

1 - Introduction :

Our lives have many things and responsibilities to worry about, we are going to tick one of the things off your list and make it easier for you to access one of the most important needs, the accommodations..

Our project is about rental apartments system which is represented by simple graphic user interface with **C#**.

The project provides services to help people choosing the best apartment according to their spending limits. Moreover helping lessors to rent their apartments.

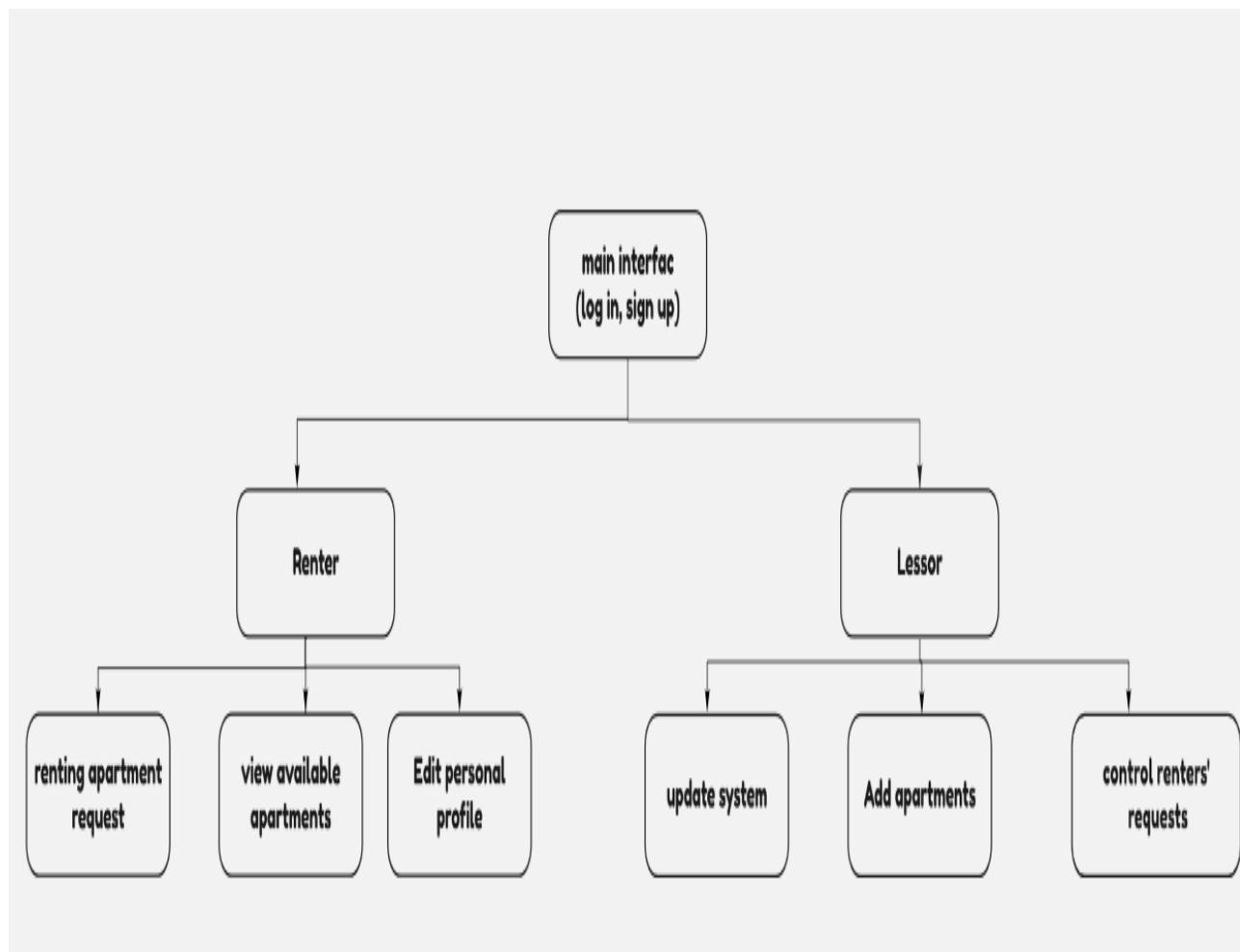
We improved our system by creating some basic classes that guarantee the useability and make good experiences for the users such as lessors and renters.

