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## Assignment – 2

### PROG32356 – .NET Technologies using C#

#### Instructor: Mahboob Ali

**Note:**

1. Assignment must be completed as an individual effort. Do not collaborate with anyone or share it with any individual, party or entity.
2. Due date for submission is specified in SLATE.
3. All online submissions will be done via SLATE (Email submissions will NOT be accepted).
4. Late assignments will be penalized 10% each day for up to 3 days. After that, it is worth 0.
5. Corrupt/incorrect submissions will be graded accordingly (depending upon how much the application is completed).
6. Please refer to the [Academic Integrity Policy](#).
7. Refer to the School of Applied Computing's Academic Procedures for Evaluations for more details regarding missed work: [Procedures for Evaluations](#).
8. If you take code-snippets from external sources such as StackOverflow, make sure to provide references to the source's webpage as comments in your code.

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**Instructions:**

1. Make a **WPF App** in Visual Studio and name it as **A2YourFirstnameLastname**.
2. You are going to make a Pizza Ordering System.
3. Your application should be able to create and order, confirm your order, and then make the payment.
4. Your application should be having tabs,
  - Place your order tab.
  - Confirm your order tab.
  - Customer information tab.
  - Make payment tab.

**Place your order tab:**

1. The application should have multiple sections to chose from,
  - a. Pizza Size (Fix the price for each Pizza size)
    - i Small - \$7.00
    - ii Medium - \$10.00
    - iii Large - \$13.00
    - iv Extra Large - \$15.00
  - b. Crust Type
    - i Normal

- ii Thin
  - iii Deep Dish
- c. Toppings (Each topping is going to cost extra \$1.10)
  - i Pineapple
  - ii Extra Cheese
  - iii Dried Shrimps
  - iv Mushrooms
  - v Anchovies
  - vi Sun Dried Tomatoes
  - vii Dacon
  - viii Spinach
  - ix Roasted Garlic
  - x Jalapeno
  - (Meat type toppings cost \$2.15 Each)
  - xi Ground Beef
  - xii Shredded Chicken
  - xiii Grilled Chicken
  - xiv Pepperoni
  - xv Ham
  - xvi Bacon
- d. Drinks (All drinks cost \$2.99 each, water cost \$1.99)  
Your application should also ask the quantity of the drinks for each drink.
  - i Coke
  - ii Diet Coke
  - iii Iced Tea
  - iv Ginger Ale
  - v Sprite
  - vi Root Beer
  - vii Water
- e. Other Items
  - i Chicken Wings
    - 1 5 for \$6.99
    - 2 10 for \$11.99
    - 3 20 for \$22.99
  - ii Poutine - \$5.29
  - iii Onion Rings
    - 1 Small for \$3.99
    - 2 Medium for \$5.99
  - iv Cheesy Garlic Bread for \$5.69
  - v Garlic Dip for \$0.50
  - vi BBQ Dip for \$0.50
  - vii Sour Cream for \$0.50

2. You should also have Confirm Order Button.

- a. Upon clicking the button your application should create an object of Order and store the information in it.

- b. Your application should also switch from Place your Order tab to Confirm your Order.

**Confirm Your Order tab:**

1. This tab of the application should have a table to show the details of your order.
2. A text box to show amount before taxes (non-modifiable)
3. A text box to show HST (non-modifiable field)
4. A text box to show Total Amount (non-modifiable field)
5. Order Again button
  - a. Upon clicking on this button, the system should create a new object for the order and take another order.
6. Clear order button
  - a. Upon clicking on this button, the system should clear the order which was saved and start a new order from the Place your order tab.
7. Check out button
  - a. Upon clicking on this button, the system should proceed to the last tab of make payment.

**Make Payment tab:**

1. Group – 1: collects the information about customer. (\* - required information)
  - a. \*First Name
  - b. \*Last Name
  - c. \*Address
  - d. Province
  - e. City
  - f. \*Postal Code
  - g. \*Contact no
  - h. Email
2. Group – 2: collects the information for the payment method
  - a. \*Payment Method (Dropbox/ DropDown Menu)
    - i. Cash
    - ii. Master Card
    - iii. Visa Card
    - iv. Amex Card
  - b. \*Card No
  - c. Amount Due (non-modifiable field)
  - d. \*Amount Paid
  - e. Change
3. Pay button which will complete the order
  - a. Should open a new window with confirmation of the payment is made successfully
4. Submit Order
  - a. Should open a new window with information to the client that it will take 20 minutes approximately to complete the order.
5. Go Back
  - a. Should take you back to Confirm your order tab and clear all the information for the customer if any provided.

**Model Classes:**

1. Order class to store the order information.
2. Customer class to store the client information.

3. Pizza class to store the pizza items and prices.
4. Choose an appropriate data structure if required to store multiple orders.

**Note:**

- Students must design their own output windows.
- Your design should proper look for the application
- Use groupings for different sections.
- You are encouraged to share your designs via MS Teams to get a second thought.
- Students are also encouraged to share their designs for the code.

**Marks Breakdown:**

- 10% - for correct submission.
- 50% - For each tab completely.
- 20% - Designing of the code.
- 20% - Proper classes created.

**Submission:**

1. Once done, **ZIP the entire project folder** and upload it to **Assignments** on SLATE.  
**a. Double-check your submission by downloading it and running it.**
2. You are to submit .ZIP and .TXT files, separately:  
**a.** Upload the **.ZIP** file of your assignment to SLATE.  
**b.** Upload the **.TXT** files to SLATE.
3. You must copy and paste all of your source code from your C# files into plain text files.  
**a.** You can copy and paste the source code into Notepad.  
**b.** Create a separate .TXT file for each source code file.  
**c.** No need to copy-paste the XAML code.
4. You do not have to format this code - it's used by TurnItIn (the originality checker in SLATE, which is a piece of software that checks your submission for plagiarism against other submissions in the college, in other colleges, from the web, and various other sources).
5. Submit this document in addition to your assignment ZIP file.  
**a.** DO NOT add it inside your zip/rar file - it must be a separate file.  
**b.** This is used for TurnItIn (it won't examine the contents of zip/rar files).