

CIS 400 Practice Exam II

Name: _____ WID: _____ Section: _____

Vocabulary

The following questions deal with object-orientation on the theoretical level, not a specific language

Q1. What is event-driven programming?

Confidence (circle one): very confident - (5) (4) (3) (2) (1) - Not confident at all

Q2. What is the purpose of data binding?

Confidence (circle one): very confident - (5) (4) (3) (2) (1) - Not confident at all

Q3. What does the term aggregation refer to?

Confidence (circle one): very confident - (5) (4) (3) (2) (1) - Not confident at all

C# Keywords

The following questions deal specifically with the C# language

Q4. What is a “partial” class?

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Q5. What does the “is” keyword used for?

Confidence (circle one): very confident - (5) (4) (3) (2) (1) - Not confident at all

Q6. What does the INotifyPropertyChanged interface do?

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Coding Questions

The following questions deal with this XAML:

```
<Page x:Class="PointOfSale.CustomizeTarPit"
      xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
      xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
      xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
      xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
      xmlns:local="clr-namespace:PointOfSale"
      mc:Ignorable="d"
      d:DesignHeight="450" d:DesignWidth="600"
      Title="CustomizeTarPit">

    <Grid>
        <Grid.RowDefinitions>
            <RowDefinition Height="20"/>
            <RowDefinition/>
            <RowDefinition/>
            <RowDefinition/>
        </Grid.RowDefinitions>
        <Grid.ColumnDefinitions>
            <ColumnDefinition/>
            <ColumnDefinition/>
            <ColumnDefinition/>
        </Grid.ColumnDefinitions>
        <TextBlock Text="Customize TarPit" Grid.ColumnSpan="3" TextAlignment="Center"/>
        <ContentControl Grid.Row="1" Grid.Column="0">
            <ContentControl.ContentTemplate>
                <DataTemplate>
                    <Border BorderBrush="Black" BorderThickness="4">
                        <TextBlock Text="{Binding Path=Description}"
                                FontSize="24"/>
                    </Border>
                </DataTemplate>
            </ContentControl.ContentTemplate>
        </ContentControl>
        <Button Name="Flavor" Click="OnClickFlavor" Grid.Row="1" Grid.Column="1">
            Pick Flavor
        </Button>
        <Button Name="Small" Click="OnClickSmall" Grid.Row="2" Grid.Column="0"
            Background="Gold">
            Small
        </Button>
        <Button Name="Medium" Click="OnClickMedium" Grid.Row="2" Grid.Column="1"
            Background="LightGray">
            Medium
        </Button>
        <Button Name="Large" Click="OnClickSmall" Grid.Row="2" Grid.Column="2"
            Background="LightGray">
            Large
        </Button>
    </Grid>
</Page>
```

Q7. Complete the Code-Behind:

```
namespace PointOfSale
{
    /// <summary>
    /// Interaction logic for CustomizeTarPit.xaml
    /// </summary>
    public partial class CustomizeTarPit : Page
    {
        private TarPit tarpit;

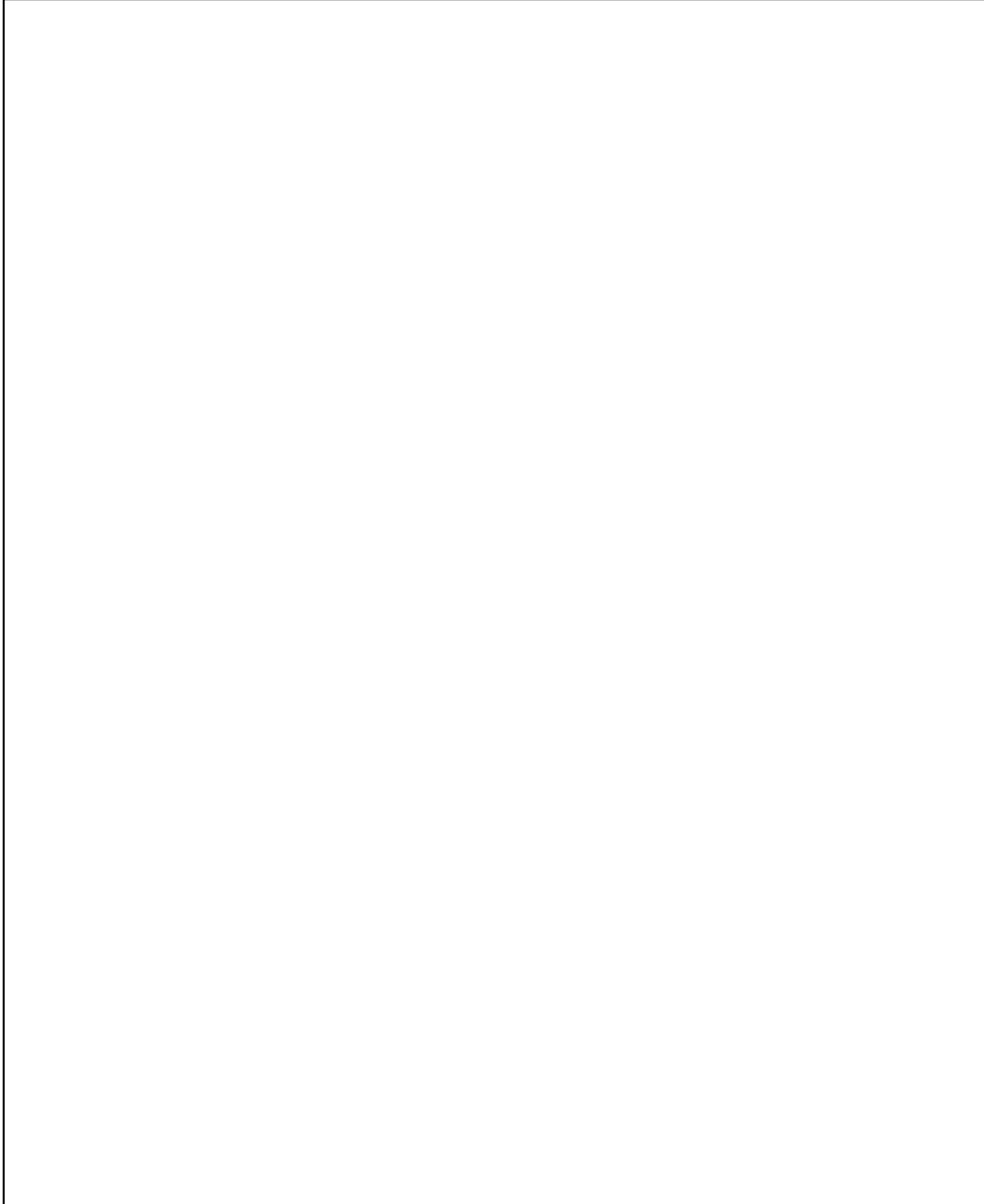
        /// <summary>
        /// Initializes the CustomizeTarPit page
        /// </summary>
        /// <param name="tarpit">The TarPit to customize</param>
        public CustomizeTarPit(TarPit tarpit)
        {
            
        }

        /// <summary>
        /// Sets the current size button to have a Gold background,
        /// and the other size buttons to LightGray backgrounds
        /// </summary>
        private void SetSizeColors()
        {
            
        }

        /// <summary>
        /// Sets the TarPitSize to small
        /// </summary>
        private void OnClickSmall(object sender, RoutedEventArgs args) {
            
        }
    }
}
```