We created some classes to manage the system:

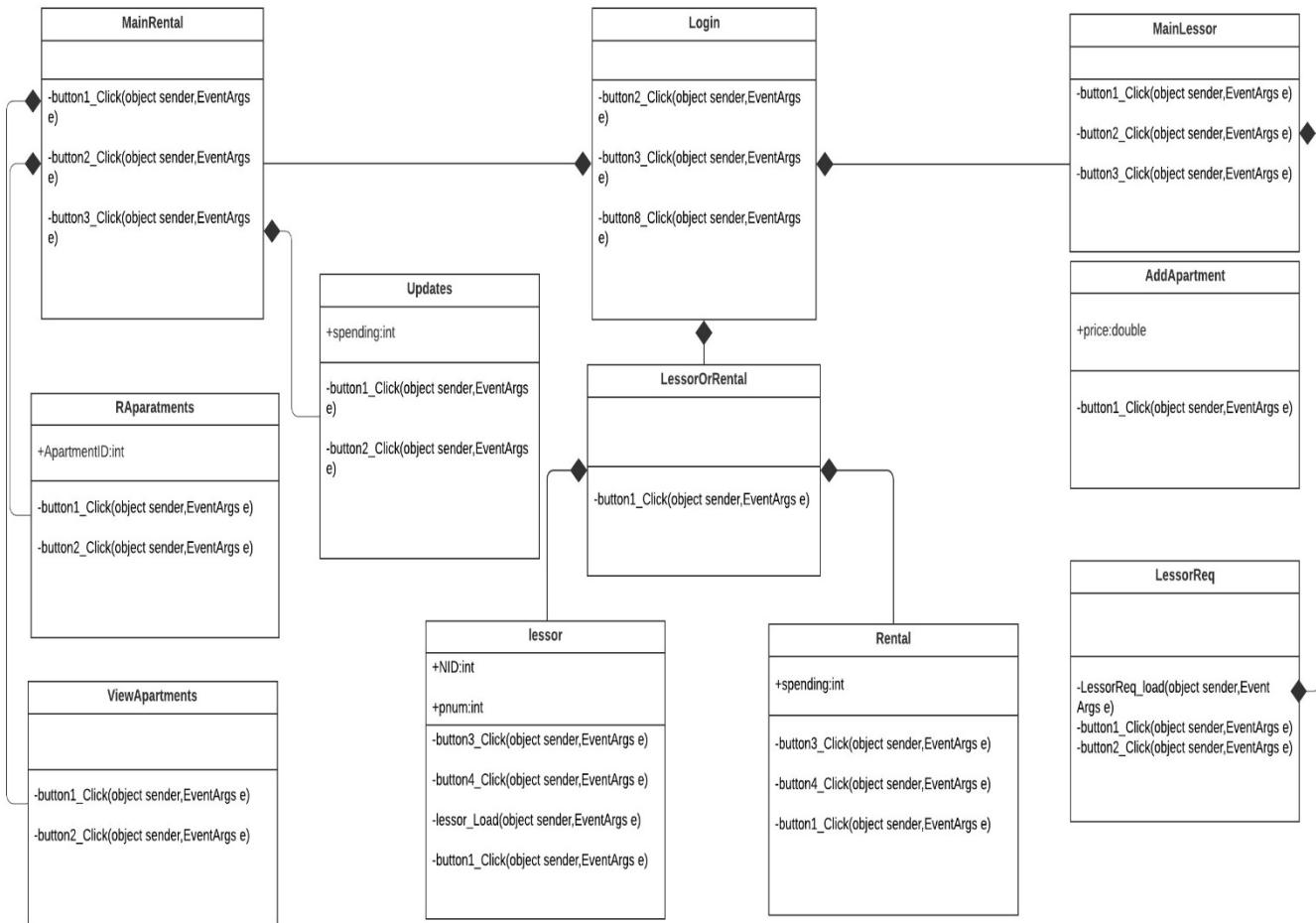
1- class Renter to manage renters' services such as display list of available apartments, editing their personal profile, And request to rent an apartment.

