HomeWork 5

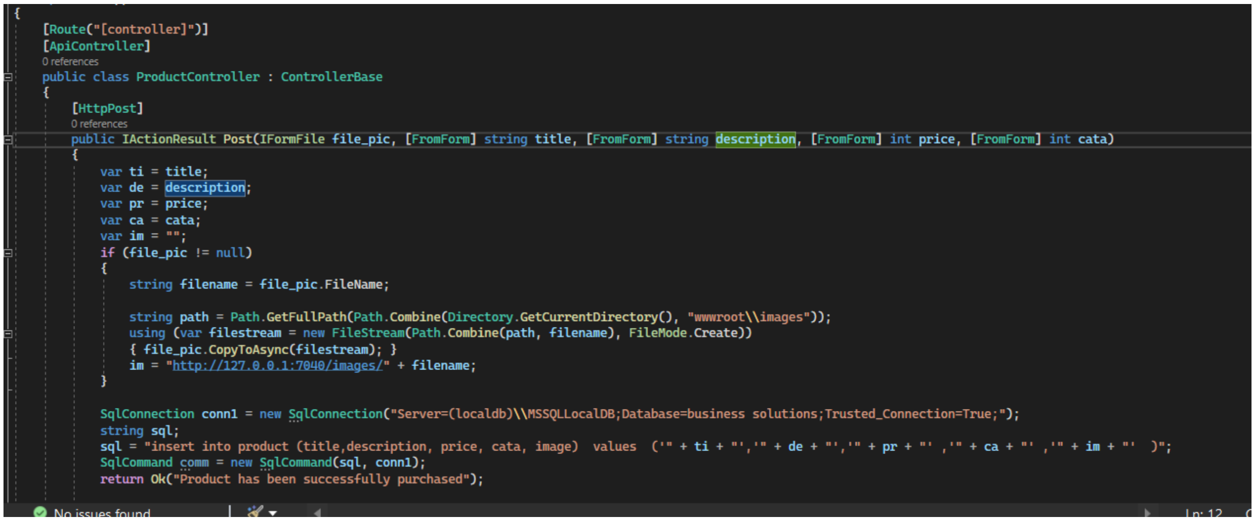
Name: Badr Ali Bakhashwain

ID Number:4000321

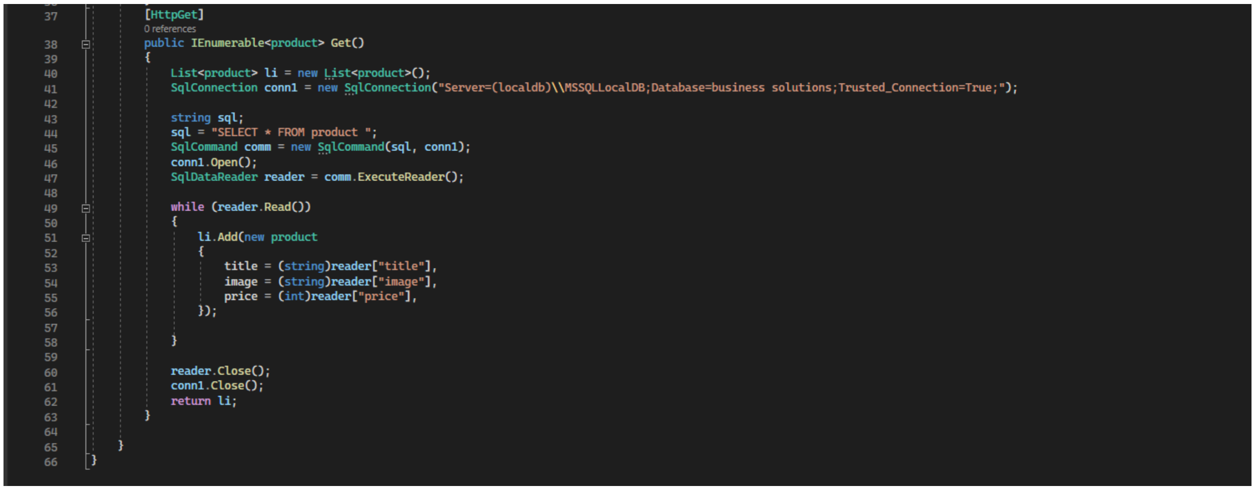
Section:M1

Dr: Ayman Turani

ProductController

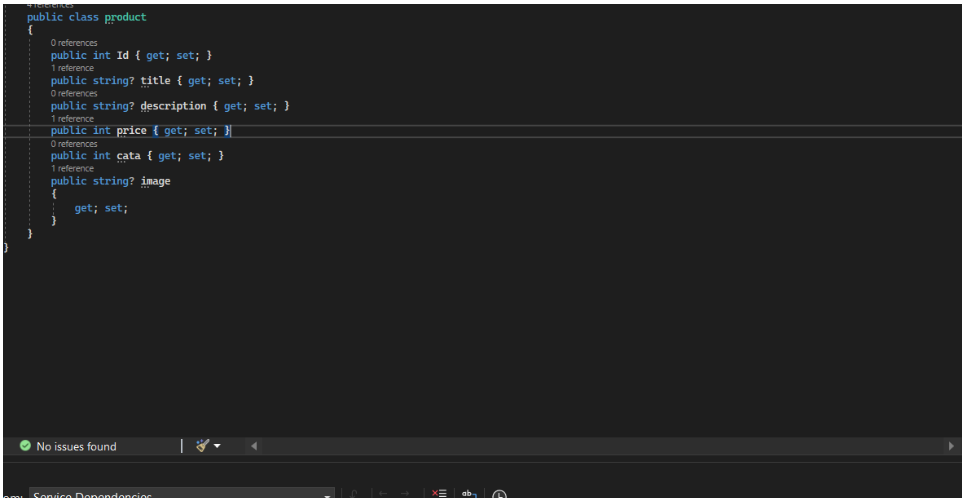


```
{
    [Route("[controller]")]
    [ApiController]
    0 references
    public class ProductController : ControllerBase
    {
        [HttpPost]
        0 references
        public IActionResult Post(IFormFile file_pic, [FromForm] string title, [FromForm] string description, [FromForm] int price, [FromForm] int cata)
        {
            var ti = title;
            var de = description;
            var pr = price;
            var ca = cata;
            var im = "";
            if (file_pic != null)
            {
                string filename = file_pic.FileName;

                string path = Path.GetFullPath(Path.Combine(Directory.GetCurrentDirectory(), "wwwroot\\images"));
                using (var filestream = new FileStream(Path.Combine(path, filename), FileMode.Create))
                { file_pic.CopyToAsync(filestream); }
                im = "http://127.0.0.1:7040/images/" + filename;
            }

            SqlConnection conn1 = new SqlConnection("Server=(localdb)\\MSSQLLocalDB;Database=business solutions;Trusted_Connection=True;");
            string sql;
            sql = "insert into product (title,description, price, cata, image)  values  ('" + ti + "','" + de + "','" + pr + "' ,'" + ca + "' ,'" + im + "'  )";
            SqlCommand comm = new SqlCommand(sql, conn1);
            return Ok("Product has been successfully purchased");
```



