



Name: Yazeed Khalid alsaedi

ID: 4001453

M1

Homework 5



Main page:

```
MainPage.xaml.cs*  AndroidManifest.xml  phone.cs  MainPage.xaml
New to .NET MAUI? Click here to learn more! | Don't show again
HomeWork5-2 (net7.0-ios)  HomeWork5_2.MainPage

1 namespace HomeWork5_2;
2 using Newtonsoft.Json;
3 public partial class MainPage : ContentPage
4 {
5     int count = 0;
6
7     public MainPage()
8     {
9         InitializeComponent();
10    }
11
12    async private void Button_Clicked(object sender, EventArgs e)
13    {
14        var file = await MediaPicker.CapturePhotoAsync();
15        string ran = Convert.ToString(new Random().Next(1, 1000));
16        string ff = "F" + ran + file.FileName;
17
18        string nn = Convert.ToString(ca.SelectedIndex);
19        var content = new MultipartFormDataContent();
20        content.Add(new StreamContent(await file.OpenReadAsync()), "file_pic", ff);
21        content.Add(new StringContent(ti.Text), "title");
22        content.Add(new StringContent(de.Text), "description");
23        content.Add(new StringContent(pr.Text), "price");
24        content.Add(new StringContent(nn), "cata");
25        var httpClient = new HttpClient();
26        var response = await httpClient.PostAsync("http://10.0.2.2:8060/phone", content);
27        StatusLabel.Text = response.Content.ReadAsStringAsync().Result; ;
28
29    private async void Button_Clicked_1(object sender, EventArgs e)
30    {
31        HttpClient httpClient = new HttpClient();
32        var response = await httpClient.GetAsync("http://10.0.2.2:8060/phone");
33        if (response.IsSuccessStatusCode)
34        {
35            var Bks = response.Content.ReadAsStringAsync().Result;
36            var bkks = JsonConvert.DeserializeObject<List<phone>>(Bks);
```

```
MainPage.xaml.cs*  AndroidManifest.xml  phone.cs  MainPage.xaml
New to .NET MAUI? Click here to learn more! | Don't show again
HomeWork5-2 (net7.0-ios)  HomeWork5_2.MainPage

34        var Bks = response.Content.ReadAsStringAsync().Result;
35        var bkks = JsonConvert.DeserializeObject<List<phone>>(Bks);
36        myListView.ItemsSource = bkks;
37    }
38    }
39
40    private async void Button_Clicked_2(object sender, EventArgs e)
41    {
42
43        HttpClient httpClient = new HttpClient();
44        var response = await httpClient.GetAsync("http://10.0.2.2:8060/phone?bname=" + ti.Text);
45        if (response.IsSuccessStatusCode)
46        {
47            var Bk = response.Content.ReadAsStringAsync().Result;
48            var bkk = JsonConvert.DeserializeObject<phone>(Bk);
49            StatusLabel.Text = "price = " + bkk.price;
50        }
51    }
52
53
54
55
56
```

manifest :

```
AndroidManifest.xml*  phone.cs  MainPage.xaml
New to .NET MAUI? Click here to learn more! | Don't show again

1  <?xml version="1.0" encoding="utf-8"?>
2  <manifest xmlns:android="http://schemas.android.com/apk/res/android">
3  <application android:allowBackup="true" android:icon="@mipmap/appicon" android:usesCleartextTraffic="true"
4      android:roundIcon="@mipmap/appicon_round" android:supportRtl="true"></application>
5      <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
6      <uses-permission android:name="android.permission.INTERNET" />
7      <uses-permission android:name="android.permission.CAMERA" />
8      <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />
9      <queries>
10     <intent>
11         <action android:name="android.media.action.IMAGE_CAPTURE" />
12     </intent>
13 </queries>
14
15 </manifest>
16
```

class phone :

```
phone.cs  MainPage.xaml
New to .NET MAUI? Click here to learn more! | Don't show again
HomeWork5-2 (net7.0-ios)  HomeWork5_2.pho

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6
7  namespace HomeWork5_2
8  {
9      2 references
9      internal class phone
10     {
11         0 references
12         public int Id { get; set; }
13         0 references
14         public string title { get; set; }
15         0 references
16         public string description { get; set; }
17         1 reference
18         public int price { get; set; }
19         0 references
20         public int cata { get; set; }
21         0 references
22         public string image { get; set; }
23     }
24 }
25
```

