







	Baby Batman Units on Hand: \$15.99
	Green Lantern Units on Hand: \$18.99
	Flash Units on Hand: \$25.00
	Batman Units on Hand: \$17.55
	Combo Tshirt Units on Hand: \$18.00
	Captain America Units on Hand: \$20.55
	DC Units on Hand: \$17.99
	Wolverine



Id

2542

Name

Captain America

Description

50% Cotton. Double hemmed sleeve

Unit Price

\$20.55

On Hand

10

Edit Product

Tshirt Id

2542

Name

Captain America

Long Description

50% Cotton. Double hemmed sleeves

Size

Medium

Color

Blue

Unit Price

\$20.55

Stock on Hand

10

Save Tshirt

Delete Tshirt



```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using TshirtStockMgtApp;
using TshirtStockMgtApp.DAL;
using TshirtStockMgtApp.Model;
```

```
namespace Driver
```

```
{
    class Program
    {
        private static TshirtRepository _tshirtRepository = new TshirtRepository();
        static void Main(string[] args)
        {
            List<Tshirt> _list = new List<TshirtStockMgtApp.Model.Tshirt>();
            _list = _tshirtRepository.GetTshirts();
            foreach (var item in _list)
            {
                Console.WriteLine(item.TshirtID);
            }
            Console.ReadKey();
        }
    }
}
```

```
using System;
using System.Collections.Generic;
using System.Collections.ObjectModel;
using System.ComponentModel;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Input;
using TshirtStockMgtApp.App.Messages;
using TshirtStockMgtApp.App.Services;
using TshirtStockMgtApp.App.Utility;
using TshirtStockMgtApp.Model;
```

```
namespace TshirtStockMgtApp.App.ViewModel
```

```
{
    public class TshirtDetailViewModel
    {
        public event PropertyChangedEventHandler PropertyChanged;
```

```

private void RaisePropertyChanged(string propertyName)
{
    if (PropertyChanged != null)
        PropertyChanged(this, new PropertyChangedEventArgs(propertyName));
}
private Tshirt _selectedTshirt;
private TshirtDataService _tshirtDataService;
//public ObservableCollection<Category> Categories { get; set; }
public ICommand SaveCommand { get; set; }
public ICommand DeleteCommand { get; set; }

public Tshirt SelectedTshirt
{
    get { return _selectedTshirt; }
    set
    {
        _selectedTshirt = value;
        RaisePropertyChanged("SelectedTshirt");
    }
}

public TshirtDetailViewModel()
{
    SaveCommand = new CustomCommand(SaveTshirt, CanSaveTshirt);
    DeleteCommand = new CustomCommand(DeleteTshirt, CanDeleteTshirt);
    Messenger.Default.Register<Tshirt>(this, OnTshirtReceived);
    _tshirtDataService = new TshirtDataService();
    //LoadCategories();
}

//private void LoadCategories()
//{
//    Categories = _categoryDataService.GetCategories().ToObservableCollection();
//}

private void OnTshirtReceived(Tshirt tshirt)
{
    SelectedTshirt = tshirt;
    //SelectedCategory = _categoryDataService.GetCategory(SelectedTshirt.CategoryID);
}

private bool CanDeleteTshirt(object obj)
{
    return true;
}

```

```

private void DeleteTshirt(object obj)
{
    _tshirtDataService.DeleteTshirt(SelectedTshirt);
    Messenger.Default.Send<UpdateListMessage>(new UpdateListMessage());
}

private bool CanSaveTshirt(object obj)
{
    return true;
}

private void SaveTshirt(object obj)
{
    //SelectedTshirt.CategoryID = SelectedCategory.CategoryID;
    _tshirtDataService.UpdateTshirt(SelectedTshirt);
    Messenger.Default.Send<UpdateListMessage>(new UpdateListMessage());
}
}
}

```

```

using System;
using System.Collections.Generic;
using System.Collections.ObjectModel;
using System.ComponentModel;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Input;
using TshirtStockMgtApp.App.Extensions;
using TshirtStockMgtApp.App.Messages;
using TshirtStockMgtApp.App.Services;
using TshirtStockMgtApp.App.Utility;
using TshirtStockMgtApp.Model;

