | Click on button from main menu | Owner Form | PASS |
| 1.3. Display service type maintenance form when the service type maintenance button is clicked | Click on button from main menu | ServiceType Form | PASS |
| 1.4. Display equipment maintenance form when the equipment maintenance button is clicked | Click on button from main menu | Equipment Maintenance Form | PASS |
| 1.5. Display vehicle maintenance form when the vehicle maintenance button is clicked | Click on button from main menu | Vehicle Maintenance Form | PASS |
| 1.6. Display service maintenance form when the service maintenance button is clicked | Click on button from main menu | Service Maintenance Form | PASS |
| 1.7. Display equipment allocation form when the equipment allocation button is clicked | Click on button from main menu | Equipment Maintenance Form | PASS |
| 1.8. Display the report “Invoices” form when the report “Invoices” button is clicked | Click on button from main menu | Display invoice form | PASS |
| 1.9. Exit the program when the exit button is clicked. | Click on button from main menu | Exit when clicked | PASS |
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**Test Cases for *Printing***

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| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| Produce the report with all requested fields present, correct calculations and for pending services only. | Click on button from print form | Produce the report with all requested fields present, correct calculations and for pending services only. | Produce the report with all requested fields present, correct calculations and for pending services only. |
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**Test Cases for *OwnerTable***

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| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| 3.1. Add a new owner with valid data in all fields. | Christian  Hayward  24 Meor st  Did  02773318599 | Christian  Hayward  24 Meor st  Did  02773318599 | NOT PASS  2773318599 |
| 3.2. Modify an existing owner’s last name with valid data. | James  Jack  43 dixon Road  Lynfield  (09) 4235651 | James  Jack  43 dixon Road  Lynfield  (09) 4235651 | PASS |
| 3.3. Modify an existing owner’s first name with valid data. | Howard  Hugh  102Hepbum Street  Mt Albert  (09) 3222344 | Howard  Wacko  102Hepbum Street  Mt Albert  (09) 3222344 | PASS |
| 3.4. Modify an existing owner’s street address with valid data. | Green  Petter  22 Queens Avenue  (09) 4235651 | Green  Petter  41 James st  (09) 4235651 | Pass |
| 3.5. Modify an existing owner’s suburb with valid data | Stacey  John  1 King Street  Poop  (09) 123 4444 | Stacey  John  1 King Street  Real Suburb  (09) 123 4444 | PASS |
| 3.6. Modify an existing owner’s phone number with valid data. | Stacey  John  1 King Street  Real Suburb  0273318599 | Stacey  John  1 King Street  Real Suburb  0273318599 | PASS |
| 3.7. Delete an existing owner who has no vehicles. | Test | Delete completed | PASS |
| 3.8. Return to main menu. | Click return | Back to main menu | Pass |
| 3.9. Attempt to add a new owner with an invalid last name but with valid data in all other fields. | Earl  Empty  1 King Street  Poop  (09) 123 4444 | Error last name must have a value | PASS |
| 3.10. Attempt to add a new owner with an invalid first name but with valid data in all other fields. | Empty  James  1 King Street  Poop  (09) 123 4444 | Error last name must have value | PASS |
| 3.11. Attempt to add a new owner with an invalid street address but with valid data in all other fields. | Freddy  James  Empty  Poop  (09) 123 4444 | Error Must have street | PASS |
| 3.12. Attempt to add a new owner with an invalid suburb but with valid data in all other fields. | Freddy  James  1 King Street  Empty  (09) 123 4444 | Error Must have suburb | Pass |
| 3.13. Attempt to add a new owner with an invalid phone number name but with valid data in all other fields. | Freddy  James  1 King Street  West  Empty | Error must have phone number | Pass |
| 3.14. Attempt to modify an existing owner with an invalid last name. | Empty  Jack  43 Dixon Road Lynfield  (09) 123 4444 | Error must have last name | FAIL  The record appears in the list now as empty |
| 3.15. Attempt to modify an existing owner with an invalid phone number. | James  Jack  43 Dixon Road Lynfield  Empty | Error must have phone number | FAIL  The record appears in the list now as empty |
| 3.16. Attempt to delete an existing owner who has vehicles. | James  John  1 King Street  Real Suburb  09123444 | Error cannot delete if has assigned vehicles | PASS error message appears  The record appears in the list now as empty |
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**Test Cases for *ServiceType***

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| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| 4.1. Add a new service type with valid data in all fields | Description:  new service  price: 34 | Description:  new service  price: 34 | PASS |
| 4.2. Modify an existing service type’s description with valid data | Description:  WOFrr | Description:  WOFrr | PASS |
| 4.3. Modify an existing service type’s hourly rate with valid data | Valet Service  Hourly rate 28 | Hourly rate 28 | PASS |
| 4.5. Return to main menu | Click return btn | Close | PASS |
| 4.6. Attempt to add a new service type with an invalid description but with valid data in all other fields | Tried to add with description empty | Error message giving info on what went wrong. | PASS |
| 4.7. Attempt to add a new service type with an invalid hourly rate but with valid data in all other fields | Tried to add with Hourly rate empty | Error message giving info on what went wrong. | PASS |
| 4.8. Attempt to modify an existing service type with an invalid description | Tried to update with description empty | Error message giving info on what went wrong. | PASS |
| 4.9. Attempt to modify an existing service type with an invalid hourly rate | Tried to update with description empty | Error message giving info on what went wrong. | PASS |
| 4.10. Attempt to delete an existing service type that has services but no equipment | Tried to delete Oil Change | Error message giving info on what went wrong. | PASS |
| 4.11. Attempt to delete an existing service type that has equipment but no services | Tried to delete Panel Beating | Error message giving info on what went wrong. | PASS |
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**Test Cases for *Equipment***