Mainpage.xaml:

```
1 <?xml version="1.0" encoding="utf-8" ?>
2 <ContentPage xmlns="http://schemas.microsoft.com/dotnet/2021/maui"
3   xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
4   x:Class="HomeWork5_2.MainPage">
5   <StackLayout Padding="20" Margin="20">
6     <Frame BackgroundColor="#1c4c64" Padding="30" CornerRadius="0">
7       <Label Text="Sell your Phone" HorizontalTextAlignment="Center" TextColor="White" FontSize="36"/>
8     </Frame>
9     <Entry x:Name="ti" Placeholder="Title" Keyboard="Text" />
10    <Entry x:Name="de" Placeholder="Description" Keyboard="Text" />
11    <Entry x:Name="pr" Placeholder="Price" Keyboard="Numeric" />
12    <Picker x:Name="ca"
13      Title="Please select Catagory" >
14      <Picker.ItemsSource>
15        <x:Array Type="{x:Type x:String}">
16          <x:String>None</x:String>
17          <x:String>phone 1</x:String>
18          <x:String>phone 2</x:String>
19        </x:Array>
20      </Picker.ItemsSource>
21    </Picker>
22    <Label x:Name="StatusLabel" Text="" FontSize="Title" Padding="30,10,30,10"/>
23    <Button Text="Upload Phone Pic" Clicked="Button_Clicked" BackgroundColor="#1c4c64" TextColor="White"/>
24    <Button Text="show" Clicked="Button_Clicked_1" BackgroundColor="#1c4c64" TextColor="White" />
25    <Button Text="search phone by name" Clicked="Button_Clicked_2" BackgroundColor="#1c4c64" TextColor="White" />
26    <ListView HasUnevenRows="true" x:Name="myListView" SelectionMode="Single" >
27      <ListView.ItemTemplate>
28        <DataTemplate>
29          <ViewCell>
30            <StackLayout VerticalOptions="CenterAndExpand">
31              <Image Source="{Binding image}"
32                HeightRequest="60" WidthRequest="60" />
33              <Label Text="{Binding title}" />
34              <Label Text="{Binding price}" />
35            </StackLayout>
36          </ViewCell>
37        </DataTemplate>
38      </ListView.ItemTemplate>
39    </ListView>
40  </StackLayout>
41 </ContentPage>
```

Database-phone:

dbo.phone [Design] phone.cs* Program.cs BookController.cs*				
Update Script File: dbo.phone.sql				
	Name	Data Type	Allow Nulls	Default
1	Id	int	<input type="checkbox"/>	
2	title	varchar(50)	<input checked="" type="checkbox"/>	
3	description	varchar(50)	<input checked="" type="checkbox"/>	
4	price	int	<input checked="" type="checkbox"/>	
5	cata	int	<input checked="" type="checkbox"/>	
6	image	varchar(MAX)	<input checked="" type="checkbox"/>	
7			<input type="checkbox"/>	

Design		T-SQL
1	CREATE TABLE [dbo].[phone] (
2	[Id]	INT IDENTITY (1, 1) NOT NULL,
3	[title]	VARCHAR (50) NULL,
4	[description]	VARCHAR (50) NULL,
5	[price]	INT NULL,
6	[cata]	INT NULL,
7	[image]	VARCHAR (MAX) NULL,
8	PRIMARY KEY CLUSTERED ([Id] ASC)	
9);	
10		
11		

Class phone :

```
dbo.phone [Design] | phone.cs* | Program.cs | BookController.cs*
WebApplication1
{
    1 namespace WebApplication1
    2 {
    3     4 references
    4     public class phone
    5     {
    6         0 references
    7         public int Id { get; set; }
    8         1 reference
    9         public string title { get; set; }
    10        0 references
    11        public string description { get; set; }
    12        1 reference
    13        public int price { get; set; }
    14        0 references
    15        public int cata { get; set; }
    16        1 reference
    17        public string image { get; set; }
    18    }
    19 }
```

Program.cs:

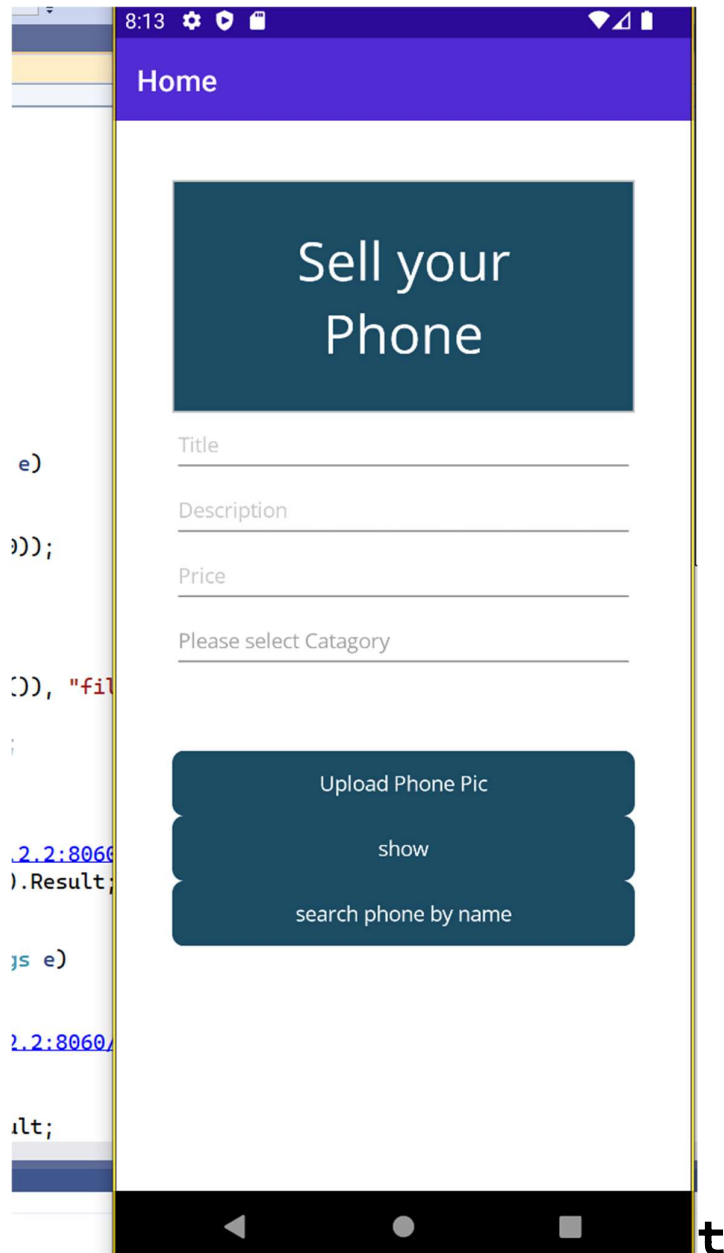
```
dbo.phone [Design]  phone.cs*  Program.cs*  BookController.cs*
WebApplication1
{
1  var builder = WebApplication.CreateBuilder(args);
2
3  }
4  builder.Services.AddControllers();
5  builder.Services.AddEndpointsApiExplorer();
6  builder.Services.AddSwaggerGen();
7  builder.Services.AddCors(o =>
8  {
9      o.AddPolicy("_myAllowSpecificOrigins", p => p.AllowAnyOrigin().AllowAnyMethod().AllowAnyHeader()
10     );
11 });
12 var app = builder.Build();
13
14 // Configure the HTTP request pipeline.
15 if (app.Environment.IsDevelopment())
16 {
17     app.UseSwagger();
18     app.UseSwaggerUI();
19 }
20 app.UseHttpsRedirection();
21 app.UseAuthorization();
22 app.MapControllers();
23 app.UseCors("_myAllowSpecificOrigins");
24 app.UseHttpsRedirection();
25 app.UseStaticFiles();
26 app.Run();
27
28 }
```