```

```

namespace TshirtStockMgtApp.App.ViewModel
{
    public class TshirtOverviewViewModel : INotifyPropertyChanged
    {
        public event PropertyChangedEventHandler PropertyChanged;
        private TshirtDataService _tshirtDataService;
        private DialogService _dialogService;

        public ICommand EditCommand { get; set; }
        private void RaisePropertyChanged(string propertyName)
        {
            if (PropertyChanged != null)

```

```

        PropertyChanged(this, new PropertyChangedEventArgs(propertyName));
    }
    private ObservableCollection<Tshirt> _tshirt;
    public ObservableCollection<Tshirt> Tshirt
    {
        get
        {
            return _tshirt;
        }
        set
        {
            _tshirt = value;
            RaisePropertyChanged("Tshirts");
        }
    }
    private Tshirt _selectedTshirt;
    public Tshirt SelectedTshirt
    {
        get
        {
            return _selectedTshirt;
        }
        set
        {
            _selectedTshirt = value;
            RaisePropertyChanged("SelectedTshirt");
        }
    }
    public TshirtOverviewViewModel()
    {
        _tshirtDataService = new TshirtDataService();
        LoadData();
        LoadCommands();
        Messenger.Default.Register<UpdateListMessage>(this, OnUpdateListMessage);
        _dialogService = new DialogService();
    }

    private void OnUpdateListMessage(UpdateListMessage obj)
    {
        LoadData();
        _dialogService.CloseDialog();
    }

    private void LoadCommands()
    {
        //initialize my command
    }

```

```

        //Action is the code to invoke when the command is invoked
        //CanExecute is the predicate that determines if the command can be executed.
        EditCommand = new CustomCommand(EditTshirt, CanEditTshirt);
    }

    private bool CanEditTshirt(object obj)
    {
        if (SelectedTshirt != null)
            return true;
        return false;
    }

    private void EditTshirt(object obj)
    {
        Messenger.Default.Send<Tshirt>(SelectedTshirt);
        _dialogService.ShowDialog();
    }

    private void LoadData()
    {
        Tshirt = _tshirtDataService.GetAllTshirts().ToObservableCollection();
    }
}

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using TshirtStockMgtApp.App.ViewModel;

namespace TshirtStockMgtApp.App
{
    public class ViewModelLocator
    {
        private static TshirtOverviewViewModel _tshirtOverviewViewModel = new
TshirtOverviewViewModel();
        private static TshirtDetailViewModel _tshirtDetailViewModel = new
TshirtDetailViewModel();

        public static TshirtOverviewViewModel TshirtOverviewViewModelInstance
        {
            get
            {

```

```

        return _tshirtOverviewViewModel;
    }
}

public static TshirtDetailViewModel TshirtDetailViewModel
{
    get
    {
        return _tshirtDetailViewModel;
    }
}
}
}

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using TshirtStockMgtApp;
using TshirtStockMgtApp.Model;

```

```

namespace TshirtStockMgtApp.DAL
{
    public interface ITshirtRepository
    {
        //define interface for tshirt
        void DeleteTshirt(Tshirt tshirt);
        Tshirt GetATshirt();
        Tshirt GetByTshirtID(string tshirtID);
        List<Tshirt> GetTshirts();
        void UpdateTshirts(Tshirt tshirt);
    }
}

```

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using TshirtStockMgtApp.Model;

namespace TshirtStockMgtApp.DAL
{
    public class TshirtRepository : ITshirtRepository

```

```

{
    private static List<Tshirt> _lstTshirts;

    public TshirtRepository()
    {

    }

    public void DeleteTshirt(Tshirt tshirt)
    {
        _lstTshirts.Remove(tshirt);
        using (connTshirtsEntities ctx = new connTshirtsEntities())
        {
            try
            {
                string qry = "DELETE FROM Tshirts WHERE tshirtID={0}";
                var rows = ctx.Database.ExecuteSqlCommand(qry, tshirt.TshirtID);
            }
            catch (System.Exception)
            {