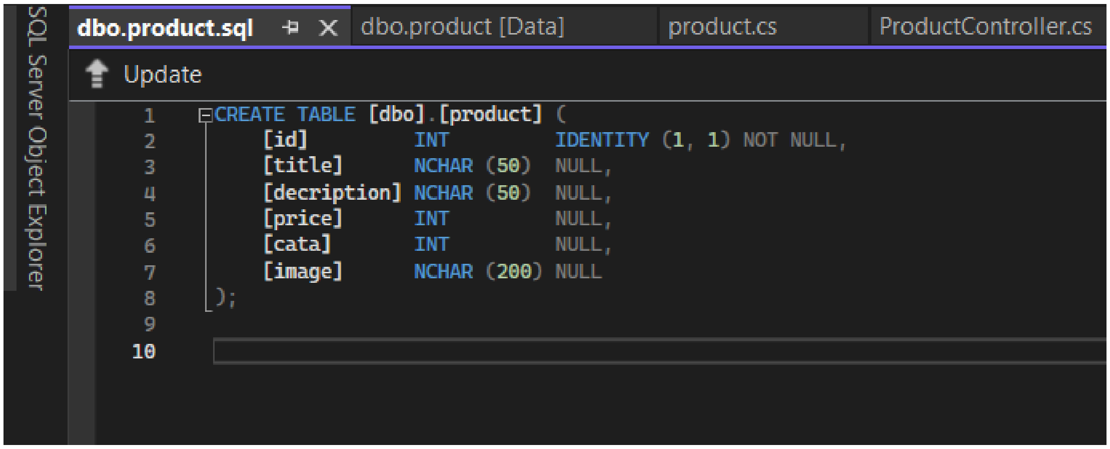
```
            [HttpGet]
            0 references
            public IEnumerable<product> Get()
            {
                List<product> li = new List<product>();
                SqlConnection conn1 = new SqlConnection("Server=(localdb)\\MSSQLLocalDB;Database=business solutions;Trusted_Connection=True;");

                string sql;
                sql = "SELECT * FROM product ";
                SqlCommand comm = new SqlCommand(sql, conn1);
                conn1.Open();
                SqlDataReader reader = comm.ExecuteReader();

                while (reader.Read())
                {
                    li.Add(new product
                    {
                        title = (string)reader["title"],
                        image = (string)reader["image"],
                        price = (int)reader["price"],
                    });

                }

                reader.Close();
                conn1.Close();
                return li;
            }

        }
    }
```

Prodcut.cs

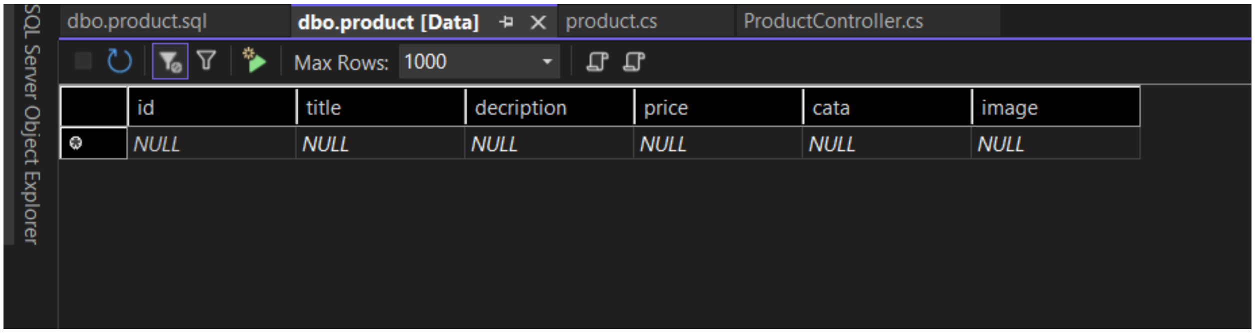


```
public class product
{
    0 references
    public int Id { get; set; }
    1 reference
    public string? title { get; set; }
    0 references
    public string? description { get; set; }
    1 reference
    public int price { get; set; }
    0 references
    public int cata { get; set; }
    1 reference
    public string? image
    {
        get; set;
    }
}
}
```