2- class Lessor to manage lessor's services such as control the system to make sure everything works good, Adding new apartments, And last but not the least accept or refuse renters' requests.

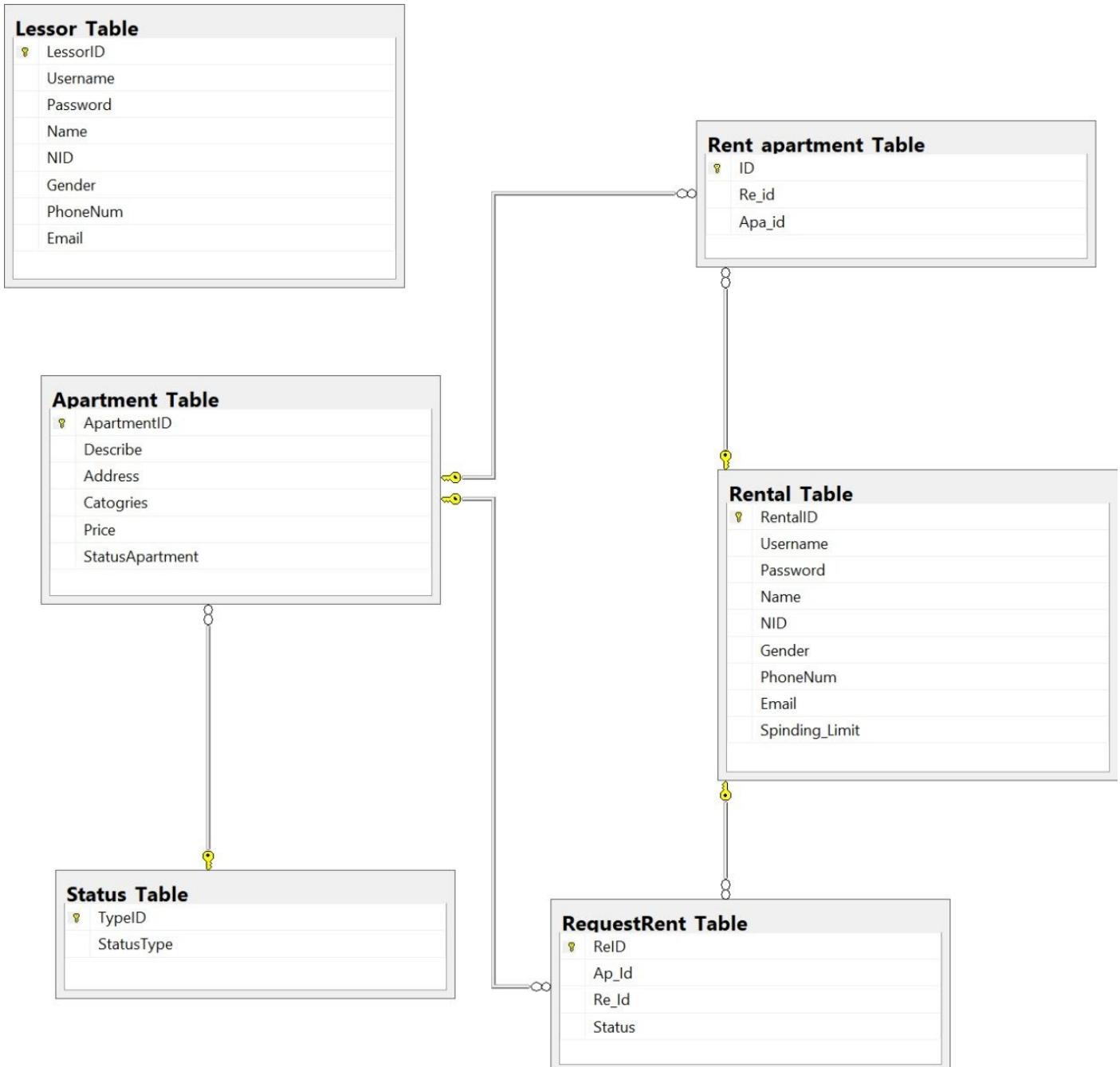
2 - System hierarchy:



