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

**Purpose**: A program that acts like a simple word processor that allows user to input text files, add text into rich text box, copy, cut, paste, and select work availability using a calendar.

**Output:** Text displaying in the rich textbox.

**Input:** Selecting files to input into textbox, selecting dates, in calendar, copy and paste buttons,

**Process**: When a user opens a text file, the text will display in the text box. After selecting availability on a calendar, the dates will display as text into the rich text box.

**Step 2. Design the GUI**

File Menu

bookListView

titleLabel

ComboBox

categoryPictureBox 

bookSelectionComboBox

addButton

removeButton

availableBooksListBox

selectedBookPictureBox

clearCartButton

totalCostLabel

bookPriceLabel

finalizeButton

clearAllButton

exitButton

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

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

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Text** |
| storeForm | Holds all objects. | Tim’s Bookstore |
| titleLabel | Title for app | Discount Book Place |
| bookPriceLabel | Shows price of selected book |  |
| addButton | Adds item to cart | Add to Shopping Cart |
| removeButton | Remove Item | Removes item from shopping cart |
| clearCartButton | Removes items from shopping cart | Clear Shopping Cart |
| totalCostLabel | Displays the total cost |  |
| finalizeButton | Prints items to receipt | Finalize the sales |
| clearAllButton | Clears all fields | Clear All |
| exitButton | Exits app | Exit |
| bookSelectionGroupBox | Group Box that contains selection objects |  |
| shippingCostLabel | Displays total price |  |
| totalShippingLabel | Displays following | Total Shipping |
| bookListView | List view containing information for the book |  |
| pictureBox1 | Holds image for category of books. |  |
| pictureBox2 | Holds image for specific book selected. |  |

**Step 4 Make a list of the methods needed for each control**

|  |  |
| --- | --- |
| **Method** | **Description** |
| bookSelectionComboBox\_SelectedIndexChanged | Populates the combo box with items and assigns prices |
| removeButton\_Click | Removes items from combo box cart and adjusts totals. |
| bookListBox\_SelectedIndexChanged | Populates the list box with certain values for the books |
| addButton\_Click | Adds items to the cart and the list view. |
| finalizeButton\_Click | Makes certain objects visible |
| clearCartButton\_Click | Clears cart of any items, sets totals to zero. |
| clearAllButton\_Click | Makes certain objects invisible, clears the cart, basically starts the app from scratch. |
| exitButton\_Click | Exits the program |
| clearAllToolStripMenuItem\_Click | Uses clear all method |
| exitToolStripMenuItem\_Click | Uses exit button method |