Table Product



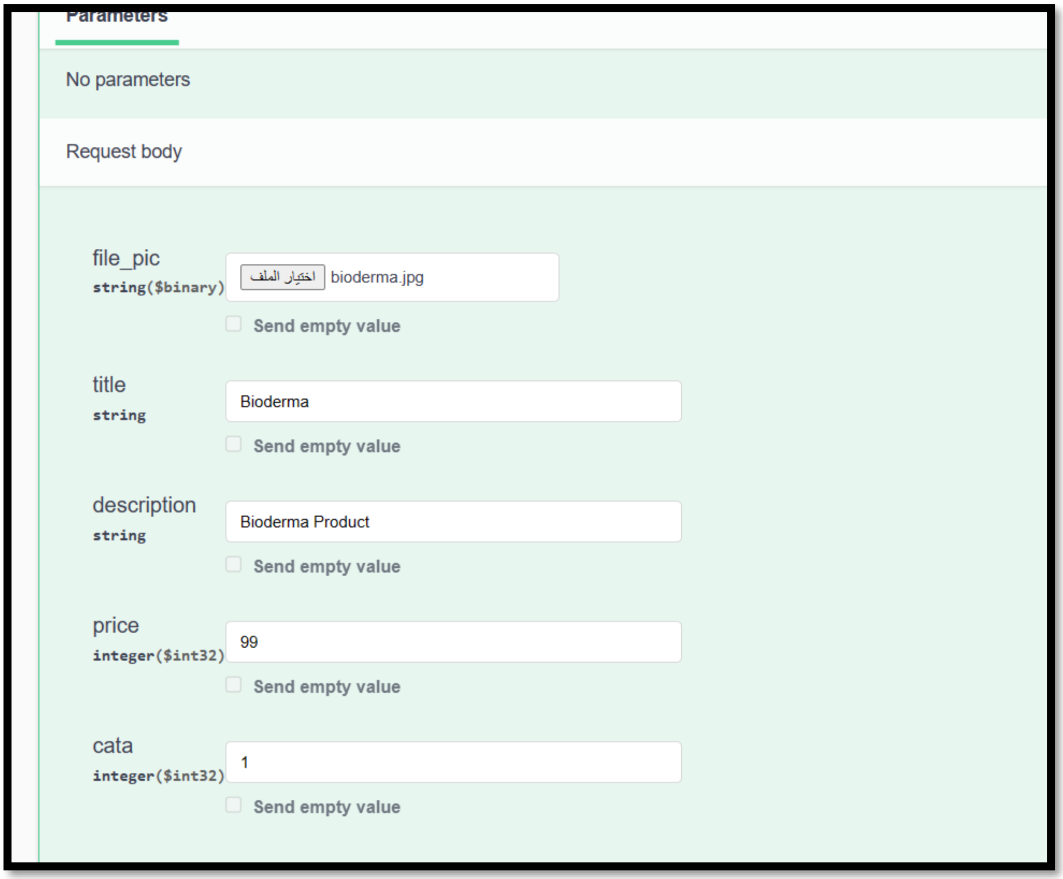
```
CREATE TABLE [dbo].[product] (
    [id]         INT          IDENTITY (1, 1) NOT NULL,
    [title]      NCHAR (50)   NULL,
    [decription] NCHAR (50)   NULL,
    [price]      INT          NULL,
    [cata]       INT          NULL,
    [image]      NCHAR (200)  NULL
);
```



Max Rows: 1000

	id	title	decription	price	cata	image
⊛	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*	*NULL*

OutPut Swagger



Parameters

No parameters

Request body

file_pic
string($binary)

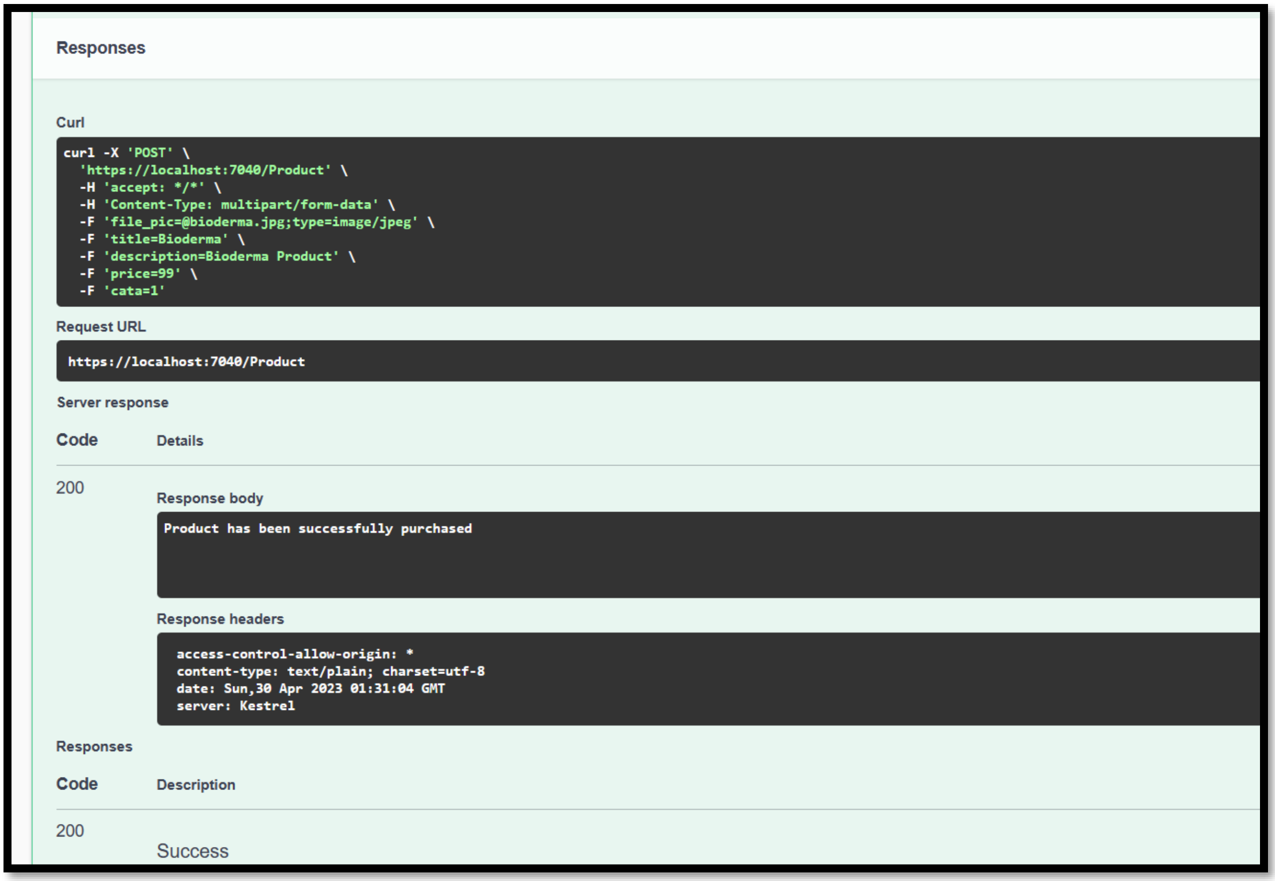
bioderma.jpg
□ Send empty value

title
string
Bioderma
□ Send empty value

description
string
Bioderma Product
□ Send empty value

price
integer($int32)
99
□ Send empty value

cata
integer($int32)
1
□ Send empty value



Responses

Curl

```
curl -X 'POST' \
  'https://localhost:7040/Product' \
  -H 'accept: */*' \
  -H 'Content-Type: multipart/form-data' \
  -F 'file_pic=@bioderma.jpg;type=image/jpeg' \
  -F 'title=Bioderma' \
  -F 'description=Bioderma Product' \
  -F 'price=99' \
  -F 'cata=1'
```

