



Universidad
La Salle[®]
Bajío

Facultad de
**Ingenierías y
Tecnologías**

Integrantes:

José de Jesús Muñetón Pérez

Materia:

Taller de Desarrollo Movil Para Windows

Tema:

Examen Tercer Parcial

Grupo:

401

Maestro:

Luis Enrique Cuellar Vivia

León, Guanajuato a 01 de diciembre de 2023

MainView.xaml

```
<?xml version="1.0" encoding="utf-8" ?>
<TabbedPage xmlns="http://schemas.microsoft.com/dotnet/2021/maui"
    xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
    x:Class="TDMPW_3P_EX_76724.MVVM.Views.MainView"
    SelectedTabColor="white"
    UnselectedTabColor="#6c757d"
    BarBackgroundColor="#212529"
    >

    <ContentPage
        Title="Home Page"
        IconImageSource="home.png">
        <StackLayout>
        <StackLayout.Background>
            <LinearGradientBrush StartPoint="0,0" EndPoint="1,1">
                <GradientStop Color="#CC3E50" Offset="0.0"/>
                <GradientStop Color="#34CC5E" Offset="0.5"/>
                <GradientStop Color="#2C3ECC" Offset="1.0"/>
            </LinearGradientBrush>
        </StackLayout.Background>
        <Frame
            BackgroundColor="DarkBlue"
            BorderColor="DarkBlue"
            HasShadow="True">
            <StackLayout>
                <Label
                    Text="Bienvenido a schooler"
                    FontSize="40"
                    FontFamily="Lemon"
                    TextColor="White"
                    HorizontalOptions="CenterAndExpand"
                    VerticalOptions="CenterAndExpand"
                    Margin="30,20,30,20"
                />
                <Label
                    Text="El software de registro de calificaciones"
                    FontSize="25"
                    FontFamily="Roboto"
                    TextColor="White"
                    HorizontalOptions="CenterAndExpand"
                    VerticalOptions="CenterAndExpand"
                    Margin="30,20,30,20"
                />
            </StackLayout>
        </Frame>
    </ContentPage>
</TabbedPage>
```

```

        </StackLayout>
    </Frame>

    <Image
        Source="logo.png"
        WidthRequest="200"
        HeightRequest="200"
        VerticalOptions="CenterAndExpand"
        HorizontalOptions="CenterAndExpand"
    />
</StackLayout>

```

```

</ContentPage>

```

```

<ContentPage
    Title="Materias"
    IconImageSource="education.png">
    <Grid>
        <Grid.ColumnDefinitions>
            <ColumnDefinition Width="*" />
            <ColumnDefinition Width="*" />

        </Grid.ColumnDefinitions>
        <Grid.RowDefinitions>
            <RowDefinition Height="3*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />
            <RowDefinition Height="*" />

        </Grid.RowDefinitions>

        <Frame
            Grid.Column="0"
            Grid.ColumnSpan="2"
            Grid.Row="0"
            BackgroundColor="DarkBlue"
            BorderColor="DarkBlue"
            HasShadow="True">
            <StackLayout>

```

```

<Label
    Text="Materias"
    FontSize="40"
    FontFamily="Lemon"
    TextColor="White"
    HorizontalOptions="CenterAndExpand"
    VerticalOptions="CenterAndExpand"
    Margin="0,20,0,20"
/>
</StackLayout>
</Frame>

<Entry
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="1"
    FontSize="25"
    HeightRequest="50"
    Margin="15,0,15,0"
    Placeholder="Ingresa nombre"
    Text="{ Binding Subject.Name }"
/>
<Label
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="2"
    FontSize="25"
    FontFamily="Roboto"
    Text="Ingresa los rubros y sus porcentajes"
    HorizontalOptions="CenterAndExpand"
    VerticalOptions="CenterAndExpand"
/>
<Entry
    Grid.Column="0"
    Grid.Row="3"
    Text="{ Binding Subject.FirstCategory }"
    FontSize="25"
    HeightRequest="50"
    Margin="15,0,15,0"
    Placeholder="Rubro 1"
/>
<Entry
    Grid.Column="1"
    Grid.Row="3"
    Text="{ Binding Subject.FirstPercentage }"
    FontSize="25"
    HeightRequest="50"