3 - UML Class Diagram:

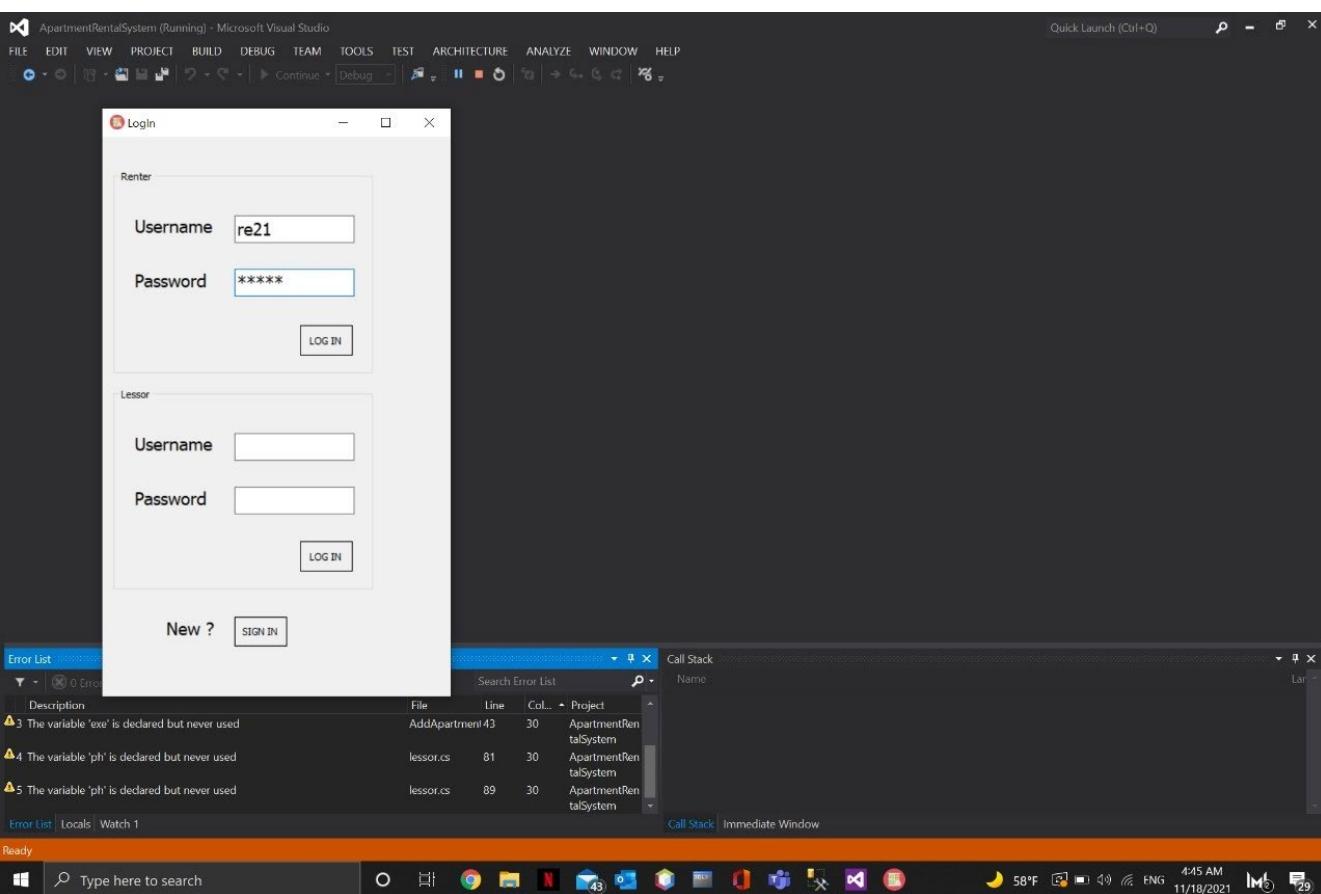