            }
        }
    }

    public Tshirt GetATshirt()
    {
        if (_lstTshirts == null)
            LoadTshirts();
        return _lstTshirts.FirstOrDefault();
    }

    public Tshirt GetByTshirtID(string tshirtID)
    {
        if (_lstTshirts == null)
            LoadTshirts();
        return _lstTshirts.Where(t => t.TshirtID == tshirtID).FirstOrDefault();
    }

    public List<Tshirt> GetTshirts()
    {
        if (_lstTshirts == null)
            LoadTshirts();
        return _lstTshirts;
    }
}

```



```

private void LoadTshirts()
{
    using (connTshirtsEntities ctx = new connTshirtsEntities())
    {
        _lstTshirts = ctx.Tshirts.ToList();
    }
}

public void UpdateTshirts(Tshirt tshirt)
{
    Tshirt tshirtToUpdate = _lstTshirts.Where(p => p.TshirtID==
tshirt.TshirtID).FirstOrDefault();
    tshirtToUpdate = tshirt;

    using (connTshirtsEntities ctx = new connTshirtsEntities())
    {
        try
        {
            string qry = "UPDATE Tshirts SET TshirtID={0}, ShortDescription={1},
Longdescription={2}, Image={3}, Size={4}, Color={5}, UnitPrice={6}, InStock={7} ";
            var rows = ctx.Database.ExecuteSqlCommand(qry, tshirt.TshirtID,
tshirt.ShortDescription, tshirt.LongDescription, tshirt.Image, tshirt.Size, tshirt.Color,
tshirt.UnitPrice, tshirt.InStock);
        }
        catch (System.Exception)
        {

        }
    }
}
}

```

```

<Window x:Class="TshirtStockMgtApp.App.View.TshirtDetailView"
    xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
    xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
    xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
    xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
    xmlns:local="clr-namespace:TshirtStockMgtApp.App.View"
    xmlns:i="http://schemas.microsoft.com/expression/2010/interactivity"
    mc:Ignorable="d"
    DataContext="{ Binding Source={ StaticResource mainViewModelLocator },
Path=TshirtDetailViewModel }"
    Title="TshirtDetailView" Height="431.2" Width="1042.15">

```

```

<ScrollView>
  <Grid Margin="0" Height="403" Background="Lavender">
    <Grid.ColumnDefinitions>
      <ColumnDefinition Width="150"></ColumnDefinition>
      <ColumnDefinition Width="2*"></ColumnDefinition>
      <ColumnDefinition Width="*"></ColumnDefinition>
    </Grid.ColumnDefinitions>
    <Grid.RowDefinitions>
      <RowDefinition Height="65"></RowDefinition>
      <RowDefinition Height="30"></RowDefinition>
      <RowDefinition Height="30"></RowDefinition>
      <RowDefinition Height="80"></RowDefinition>
      <RowDefinition Height="30"></RowDefinition>
      <RowDefinition Height="30"></RowDefinition>
      <RowDefinition Height="30"></RowDefinition>
      <RowDefinition Height="30"></RowDefinition>
      <RowDefinition Height="50"></RowDefinition>
    </Grid.RowDefinitions>
    <Label Grid.Row="0" Name="lblTshirtName" Content="{ Binding ShortDescription}"
Grid.ColumnSpan="2" FontSize="40" FontWeight="Bold"></Label>

    <Image Name="imgTshirt" Grid.Column="2" Source="{ Binding SelectedTshirt.Image,
Converter={ StaticResource localImageConverter }}"
      Grid.RowSpan="10" MaxHeight="150" MaxWidth="150"></Image>
    <Label Grid.Row="1" Content="Tshirt Id" Style="{ StaticResource styleLabel}"/>
    <Label Grid.Row="2" Content="Name" Style="{ StaticResource styleLabel}"
VerticalAlignment="Center"/>
    <Label Grid.Row="3" Content="Long Description" Style="{ StaticResource
styleLabel}"/>
    <Label Grid.Row="4" Content="Size" Style="{ StaticResource styleLabel}"/>
    <Label Grid.Row="5" Content="Color" Style="{ StaticResource styleLabel}"/>
    <Label Grid.Row="6" Content="Unit Price" Style="{ StaticResource styleLabel}"
Grid.RowSpan="2"/>
    <Label Grid.Row="7" Content="Stock on Hand" Style="{ StaticResource styleLabel}"/>