```

```

        Margin="50,0,50,0"
        Placeholder="Porcentaje"
        WidthRequest="175"
        HorizontalTextAlignment="End"
        HorizontalOptions="End"
    />
<Label
    Grid.Column="1"
    Grid.Row="3"
    Text="%"
    FontSize="25"
    HeightRequest="50"
    Margin="15,10,25,0"
    HorizontalOptions="End"
/>
<Label
    Grid.Column="0"
    Grid.Row="4"
    Text="Ingresa la calificación"
    FontSize="20"
    FontFamily="Roboto"
    HeightRequest="50"
    Margin="25,0,25,0"
    HorizontalOptions="StartAndExpand"
    VerticalTextAlignment="Center"
/>
<Entry
    Grid.Column="1"
    Grid.Row="4"
    Text="{ Binding Subject.FirstGrade }"
    FontSize="25"
    HeightRequest="50"
    Margin="0,0,25,0"
    VerticalTextAlignment="Center"
    MinimumWidthRequest="200"
    HorizontalTextAlignment="End"
    HorizontalOptions="End"
/>
<Entry
    Grid.Column="0"
    Grid.Row="5"
    Text="{ Binding Subject.SecondCategory }"
    FontSize="25"
    HeightRequest="50"
    Margin="15,0,15,0"
    Placeholder="Rubro 2"
/>
<Entry

```

```

Grid.Column="1"
Grid.Row="5"
Text="{ Binding Subject.SecondPercentage }"
FontSize="25"
HeightRequest="50"
Margin="50,0,50,0"
Placeholder="Porcentaje"
WidthRequest="175"
HorizontalTextAlignment="End"
HorizontalOptions="End"
/>
<Label
Grid.Column="0"
Grid.Row="6"
Text="Ingresa la calificación"
FontSize="20"
FontFamily="Roboto"
HeightRequest="50"
Margin="25,0,25,0"
HorizontalOptions="StartAndExpand"
VerticalTextAlignment="Center"
/>
<Entry
Grid.Column="1"
Grid.Row="6"
Text="{ Binding Subject.SecondGrade }"
FontSize="25"
HeightRequest="50"
Margin="0,0,25,0"
VerticalTextAlignment="Center"
MinimumWidthRequest="200"
HorizontalTextAlignment="End"
HorizontalOptions="End"
/>
<Label
Grid.Column="1"
Grid.Row="5"
Text="%"
FontSize="25"
HeightRequest="50"
Margin="15,10,25,0"
HorizontalOptions="End"
/>
<Entry
Grid.Column="0"
Grid.Row="7"
Text="{ Binding Subject.ThirdCategory }"
FontSize="25"

```

```

        HeightRequest="50"
        Margin="15,0,15,0"
        Placeholder="Rubro 3"
    />
<Entry
    Grid.Column="1"
    Grid.Row="7"
    Text="{ Binding Subject.ThirdPercentage }"
    FontSize="25"
    HeightRequest="50"
    Margin="50,0,50,0"
    Placeholder="Porcentaje"
    WidthRequest="175"
    HorizontalTextAlignment="End"
    HorizontalOptions="End"
/>
<Label
    Grid.Column="1"
    Grid.Row="7"
    Text="%"
    FontSize="25"
    HeightRequest="50"
    Margin="15,10,25,0"
    HorizontalOptions="End"
/>
<Label
    Grid.Column="0"
    Grid.Row="8"
    Text="Ingresa la calificación"
    FontSize="20"
    FontFamily="Roboto"
    HeightRequest="50"
    Margin="25,0,25,0"
    HorizontalOptions="StartAndExpand"
    VerticalTextAlignment="Center"
/>
<Entry
    Grid.Column="1"
    Grid.Row="8"
    Text="{ Binding Subject.ThirdGrade }"
    FontSize="25"
    HeightRequest="50"
    Margin="0,0,25,0"
    VerticalTextAlignment="Center"
    MinimumWidthRequest="200"
    HorizontalTextAlignment="End"
    HorizontalOptions="End"
/>

