**Step 1. Clearly define what the application will do.**

**Purpose**: A program that allows users to select items from a store and add it to their virtual basket, along with the items price.

**Output:** Description of the state the user selected.

**Input:** Selecting an item from the drop down menu.

**Process**: When a user clicks an item from the list box, it will add that item to the combo box or the, “basket”

**Step 2. Design the GUI**

petShopLabel basketLabel

basketComboBox

userInputLabel

inputTextBox

listItemBox

addItemLabel

clearButton

searchButton

removeButton

addButton

sortButton

exitButton

**Step 3 Make a list of the controls needed.**

**Define the values of each controls relevant properties**

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| **Name** | **Description** | **Text** |
| petShopForm | Form that holds all the objects. | Pet Shop |
| menuStrip | Displays several shorts for user, including changing the background color. |  |
| petPictureBox | Shows image of item from the list. |  |
| enterItemLabel | Text tells user to add item to list. | “Enter the item to be added to the shopping list.” |
| enterItemTextBox | Text box for user to add item. |  |
| viewListLabel | Text tells user to view list and add to basket. | “View shopping list and ADD to your basket.” |
| listComboBox | Allows user to select item to add to the basket. |  |
| basketLabel | Label for the basket. | “Basket” |
| petShopLabel | Title | “Pet Shop” |
| basketListBox | Holds items selected from listComboBox |  |
| addButton | Button that adds items to users shopping list. | “Add to list” |
| rmButton | Removes items from shopping list. | “Remove” |
| clearButton | Clears enterItemTextBox and basketListBox | “Clear” |
| searchButton | Displays a search box for user to find item on shopping list. | “Search” |
| exitButton | Exits the program | “Exit” |
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**Step 4 Make a list of the methods needed for each control**

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| **Method** | **Description** |
| redToolStripMenuItem\_Click | Sets background color to red. |
| greenToolStripMenuItem\_Click | Sets back color to green. |
| blueToolStripMenuItem\_Click | Sets back color to blue. |
| resetToolStripMenuItem\_Click | Sets back color to control. |
| caliRadioButton\_CheckedChanged | When clicked, displays in the state group box information for California. |
| clearButton\_Click | Will clear combo and picture box. |
| exitButton\_Click | Exits app |
| itemComboBox\_SelectedIndexChanged | Displays and adds certain information depending on what index is selected. |
| addButton\_Click | Add items from the textbox to the list. |
| rmButton\_Click | Removes selected item from list box and clears the picture box. |
| printToolStripMenuItem\_Click | Displays error message. |
| clearButton\_Click | Clears all entries in the combo box and the picture box. |
| sortButton\_click | Sorts items in the list box alphabetically. |
| searchButton\_Click | Searches for items in the combo box when prompted. |
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