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Q8. Draw the CustomizeTarPit Page defined in the XAML as it will appear on-screen:

A large, empty rectangular box with a thin black border, intended for drawing the visual representation of the CustomizeTarPit Page as defined in XAML.

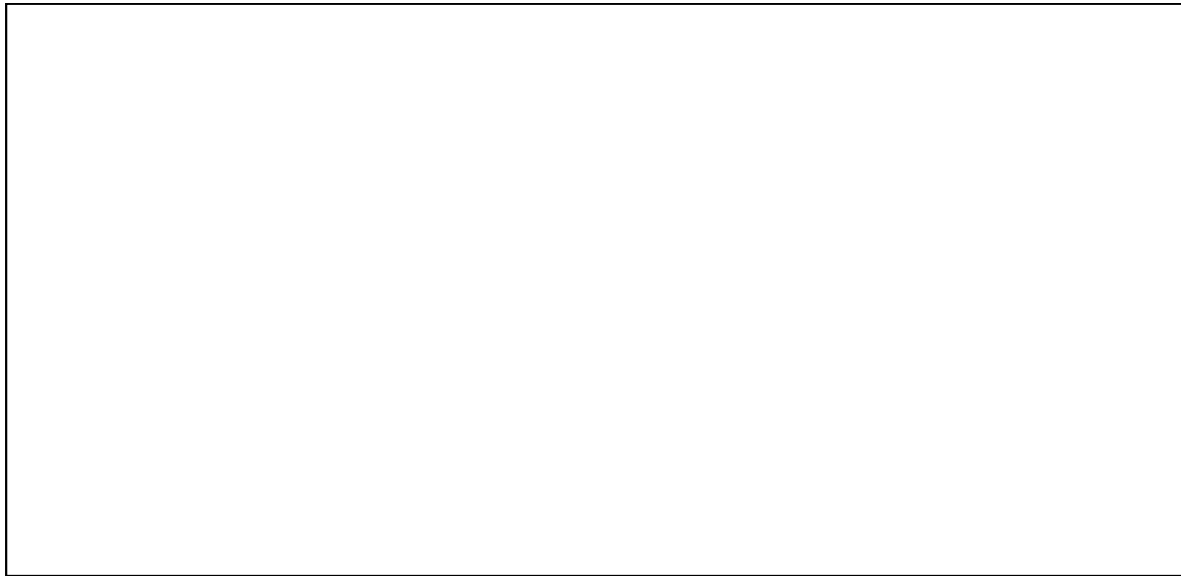
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- Q9. Write an implementation of TarPit, assuming the small price is \$3, medium \$4, and large \$5. It should have a Size property corresponding to the Size enum (Small, Medium, and Large). It should also have a Flavor property from the TarPitFlavor enum (Chocolate, Caramel, and Oreo). It should implement a Description field that identifies it as a **[size] [flavor] TarPit**, where [size] and [flavor] are replaced with the actual size and flavor. Finally, it should implement the INotifyPropertyChanged interface.

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Q10. Write a DataTemplate in XAML to display a bound TarPit object's Flavor and Size:

`<DataTemplate>`



`</DataTemplate>`

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