```

```

<Button
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="9"
    Text="Calificar"
    FontSize="30"
    HorizontalOptions="CenterAndExpand"
    Margin="10,0,10,0"
    MinimumWidthRequest="350"
    HeightRequest="50"
    Command="{ Binding ClickResult }"
/>
<HorizontalStackLayout
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="10"
    Margin="0,0,0,20">
    <Label
        Text="Tu calificacion final en "
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        Margin="25,0,0,0"
        VerticalTextAlignment="End"
    />
    <Label
        Text="{ Binding Subject.Name }"
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
    <Label
        Text=" es: "
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
    <Label
        Text="{ Binding FinalGrade }"
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
</HorizontalStackLayout>
</Grid>

```


</ContentPage>

<ContentPage

Title="Semetre"

IconImageSource="semester.png">

<Grid>

<Grid.ColumnDefinitions>

<ColumnDefinition Width="**"/>

<ColumnDefinition Width="**"/>

</Grid.ColumnDefinitions>

<Grid.RowDefinitions>

<RowDefinition Height="3**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

<RowDefinition Height="**"/>

</Grid.RowDefinitions>

<Frame

Grid.Column="0"

Grid.ColumnSpan="2"

Grid.Row="0"

BackgroundColor="DarkBlue"

BorderColor="DarkBlue"

HasShadow="True">

<StackLayout>

<Label

Text="Semestre"

FontSize="40"

FontFamily="Lemon"

TextColor="White"

HorizontalOptions="CenterAndExpand"

VerticalOptions="CenterAndExpand"

Margin="0,20,0,20"

/>

</StackLayout>

</Frame>

<Entry

Grid.Column="0"

Grid.ColumnSpan="2"

```

        Grid.Row="1"
        FontSize="25"
        HeightRequest="50"
        Margin="15,0,15,0"
        Placeholder="Ingresa nombre"
        Text="{ Binding Semester.SubjectName }"
    />
<Label
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="2"
    FontSize="25"
    FontFamily="Roboto"
    Text="Ingresa los rubros y sus porcentajes"
    HorizontalOptions="CenterAndExpand"
    VerticalOptions="CenterAndExpand"
/>
<Label
    Grid.Column="0"
    Grid.Row="3"
    Text="Primer parcial:"
    FontSize="25"
    HeightRequest="50"
    Margin="15,0,15,2"
    VerticalOptions="EndAndExpand"
/>
<Entry
    Grid.Column="1"
    Grid.Row="3"
    Text="{ Binding Semester.FirstPartialPercentage }"
    FontSize="25"
    HeightRequest="50"
    Margin="50,0,50,0"
    WidthRequest="175"
    HorizontalTextAlignment="End"
    HorizontalOptions="End"
    Placeholder="Porcentaje"
/>
<Label
    Grid.Column="1"
    Grid.Row="3"
    Text="%"
    FontSize="25"
    HeightRequest="50"
    Margin="15,10,25,0"
    HorizontalOptions="End"
/>
<Label

```

```

Grid.Column="0"
Grid.Row="4"
Text="Ingresa la calificación"
FontSize="20"
FontFamily="Roboto"
HeightRequest="50"
Margin="25,0,25,0"
HorizontalOptions="StartAndExpand"
VerticalTextAlignment="Center"
/>
<Entry
  Grid.Column="1"
  Grid.Row="4"
  Text="{ Binding Semester.FirstPartialGrade }"
  FontSize="25"
  HeightRequest="50"
  Margin="25,0,25,0"
  MaximumWidthRequest="200"
  HorizontalTextAlignment="End"
  HorizontalOptions="End"
  Placeholder="Calificacion 1er Parcial"
/>
<Label
  Grid.Column="0"
  Grid.Row="5"
  Text="Segundo Parcial: "
  FontSize="25"
  HeightRequest="50"
  Margin="15,0,15,0"
/>
<Entry
  Grid.Column="1"
  Grid.Row="5"
  Text="{ Binding Semester.SecondPartialPercentage }"
  FontSize="25"
  HeightRequest="50"
  Margin="50,0,50,0"
  WidthRequest="175"
  HorizontalTextAlignment="End"
  HorizontalOptions="End"
  Placeholder="Porcentaje"
/>
<Label
  Grid.Column="1"
  Grid.Row="5"
  Text="%"
  FontSize="25"
  HeightRequest="50"