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| --- | --- | --- | --- |
| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| 5.1. Add a new item of equipment with valid data in all fields | Truck Ram | Truck Ram | PASS |
| 5.2. Modify an existing item of equipment description with | Jump Peeds | Jump Peeds | PASS |
| id data  5.3. Delete an existing item of equipment that is not allocated | Hydraulic Press | Hydraulic Press Deleted | PASS |
| 5.4. Return to main menu | Click Return | Close current page | PASS |
| 5.5. Attempt to add new item of equipment with an invalid description | Empty txt | Error message giving info on what went wrong. |  |
| 5.6. Attempt to modify existing item of equipment description with invalid data | Empty txt | Error message giving info on what went wrong. |  |
| 5.7. Attempt to delete an existing item of equipment that is allocated to a service type | Delete Equipment with equmipentID -14 | Error message giving info on what went wrong. |  |
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**Test Cases for Vehicle**

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| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| 6.1. Add a new vehicle with valid data in all fields | PlateNumber fghhj34  Make honda  Model concerto  FirstName peter  Lastname Hayward | **PlateNumber** fghhj34  **Make** honda  **Model** concerto  **FirstName** peter  **Lastname** Hayward | PASS |
| 6.2. Modify an existing vehicle’s plate number with | Change GH&&53  To XH7754 | Message saying Success  XH7754 | PASS |
| valid data  6.3. Modify an existing vehicle’s make with valid da | Change Toyota make to Honda | Honda | PASS |
| ta  6.4. Modify an existing vehicle’s model with valid data | Change Mirage to Toyota | Message saying Success  -Toyota |  |
| ata  6.5. Delete an existing vehicle that has no services | Was unable to proceed as all vehicles had services |  | FAIL |
| 6.6. Return to main menu | Click return | Return to main menu | PASS |
| 6.7. Attempt to add a new vehicle with an invalid plate number but with valid data in all other fields | Attempted vaild data but empty text field for number plate | Error message giving info on what went wrong. | PASS |
| 6.8. Attempt to add a new Vehicle with an invalid make but with valid data in all other fields | Attempted vaild data but empty text field for Make | Error message giving info on what went wrong. | PASS |
| 6.9. Attempt to add a new Vehicle with an invalid model but with valid data in all other fields | Attempted vaild data but empty text field for model | Error message giving info on what went wrong. | PASS |
| 6.10. Attempt to delete an existing vehicle that has services | Attempted to delete VehicleID 20 | Error message giving info on what went wrong. | PASS |
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**Test Cases for Service**

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| --- | --- | --- | --- |
| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| 7.1. Add a new service with valid data in all fields | VehicleID 1  Service oil change  Date current  Hours 3 | VehicleID 1  Service oil change  Date current  Hours 3 | PASS |
| 7.2. Modify an existing pending service’s hours with valid data | VehicleID 1  ServiceID 1  Date current  Hours 4 | VehicleID 1  ServiceID 1  Date current  Hours 4 | PASS |
| 7.3. Modify an existing pending service’s date with valid data | VehicleID 1  ServiceID 1  Date current  Hours 4 | VehicleID 1  ServiceID 1  Date current  Hours 4 | PASS |
| 7.4. Delete an existing paid service | VehicleID 4  ServiceID 1  Date current  Hours 4 | Deleted | PASS |
| 7.5. Return to main menu | Click button return | Close page | PASS |
| 7.6. Attempt to add a new service with an invalid vehicle but with valid data in all other fields | “please select an option on combo box” | Error message giving info on what went wrong. | FAIL |
| 7.7. Attempt to add a new service with an invalid date but with valid data in all other fields | Current date | Impossible to enter invalid date | PASS |
| 7.8. Attempt to add a new service with an invalid status but with valid data in all other fields | --- |  |  |
| 7.9. Attempt to modify an existing pending service with an invalid hours | Empty hours text box | Error message giving info on what went wrong. | PASS |
| 7.10. Attempt to delete an existing pending service | Tried to delete  vehicleID 1  Service id 1  Statu pending | Error message giving info on what went wrong. |  |
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**Test Cases for Equipment Allocation**

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| **Requirement to test** | **Test Data Input** | **Expected Outcomes** | **Actual Outcomes** |
| 8.1. Allocate an item of equipment (not already allocated) to a service type | Trolly Jack to SprayPainting | Message saying success  Trolly Jack to SprayPainting | PASS |
| 8.2. Remove an item of equipment from a service type | Remove Wheel balancing from Full Service | Wheel balancing is removed from Full Service | PASS |
| 8.3. Return to main menu | Click Return | Closed form | PASS |
| 8.4. Attempt to allocate an item of equipment to a service type that has already been allocated to that service type | Allocate  Transmission Jack to transmission service | Error message giving info on what went wrong. | PASS |
|  |  |  |  |