Request URL

```
https://localhost:7040/Product
```

Server response

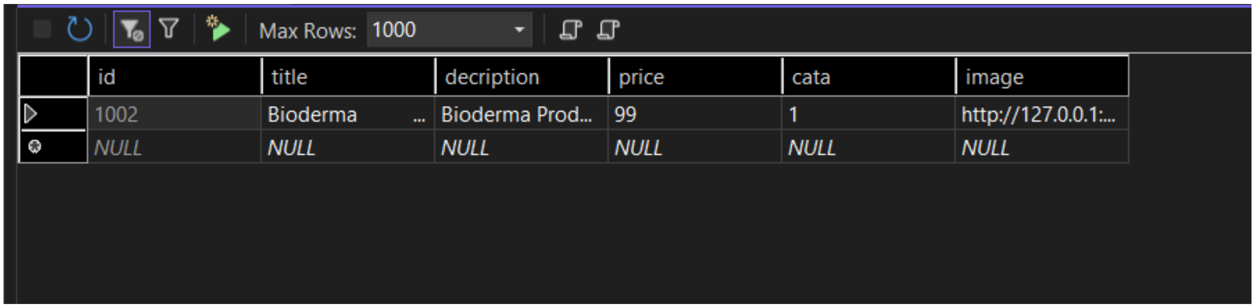
Code	Details
200	Response body `Product has been successfully purchased` Response headers

```
access-control-allow-origin: *
content-type: text/plain; charset=utf-8
date: Sun,30 Apr 2023 01:31:04 GMT
server: Kestrel
```

Responses

Code	Description
200	Success

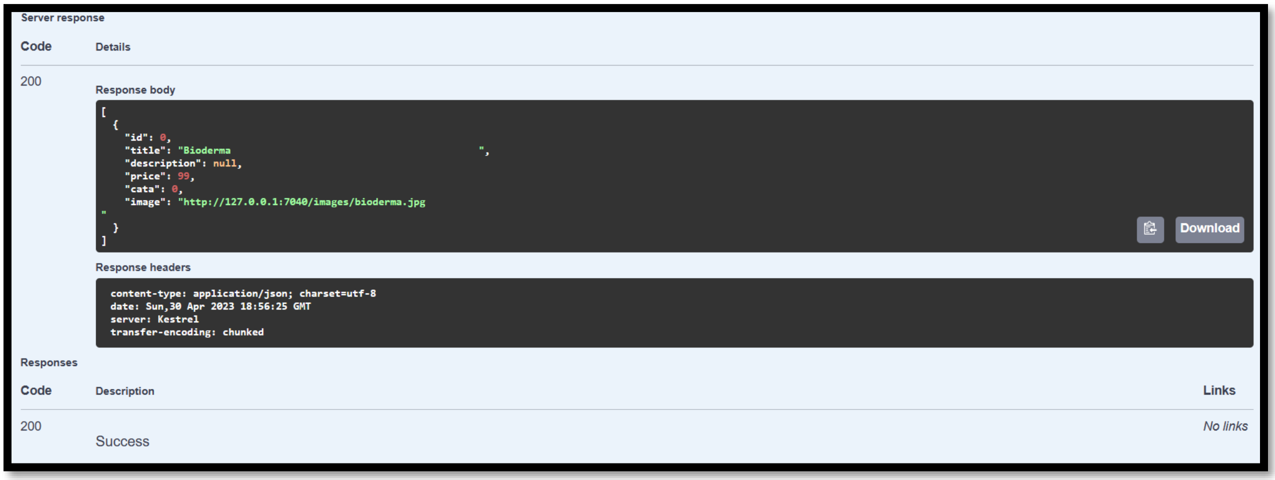
Insert into database



Max Rows: 1000

	id	title	decription	price	cata	image
▷	1002	Bioderma ...	Bioderma Prod...	99	1	http://127.0.0.1:...
⊛	NULL	NULL	NULL	NULL	NULL	NULL

Get product



Server response

Code Details

200

Response body

```
[
  {
    "id": 0,
    "title": "Bioderma                                          ",
    "description": null,
    "price": 99,
    "cata": 0,
    "image": "http://127.0.0.1:7040/images/bioderma.jpg
"
  }
]
```

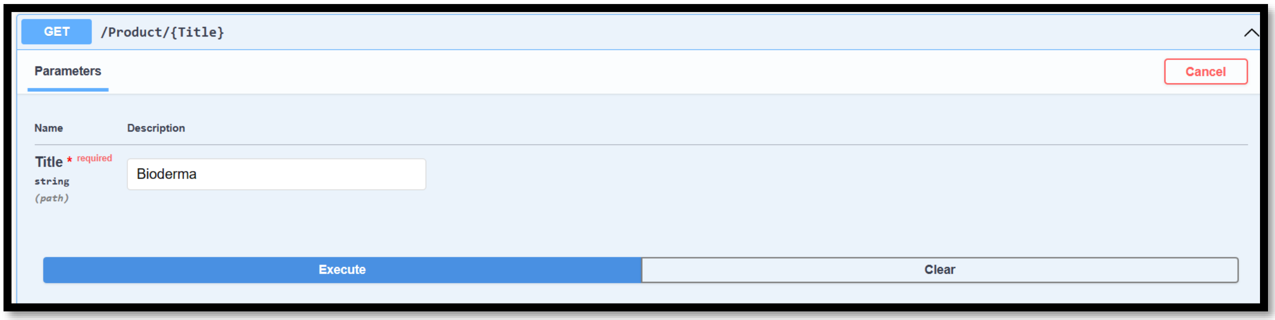
Response headers

```
 content-type: application/json; charset=utf-8
 date: Sun,30 Apr 2023 18:56:25 GMT
 server: Kestrel
 transfer-encoding: chunked
```