```

```

        Margin="15,10,25,0"
        HorizontalOptions="End"
    />
<Label
    Grid.Column="0"
    Grid.Row="6"
    Text="Ingresa la calificación"
    FontSize="20"
    FontFamily="Roboto"
    HeightRequest="50"
    Margin="25,0,25,0"
    HorizontalOptions="StartAndExpand"
    VerticalTextAlignment="Center"
/>
<Entry
    Grid.Column="1"
    Grid.Row="6"
    Text="{ Binding Semester.SecondPartialGrade }"
    FontSize="25"
    HeightRequest="50"
    Margin="50,0,25,0"
    MaximumWidthRequest="200"
    HorizontalTextAlignment="End"
    HorizontalOptions="End"
    Placeholder="Calificacion 2do Parcial"
/>
<Label
    Grid.Column="0"
    Grid.Row="7"
    Text="Tercer Parcial: "
    FontSize="25"
    HeightRequest="50"
    Margin="15,0,15,0"
/>
<Entry
    Grid.Column="1"
    Grid.Row="7"
    Text="{ Binding Semester.ThirdPartialGrade }"
    FontSize="25"
    HeightRequest="50"
    Margin="50,0,50,0"
    WidthRequest="175"
    HorizontalTextAlignment="End"
    HorizontalOptions="End"
    Placeholder="Porcentaje"
/>
<Label
    Grid.Column="1"

```

```

        Grid.Row="7"
        Text="%"
        FontSize="25"
        HeightRequest="50"
        Margin="15,10,25,0"
        HorizontalOptions="End"
    />
<Button
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="8"
    Text="Calificar"
    FontSize="30"
    HorizontalOptions="CenterAndExpand"
    Margin="10,0,10,0"
    MinimumWidthRequest="350"
    HeightRequest="50"
    Command="{ Binding ClickSemesterResult }"
/>
<HorizontalStackLayout
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="9"
    Margin="0,0,0,20">
    <Label
        Text="Para 6 final en "
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        Margin="25,0,0,0"
        VerticalTextAlignment="End"
    />
    <Label
        Text="{ Binding Semester.SubjectName }"
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
    <Label
        Text=" necesitas: "
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
    <Label
        Text="{ Binding FinalGradeForSix }"

```

```

        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
</HorizontalStackLayout>
<HorizontalStackLayout
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="10"
    Margin="0,0,0,20">
    <Label
        Text="Para 10 final en "
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        Margin="25,0,0,0"
        VerticalTextAlignment="End"
    />
    <Label
        Text="{ Binding Semester.SubjectName }"
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
    <Label
        Text=" necesitas: "
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
    <Label
        Text="{ Binding FinalGradeForTen }"
        FontSize="25"
        FontFamily="Roboto"
        HeightRequest="50"
        VerticalTextAlignment="End"
    />
</HorizontalStackLayout>
<Label
    Grid.Column="0"
    Grid.ColumnSpan="2"
    Grid.Row="11"
    Text="{ Binding Announcement }"
    FontSize="25"
    FontFamily="Roboto"

```

```
        HeightRequest="50"
        VerticalTextAlignment="Center"
        Margin="25,0,25,15"
        VerticalOptions="EndAndExpand"
    />
</Grid>
</ContentPage>

</TabbedPage>
```

MainView.xaml.cs

```
namespace TDMPW_3P_EX_76724.MVVM.Views;  
using TDMPW_3P_EX_76724.MVVM.ViewModels;
```

```
public partial class MainView : TabbedPage  
{  
    public MainView()  
    {  
        InitializeComponent();  
        BindingContext = new MainViewModel();  
    }  
}
```


MainModel.cs

```
using System;
using PropertyChanged;

namespace TDMPW_3P_EX_76724.MVVM.Models
{
    public class MainModel
    {
        public MainModel()
        {
        }
    }

    [AddINotifyPropertyChangedInterface]
    public class Subject
    {
        public string Name { get; set; }
        public string FirstCategory { get; set; }
        public string SecondCategory { get; set; }
        public string ThirdCategory { get; set; }
        public int FirstPercentage { get; set; }
        public int SecondPercentage { get; set; }
        public int ThirdPercentage { get; set; }
        public int FirstGrade { get; set; }
        public int SecondGrade { get; set; }
        public int ThirdGrade { get; set; }

        public Subject()
        {
        }
    }

    [AddINotifyPropertyChangedInterface]
    public class Semester
    {
        public string SubjectName { get; set; }
        public int FirstPartialPercentage { get; set; }
        public int SecondPartialPercentage { get; set; }
        public int ThirdPartialPercentage { get; set; }
        public double FirstPartialGrade { get; set; }
        public double SecondPartialGrade { get; set; }
        public double ThirdPartialGrade { get; set; }

        public Semester()
        {
        }
    }
}
```