BookController:

```
dbo.phone [Design] | phone.cs* | Program.cs* | BookController.cs* x
WebApplication1 | WebApplication1.Controllers.BookController | Get()

1 using Microsoft.AspNetCore.Http;
2 using Microsoft.AspNetCore.Mvc;
3 using System.Data.SqlClient;
4
5 namespace WebApplication1.Controllers
6 {
7     [Route("[controller]")]
8     [ApiController]
9     public class BookController : ControllerBase
10     {
11         [HttpPost]
12         public IActionResult Post(IFormFile file_pic, [FromForm] string title, [FromForm] string description, [FromForm] int price, [FromForm] int cata)
13         {
14             var ti = title;
15             var de = description;
16             var pr = price;
17             var ca = cata;
18             var im = "";
19             if (file_pic != null)
20             {
21                 string filename = file_pic.FileName;
22                 string path = Path.GetFullPath(Path.Combine(Directory.GetCurrentDirectory(), "wwwroot\\images"));
23                 using (var filestream = new FileStream(Path.Combine(path, filename), FileMode.Create))
24                 { file_pic.CopyToAsync(filestream); }
25                 im = "http://127.0.0.1:8060/images/" + filename;
26             }
27             SqlConnection conn1 = new SqlConnection("Data Source=DESKTOP-I2LJ5EV;Encrypt=False;TrustServerCertificate=True;ApplicationIntent=ReadWrite;MultiSubnetFailover=False");
28             string sql;
29             sql = "insert into book (title,description, price, cata, image) values ('" + ti + "','" + de + "','" + pr + "','" + ca + "','" + im + "')";
30             SqlCommand comm = new SqlCommand(sql, conn1);
31             return Ok("phone Successfully add");
32         }
33         [HttpGet]
34         public IEnumerable<phone> Get()
35         {
36             List<phone> li = new List<phone>();
37             SqlConnection conn1 = new SqlConnection("Data Source=DESKTOP-I2LJ5EV;Encrypt=False;TrustServerCertificate=True;ApplicationIntent=ReadWrite;MultiSubnetFailover=False");
38             string sql;
39             sql = "SELECT * FROM book ";
40             SqlCommand comm = new SqlCommand(sql, conn1);
41             conn1.Open();
42             SqlDataReader reader = comm.ExecuteReader();
43             while (reader.Read())
44             {
45                 li.Add(new phone
46                 {
47                     title = (string)reader["title"],
48                     image = (string)reader["image"],
49                     price = (int)reader["price"],
50                 });
51             }
52             reader.Close();
53             conn1.Close();
54             return li;
55         }
56     }
57 }
```

Output :



The screenshot shows a mobile application interface with a purple header bar labeled "Home". Below the header, there is a dark blue rectangular box with the text "Sell your Phone" in white. Underneath this box, there are four input fields with labels: "Title", "Description", "Price", and "Please select Catagory". Below the input fields, there are three dark blue buttons with white text: "Upload Phone Pic", "show", and "search phone by name". The interface is displayed on a smartphone screen with a status bar at the top showing the time 8:13 and various icons. The background of the slide features abstract green and grey geometric shapes.

8:13

Home

Sell your
Phone

Title

Description

Price

Please select Catagory

Upload Phone Pic

show

search phone by name

WebApplication1 1.0 OAS3

<https://localhost:7040/swagger/v1/swagger.json>

Book

POST /Book

Parameters

Cancel

Reset

No parameters

Request body

multipart/form-data

file_pic

string(\$binary)

اختيار ملف

phone13.jpg

☐ Send empty value

title

string

iphone 13 pro

☐ Send empty value

description

string

1 Tb

☐ Send empty value

price

integer(\$int32)

3500

☐ Send empty value

cata

integer(\$int32)

1

☐ Send empty value

Execute

☐ Send empty value

cata

integer(\$int32)

1

☐ Send empty value

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'https://localhost:7040/Book' \
  -H 'accept: */*' \
  -H 'Content-Type: multipart/form-data' \
  -F 'file_pic=@phone13.jpg;type=image/jpeg' \
  -F 'title=iphone 13 pro' \
  -F 'description=1 Tb' \
  -F 'price=3500' \
  -F 'cata=1'
```

Request URL

https://localhost:7040/Book

Server response

Code Details

200

Response body

phone Sucessfully add



Download

Response headers

```
access-control-allow-origin: *
content-type: text/plain; charset=utf-8
date: Wed, 26 Apr 2023 17:19:53 GMT
server: Kestrel
```

Responses

Code

Description

Links

200

Success

No links