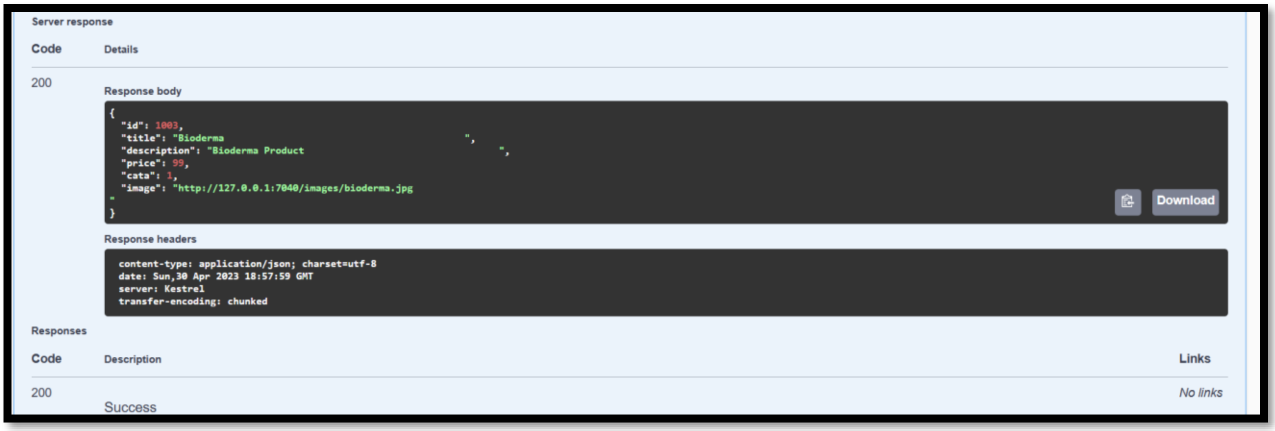
Responses

Code	Description	Links
200	Success	*No links*

Get product with title



Name	Description
Title * required string *(path)*	Bioderma



Server response

Code Details

200

Response body

```
{
  "id": 1003,
  "title": "Bioderma                                          ",
  "description": "Bioderma Product                                          ",
  "price": 99,
  "cata": 1,
  "image": "http://127.0.0.1:7040/images/bioderma.jpg
"
}
```

Response headers

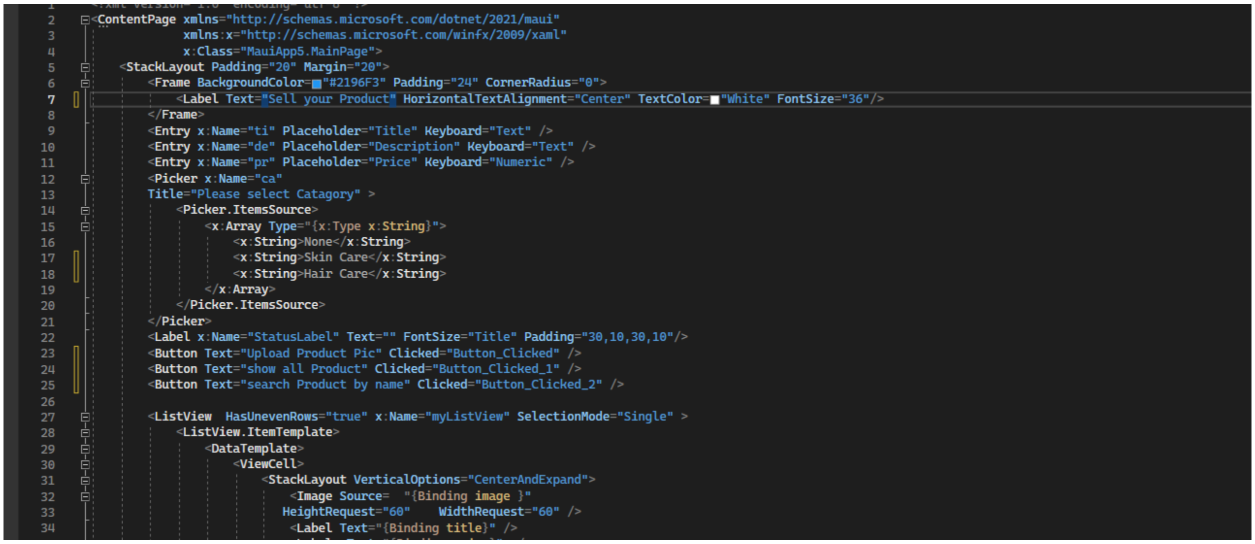
```
 content-type: application/json; charset=utf-8
 date: Sun,30 Apr 2023 18:57:59 GMT
 server: Kestrel
 transfer-encoding: chunked
```