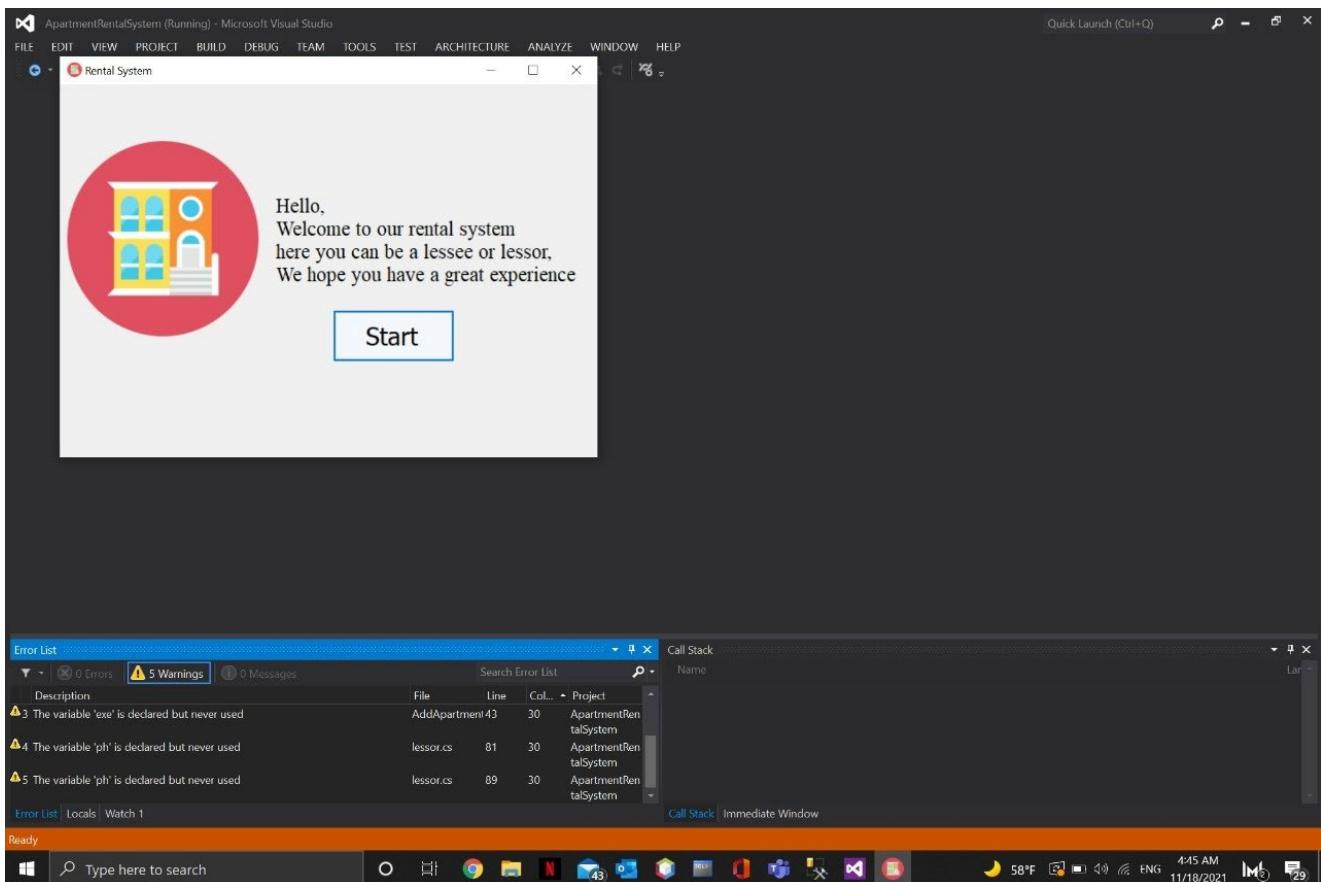