}
}
}

MainViewModel.cs

```
using System;
using System.Windows.Input;
using PropertyChanged;
using TDMPW_3P_EX_76724.MVVM.Models;

namespace TDMPW_3P_EX_76724.MVVM.ViewModels
{
    [AddINotifyPropertyChangedInterface]
    public class MainViewModel
    {
        public Subject Subject { get; set; }
        public string NombreMateria { get; set; }
        public double FinalGrade { get; set; }
        public ICommand ClickResult => new Command(() => FinalGrade =
            (Subject.FirstPercentage * Subject.FirstGrade * 0.01) +
            (Subject.SecondPercentage * Subject.SecondGrade * 0.01) +
            (Subject.ThirdPercentage * Subject.ThirdGrade * 0.01)
        );

        public Semester Semester { get; set; }
        public string NameSemesterSubject { get; set; }
        public double FinalGradeForSix { get; set; }
        public double FinalGradeForTen { get; set; }
        public string Announcement { get; set; }
        public ICommand ClickSemesterResult => new Command(() => {
            FinalGradeForSix = (((6 -
                ((Semester.FirstPartialPercentage * Semester.FirstPartialGrade * 0.01) +
                (Semester.SecondPartialPercentage * Semester.SecondPartialGrade * 0.01)))
                * 100) / Semester.ThirdPartialGrade);
            FinalGradeForTen = (((10 -
                ((Semester.FirstPartialPercentage * Semester.FirstPartialGrade * 0.01) +
                (Semester.SecondPartialPercentage * Semester.SecondPartialGrade * 0.01)))
                * 100) / Semester.ThirdPartialGrade);

            if (FinalGradeForSix < 10)
            {
                Announcement = "Se viene remontada. Esto es boca loco!!!";
            }
            else
            {
                Announcement = "No hay nada que podamos hacer";
            }
        });
    }
}
```

```

public MainViewModel()
{
    Subject = new Subject
    {
        Name = "",
        FirstCategory = "",
        SecondCategory = "",
        ThirdCategory = "",
        FirstPercentage = 0,
        SecondPercentage = 0,
        ThirdPercentage = 0,
        FirstGrade = 0,
        SecondGrade = 0,
        ThirdGrade = 0
    };

    Semester = new Semester
    {
        SubjectName = "",
        FirstPartialGrade = 0,
        SecondPartialGrade = 0,
        ThirdPartialGrade = 0,
        FirstPartialPercentage = 0,
        SecondPartialPercentage = 0,
        ThirdPartialPercentage = 0
    };
}
}
}

```

Pantallas



MATERIAS

Programación

Ingresar los rubros y sus porcentajes

Tareas

50 %

Ingresar la calificación

10

Examen

30 %

Ingresar la calificación

9

Prácticas

20 %

Ingresar la calificación

8

Calificar

Tu calificación final en Programación es: 9.3



Home Page



Materias



Semestre

SEMESTRE

Programación II

Ingresar los rubros y sus porcentajes

Primer parcial: %

Ingresar la calificación

Segundo Parcial: %

Ingresar la calificación

Tercer Parcial: %

[Calificar](#)

Para 6 final en Programación II necesitas: 2.2500

Para 10 final en Programación II necesitas: 12.25

Se viene remontada. Esto es boca loco!!!

SEMESTRE

Programación II

Ingresar los rubros y sus porcentajes

Primer parcial: %

Ingresar la calificación

Segundo Parcial: %

Ingresar la calificación

Tercer Parcial: %

[Calificar](#)

Para 6 final en Programación II necesitas: 11.25

Para 10 final en Programación II necesitas: 21.25

No hay nada que podamos hacer