Responses

Code	Description	Links
200	Success	*No links*

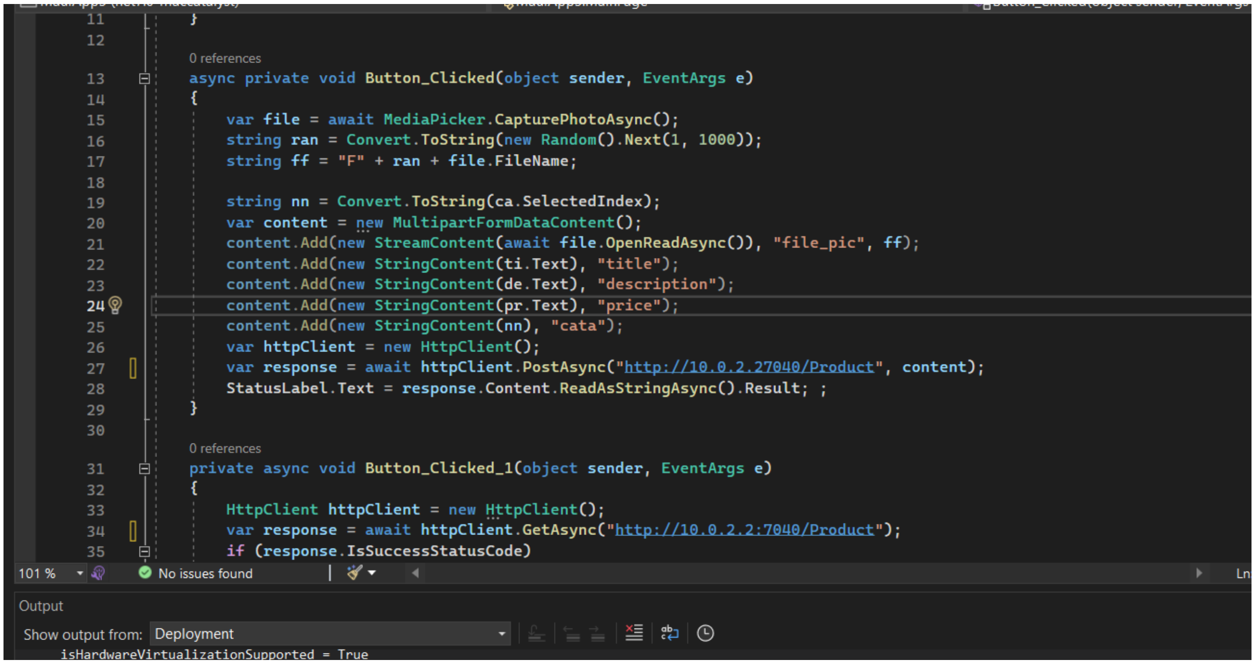
MauiApp

MainPage.xaml



```xml
<?xml version="1.0" encoding="utf-8" ?>
<ContentPage xmlns="http://schemas.microsoft.com/dotnet/2021/maui"
             xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
             x:Class="MauiApp5.MainPage">
    <StackLayout Padding="20" Margin="20">
        <Frame BackgroundColor="#2196F3" Padding="24" CornerRadius="0">
            <Label Text="Sell your Product" HorizontalTextAlignment="Center" TextColor="White" FontSize="36"/>
        </Frame>
        <Entry x:Name="ti" Placeholder="Title" Keyboard="Text" />
        <Entry x:Name="de" Placeholder="Description" Keyboard="Text" />
        <Entry x:Name="pr" Placeholder="Price" Keyboard="Numeric" />
        <Picker x:Name="ca"
        Title="Please select Catagory" >
            <Picker.ItemsSource>
                <x:Array Type="{x:Type x:String}">
                    <x:String>None</x:String>
                    <x:String>Skin Care</x:String>
                    <x:String>Hair Care</x:String>
                </x:Array>
            </Picker.ItemsSource>
        </Picker>
        <Label x:Name="StatusLabel" Text="" FontSize="Title" Padding="30,10,30,10"/>
        <Button Text="Upload Product Pic" Clicked="Button_Clicked" />
        <Button Text="show all Product" Clicked="Button_Clicked_1" />
        <Button Text="search Product by name" Clicked="Button_Clicked_2" />

        <ListView  HasUnevenRows="true" x:Name="myListView" SelectionMode="Single" >
            <ListView.ItemTemplate>
                <DataTemplate>
                    <ViewCell>
                        <StackLayout VerticalOptions="CenterAndExpand">
                            <Image Source=  "{Binding image }"
                           HeightRequest="60"    WidthRequest="60" />
                            <Label Text="{Binding title}" />
```

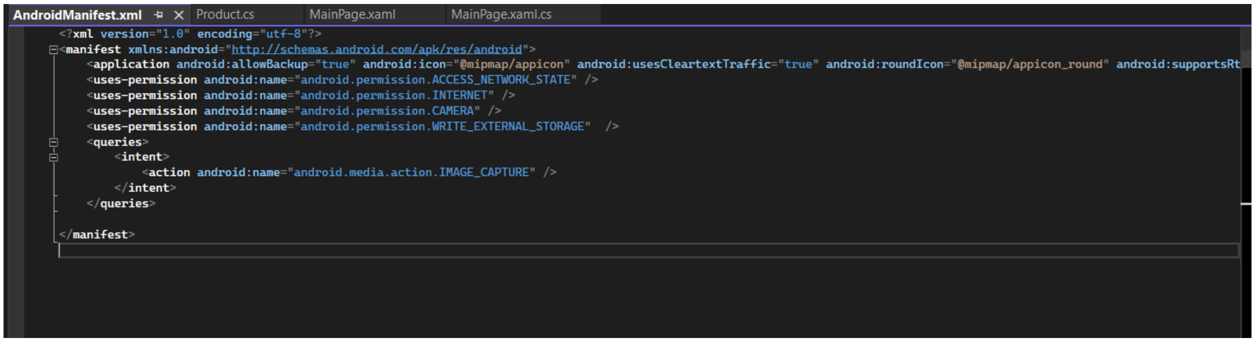
MainPage.xaml.cs



```csharp
    }

    0 references
    async private void Button_Clicked(object sender, EventArgs e)
    {
        var file = await MediaPicker.CapturePhotoAsync();
        string ran = Convert.ToString(new Random().Next(1, 1000));
        string ff = "F" + ran + file.FileName;

        string nn = Convert.ToString(ca.SelectedIndex);
        var content = new MultipartFormDataContent();
        content.Add(new StreamContent(await file.OpenReadAsync()), "file_pic", ff);
        content.Add(new StringContent(ti.Text), "title");
        content.Add(new StringContent(de.Text), "description");
        content.Add(new StringContent(pr.Text), "price");
        content.Add(new StringContent(nn), "cata");
        var httpClient = new HttpClient();
        var response = await httpClient.PostAsync("http://10.0.2.2:7040/Product", content);
        StatusLabel.Text = response.Content.ReadAsStringAsync().Result; ;
    }

    0 references
    private async void Button_Clicked_1(object sender, EventArgs e)
    {
        HttpClient httpClient = new HttpClient();
        var response = await httpClient.GetAsync("http://10.0.2.2:7040/Product");
        if (response.IsSuccessStatusCode)
```

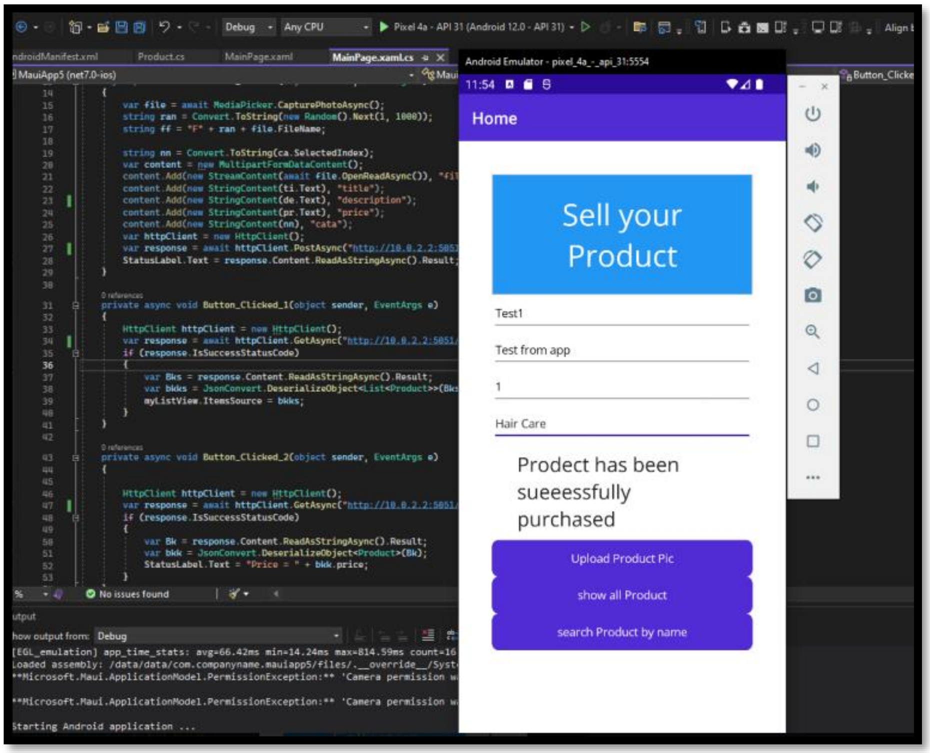
```
isHardwareVirtualizationSupported = True
```