    <TextBox Background="Bisque" Grid.Row="1" Grid.Column="1" Text="{ Binding
SelectedTshirt.TshirtID}" Name="txtTshirtID"></TextBox>
    <TextBox Background="Bisque" Grid.Row="2" Grid.Column="1" Text="{ Binding
SelectedTshirt.ShortDescription}" Name="txtName" AcceptsReturn="True" Height="75"
Style="{ StaticResource styleTextBox}"/>
    <TextBox Background="Bisque" Grid.Row="3" Grid.Column="1" Text="{ Binding
SelectedTshirt.LongDescription}" TextWrapping="Wrap" Name="txtLongDesc"
Style="{ StaticResource styleTextBox}"/>
    <TextBox Background="Bisque" Grid.Row="4" Grid.Column="1" Text="{ Binding
SelectedTshirt.Size}" TextWrapping="Wrap" Name="txtSize" Style="{ StaticResource
styleTextBox}"/>

```

```

        <TextBox Background="Bisque" Grid.Row="5" Grid.Column="1" Text="{ Binding
SelectedTshirt.Color}" TextWrapping="Wrap" Name="txtColor" Style="{ StaticResource
styleTextBox}"/>
        <TextBox Background="Bisque" Grid.Row="6" Grid.Column="1" Name="txtUnitPrice"
Text="{ Binding SelectedTshirt.UnitPrice, Converter={ StaticResource localPriceConverter} }"
Style="{ StaticResource styleTextBox}"/></TextBox>
        <TextBox Background="Bisque" Grid.Row="7" Grid.Column="1" Name="txtInStock"
Text="{ Binding SelectedTshirt.InStock}"/>

```

```

        <StackPanel Grid.Row="10" Orientation="Horizontal" Grid.ColumnSpan="2">
            <Button x:Name="btnSave" Margin="15,15,15,15.2" Content="Save Tshirt"
FontSize="14">
                <i:Interaction.Triggers>
                    <i:EventTrigger EventName="Click">
                        <!-- an action on the view model-->
                        <i:InvokeCommandAction Command="{ Binding SaveCommand}"/>
                    </i:EventTrigger>
                </i:Interaction.Triggers>
            </Button>
            <Button x:Name="btnDelete" Margin="15,15,15,15.2" Content="Delete Tshirt"
FontSize="14">
                <i:Interaction.Triggers>
                    <i:EventTrigger EventName="Click">
                        <i:InvokeCommandAction Command="{ Binding DeleteTshirt}"/>
                    </i:EventTrigger>
                </i:Interaction.Triggers>
            </Button>
        </StackPanel>

    </Grid>

</ScrollViewer>
</Window>

```

```

<Window x:Class="TshirtStockMgtApp.App.View.TshirtOverviewView"
xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
xmlns:d="http://schemas.microsoft.com/expression/blend/2008"
xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
xmlns:local="clr-namespace:TshirtStockMgtApp.App.View"
mc:Ignorable="d"
    DataContext="{ Binding Source={ StaticResource mainViewModelLocator },
Path=TshirtOverviewViewModelInstance}"
    Title="TshirtOverviewView" Height="650" Width="750">
    <Grid>
        <Grid.ColumnDefinitions>

```

