Graphical user interface

Description automatically generated

1. **Appointment Time (Combo box) –** Contains the available time slot for the user.
   * If a slot is added on the grid, it will remove the slot taken.
   * Add button is disabled not unless user chooses an appointment slot.
   * Binded to AppointmentTime (int).
2. **Name (Textbox) –** Customer name to be inputted.
   * Any string is accepted.
   * Binded to CustomerName (string).
3. **Credit Card No (Textbox) –** Credit Card number to be inputted.
   * Only numeric are accepted.
   * Validation Rule is applied to this field.
     1. Only numeric and total of 16 digits should be inputted.

* Binded to CreditCardNo (decimal)

1. **Laptop Type (Combo box) –** Contains the types of laptops available in the market.
   * Contains Netbook, Notebook, UltraBook, and Gaming Laptop.
   * Binded to LaptopType (string).
2. **Brand (Combo box) –** Contains the available laptop brands in the market.
   * Contains all brands (Asus, Lenovo, Dell, MSI, Alienware etc.)
   * Binded to Brand (string).
3. **Model (Textbox) –** Model to be inputted by the user.
   * Decided that this will be user input as there will be lots of possible model.
   * Binded to Model (string).
4. **Work Done –** Contains the available work that can be done on the laptop.
   * Binded to WorkDone (string).
5. **Work Per Type (Textbox) –** This field is not editable.
   * This will have a value depending on what type of laptop the user chose.
   * Every laptop type has its own special work.
6. **Technician (Textbox) –** Technician name who worked on the laptop.
   * Binded to TechnicianName (string).
7. **Add (Button) –** This will transfer the data from the field to the datagrid.
   * On default, this is disabled. It will be enabled once an appointment slot is chosen.
   * This will bind the datagrid to TempAppointment (ObservableCollection).
   * This will not add data on the datagrid if the field has some empty values.
   * If the datagrid has value from clicking the search button, it will remove the retrieve value from the datagrid and replace it with the ones in the field.
8. **Search By (Combo box) –** Contains the searching parameter for retrieving values from XML.
   * LINQ was applied in searching.
   * Will show an error when trying to search with empty choice in combo box.
   * Choices are ALL, Customer Name, Laptop Brand, and Technician Name.
9. **Search (Textbox) –** Can input search parameter.
   * If customer name is chosen in the combo box, this field can be inputted on what name you want to search.
10. **Search (Button) –** Trigger the search.
    * Will retrieve data from XML.
    * Searching is case insensitive.
11. **Save (Button) –** Trigger the saving of data from the grid.
    * This will save data from the datagrid.
    * This will also save the retrieved data when updated in the datagrid.
    * Data will be saved as an XML.
    * Default saving will be used when saving the file (\bin\Debug\net5.0-windows\Appointment.xml)
12. **Datagrid –** Main grid for the retrieving and saving from and to XML.
    * Fields inside the grid are updatable as they are all binded to their respected objects.
    * Only the appointment time is not updatable as it was decided that appointment skit should not be change.

**VALIDATION:**

**Graphical user interface, application

Description automatically generated**

**Graphical user interface, application

Description automatically generated**

Added validation rule on credit card field.

* Only numeric are allowed.
* 16 characters exactly should be entered.

Graphical user interface, application

Description automatically generated

Conditional validation added on search combo box.

* User should select on one of the choices.

**Datagrid:**

**Table

Description automatically generatedTable

Description automatically generated**

**Fields inside the datagrid:**

1. **Time (datagrid combo box)  -** Not editable but binded to AppointmentTime (int).
2. **Name (datagrid textbox) A picture containing graphical user interface

   Description automatically generated –** Editable and binded to CustomerName (string).
3. **Credit Card (datagrid textbox) A picture containing graphical user interface

   Description automatically generated –** Editable and binded to CreditCardNo (string).
4. **Type (datagrid combo box) Graphical user interface, text, application

   Description automatically generated –** Editable and binded to LaptopType (string).
5. **Brand (datagrid combo box) Graphical user interface, application

   Description automatically generated with medium confidence –** Editable and binded to Brand (string).
6. **Model (datagrid combo box) A close-up of a sign

   Description automatically generated with low confidence –** Editable and binded to Model (string).
7. **Work Done (datagrid combo box) Graphical user interface, text, application

   Description automatically generated –** Editable and binded to WorkDone (string).
8. **Technician (datagrid textbox) Graphical user interface

   Description automatically generated with medium confidence –** Editable and binded to TechnicianName (string).