AndroidMainfest.xml



```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android">
    <application android:allowBackup="true" android:icon="@mipmap/appicon" android:usesCleartextTraffic="true" android:roundIcon="@mipmap/appicon_round" android:supportsRt
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.CAMERA" />
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"  />
    <queries>
        <intent>
            <action android:name="android.media.action.IMAGE_CAPTURE" />
        </intent>
    </queries>

</manifest>
```

Output



```
{
    var file = await MediaPicker.CapturePhotoAsync();
    string ran = Convert.ToString(new Random().Next(1, 1000));
    string ff = "F" + ran + file.FileName;

    string nn = Convert.ToString(ca.SelectedIndex);
    var content = new MultipartFormDataContent();
    content.Add(new StreamContent(await file.OpenReadAsync()), "fi
    content.Add(new StringContent(ti.Text), "title");
    content.Add(new StringContent(de.Text), "description");
    content.Add(new StringContent(pr.Text), "price");
    content.Add(new StringContent(nn), "cata");
    var httpClient = new HttpClient();
    var response = await httpClient.PostAsync("http://10.0.2.2:505
    StatusLabel.Text = response.Content.ReadAsStringAsync().Result;
}

0 references
private async void Button_Clicked_1(object sender, EventArgs e)
{
    HttpClient httpClient = new HttpClient();
    var response = await httpClient.GetAsync("http://10.0.2.2:5051/
    if (response.IsSuccessStatusCode)
    {
        var Bks = response.Content.ReadAsStringAsync().Result;
        var bkks = JsonConvert.DeserializeObject<List<Product>>(Bks
        myListView.ItemsSource = bkks;
    }
}

0 references
private async void Button_Clicked_2(object sender, EventArgs e)
{

    HttpClient httpClient = new HttpClient();
    var response = await httpClient.GetAsync("http://10.0.2.2:5051/
    if (response.IsSuccessStatusCode)
    {
        var Bk = response.Content.ReadAsStringAsync().Result;
        var bkk = JsonConvert.DeserializeObject<Product>(Bk);
        StatusLabel.Text = "Price = " + bkk.price;
    }
```

No issues found

Output

Show output from: Debug

```
[EGL_emulation] app_time_stats: avg=66.42ms min=14.24ms max=814.59ms count=16
Loaded assembly: /data/data/com.companyname.mauiapp5/files/.__override__/Syst
**Microsoft.Maui.ApplicationModel.PermissionException:** 'Camera permission w

**Microsoft.Maui.ApplicationModel.PermissionException:** 'Camera permission w

Starting Android application ...
```

Test1

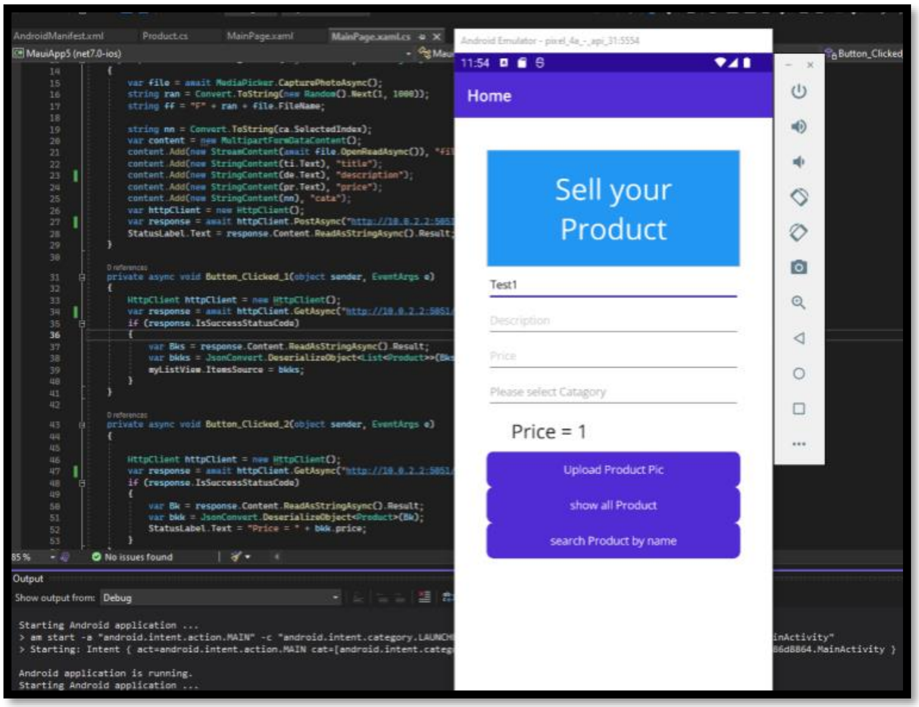
Test from app

1

Hair Care

Prodect has been sueeessfully purchased

Search by product Name



```
{
    var file = await MediaPicker.CapturePhotoAsync();
    string ran = Convert.ToString(new Random().Next(1, 1000));
    string ff = "F" + ran + file.FileName;

    string nn = Convert.ToString(ca.SelectedIndex);
    var content = new MultipartFormDataContent();
    content.Add(new StreamContent(await file.OpenReadAsync()), "fi
    content.Add(new StringContent(ti.Text), "title");
    content.Add(new StringContent(de.Text), "description");
    content.Add(new StringContent(pr.Text), "price");
    content.Add(new StringContent(nn), "cata");
    var httpClient = new HttpClient();
    var response = await httpClient.PostAsync("http://10.0.2.2:505
    StatusLabel.Text = response.Content.ReadAsStringAsync().Result;
}

0 references
private async void Button_Clicked_1(object sender, EventArgs e)
{
    HttpClient httpClient = new HttpClient();
    var response = await httpClient.GetAsync("http://10.0.2.2:5051/
    if (response.IsSuccessStatusCode)
    {
        var Bks = response.Content.ReadAsStringAsync().Result;
        var bkks = JsonConvert.DeserializeObject<List<Product>>(Bks
        myListView.ItemsSource = bkks;
    }
}

0 references
private async void Button_Clicked_2(object sender, EventArgs e)
{

    HttpClient httpClient = new HttpClient();
    var response = await httpClient.GetAsync("http://10.0.2.2:5051/
    if (response.IsSuccessStatusCode)
    {
        var Bk = response.Content.ReadAsStringAsync().Result;
        var bkk = JsonConvert.DeserializeObject<Product>(Bk);
        StatusLabel.Text = "Price = " + bkk.price;
    }
```