```

        <ColumnDefinition Width="380"></ColumnDefinition>
        <ColumnDefinition Width="*"></ColumnDefinition>
    </Grid.ColumnDefinitions>
    <ListView Grid.Column="0" Margin="5" ItemsSource="{ Binding Tshirt }"
SelectedItem="{ Binding SelectedTshirt }"
        Name="lstTshirt" FontSize="16" Background="Beige">
        <ListView.ItemTemplate>
            <DataTemplate>
                <Border BorderBrush="DarkOrange" BorderThickness="1">
                    <Grid>
                        <Grid.ColumnDefinitions>
                            <ColumnDefinition Width="100"/>
                            <ColumnDefinition Width="*" />
                            <ColumnDefinition Width="90"/>
                        </Grid.ColumnDefinitions>
                        <Grid.RowDefinitions>
                            <RowDefinition Height="30"/>
                            <RowDefinition Height="30"/>
                            <RowDefinition Height="15"/>
                        </Grid.RowDefinitions>
                        <Image Source="{ Binding Image,Converter={ StaticResource
localImageConverter } }" Grid.RowSpan="2" VerticalAlignment="Center"/>
                        <Label Content="{ Binding ShortDescription }" Grid.ColumnSpan="2"
Grid.Column="1" FontSize="14" FontWeight="Bold"/>
                        <StackPanel Grid.Row="1" Orientation="Horizontal" Grid.Column="1">
                            <Label Content="Units on Hand:"/>
                            <Label Content="{ Binding OnHand,Converter={ StaticResource
localDoNothingConverter } }"/>
                        </StackPanel>
                        <Label Content="{ Binding UnitPrice,Converter={ StaticResource
localPriceConverter } }" HorizontalAlignment="Right" Grid.Row="1" Grid.Column="2"/>
                    </Grid>
                </Border>
            </DataTemplate>
        </ListView.ItemTemplate>
    </ListView>
    <Grid Grid.Column="1" Margin="5" Name="gridSelectedItem" Background="Bisque">
        <Grid.RowDefinitions>
            <RowDefinition Height="250"></RowDefinition>
            <RowDefinition Height="30"></RowDefinition>
            <RowDefinition Height="30"></RowDefinition>
            <RowDefinition Height="30"></RowDefinition>
            <RowDefinition Height="30"></RowDefinition>
            <RowDefinition Height="30"></RowDefinition>
        </Grid.RowDefinitions>
    </Grid>

```

```

        <RowDefinition Height="50"></RowDefinition>
        <RowDefinition Height="30"></RowDefinition>
    </Grid.RowDefinitions>
    <Grid.ColumnDefinitions>
        <ColumnDefinition Width="150"></ColumnDefinition>
        <ColumnDefinition Width="*"></ColumnDefinition>
    </Grid.ColumnDefinitions>
    <Image Name="imgProduct" Grid.Row="0" Source="{Binding SelectedTshirt.Image,
Converter={StaticResource localImageConverter}}"
        Grid.ColumnSpan="2" MaxHeight="250" MaxWidth="150"></Image>
    <Label Grid.Row="1" Content="Id" Style="{StaticResource styleLabel}"/>
    <Label Grid.Row="2" Content="Name" Style="{StaticResource styleLabel}"/>
    <Label Grid.Row="3" Content="Description" Style="{StaticResource styleLabel}"/>
    <Label Grid.Row="4" Content="Unit Price" Style="{StaticResource styleLabel}"/>
    <Label Grid.Row="5" Content="On Hand" Style="{StaticResource styleLabel}"/>

    <Label Grid.Row="1" Grid.Column="1" Name="lblID" Content="{Binding
SelectedTshirt.TshirtID, Mode=OneWay}"></Label>
    <Label Grid.Row="2" Grid.Column="1" Name="lblName" Content="{Binding
SelectedTshirt.ShortDescription}"></Label>
    <Label Grid.Row="3" Grid.Column="1" Name="lblDescription" Content="{Binding
SelectedTshirt.LongDescription}"></Label>
    <Label Grid.Row="4" Grid.Column="1" Name="lblPrice" Content="{Binding
SelectedTshirt.UnitPrice, Converter={StaticResource localPriceConverter}}"></Label>
    <Label Grid.Row="5" Grid.Column="1" Name="lblOnHand" Content="{Binding
SelectedTshirt.InStock}"></Label>

    <StackPanel Grid.Row="7" VerticalAlignment="Center" >
        <Button Name="btnEdit" Content="Edit Product" Command="{Binding
EditCommand}" FontSize="14"/>
    </StackPanel>
</Grid>
</Grid>
</Window>

```