85 % No issues found

Output

Show output from: Debug

```
Starting Android application ...
> am start -a "android.intent.action.MAIN" -c "android.intent.category.LAUNCH                inActivity"
> Starting: Intent { act=android.intent.action.MAIN cat=[android.intent.categ                86d8864.MainActivity }

Android application is running.
Starting Android application ...
```

Test1

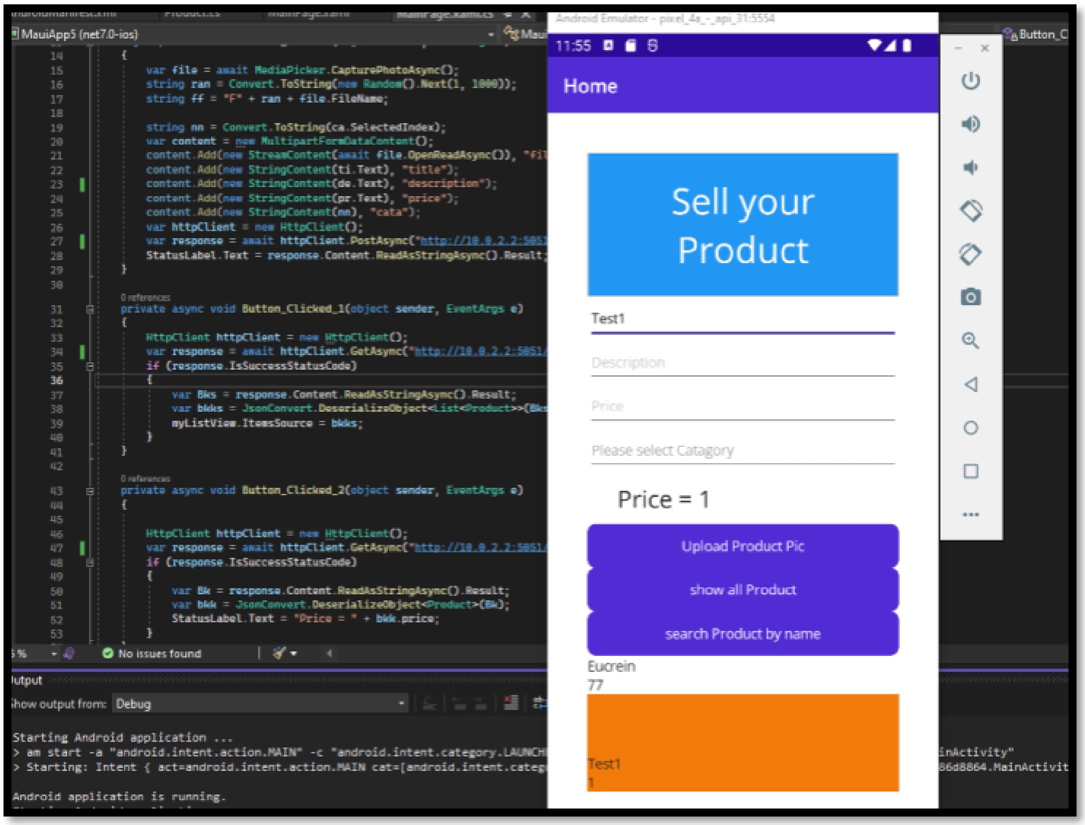
Description

Price

Please select Catagory

Price = 1

Show all product



```
        {
            var file = await MediaPicker.CapturePhotoAsync();
            string ran = Convert.ToString(new Random().Next(1, 1000));
            string ff = "F" + ran + file.FileName;

            string nn = Convert.ToString(ca.SelectedIndex);
            var content = new MultipartFormDataContent();
            content.Add(new StreamContent(await file.OpenReadAsync()), "fil
            content.Add(new StringContent(ti.Text), "title");
            content.Add(new StringContent(de.Text), "description");
            content.Add(new StringContent(pr.Text), "price");
            content.Add(new StringContent(nn), "cata");
            var httpClient = new HttpClient();
            var response = await httpClient.PostAsync("http://10.0.2.2:5051
            StatusLabel.Text = response.Content.ReadAsStringAsync().Result;
        }

        0 references
        private async void Button_Clicked_1(object sender, EventArgs e)
        {
            HttpClient httpClient = new HttpClient();
            var response = await httpClient.GetAsync("http://10.0.2.2:5051/
            if (response.IsSuccessStatusCode)
            {
                var Bks = response.Content.ReadAsStringAsync().Result;
                var bkks = JsonConvert.DeserializeObject<List<Product>>(Bks
                myListView.ItemsSource = bkks;
            }
        }

        0 references
        private async void Button_Clicked_2(object sender, EventArgs e)
        {

            HttpClient httpClient = new HttpClient();
            var response = await httpClient.GetAsync("http://10.0.2.2:5051/
            if (response.IsSuccessStatusCode)
            {
                var Bk = response.Content.ReadAsStringAsync().Result;
                var bkk = JsonConvert.DeserializeObject<Product>(Bk);
                StatusLabel.Text = "Price = " + bkk.price;
            }
```

No issues found

utput

how output from: Debug

```
Starting Android application ...
> am start -a "android.intent.action.MAIN" -c "android.intent.category.LAUNCH        inActivity"
> Starting: Intent { act=android.intent.action.MAIN cat=[android.intent.categ        86d8864.MainActivit

Android application is running.
```

Sell your Product

Test1

Description

Price

Please select Catagory

Price = 1

Eucrein
77

Test1
1