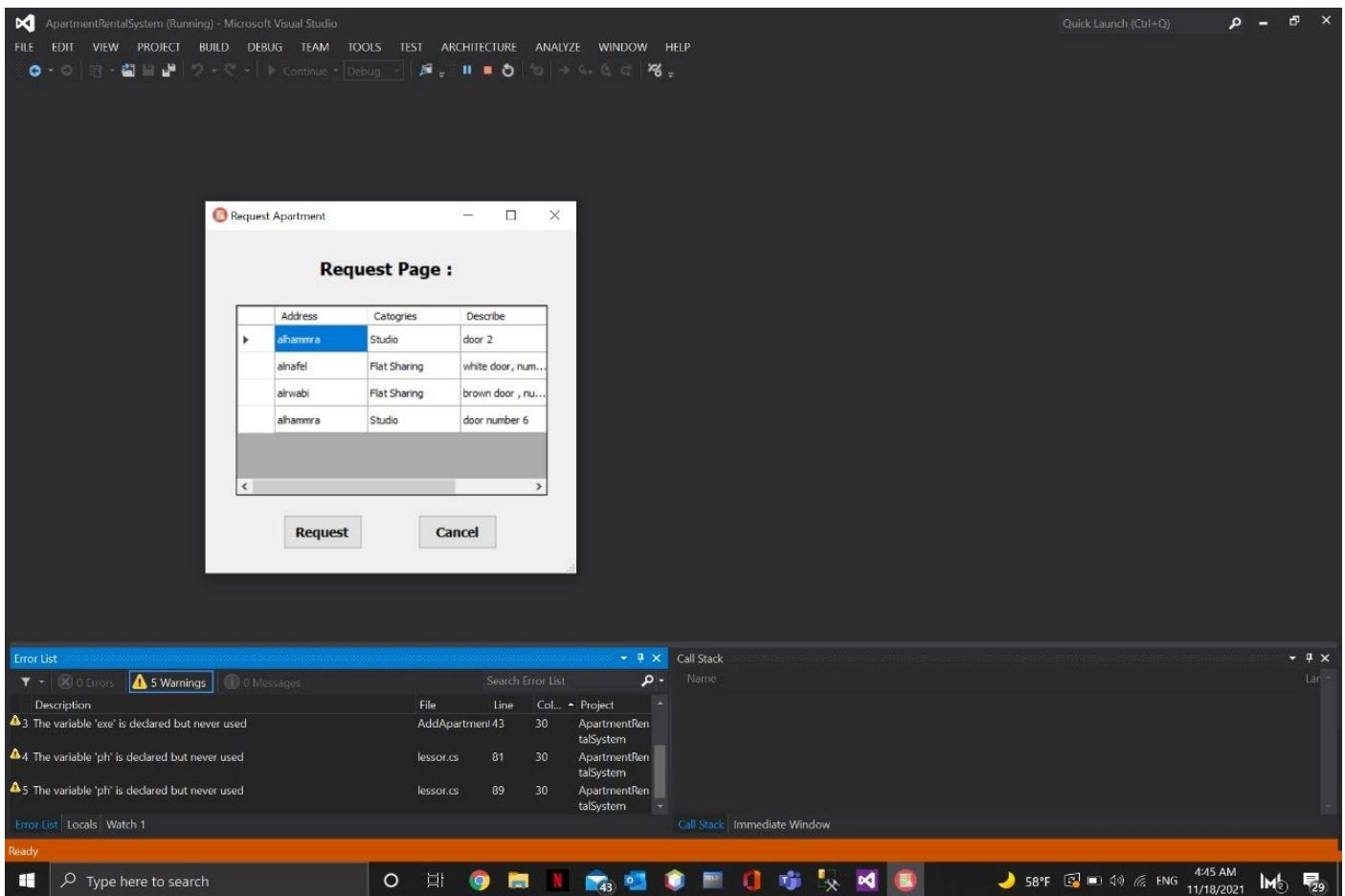
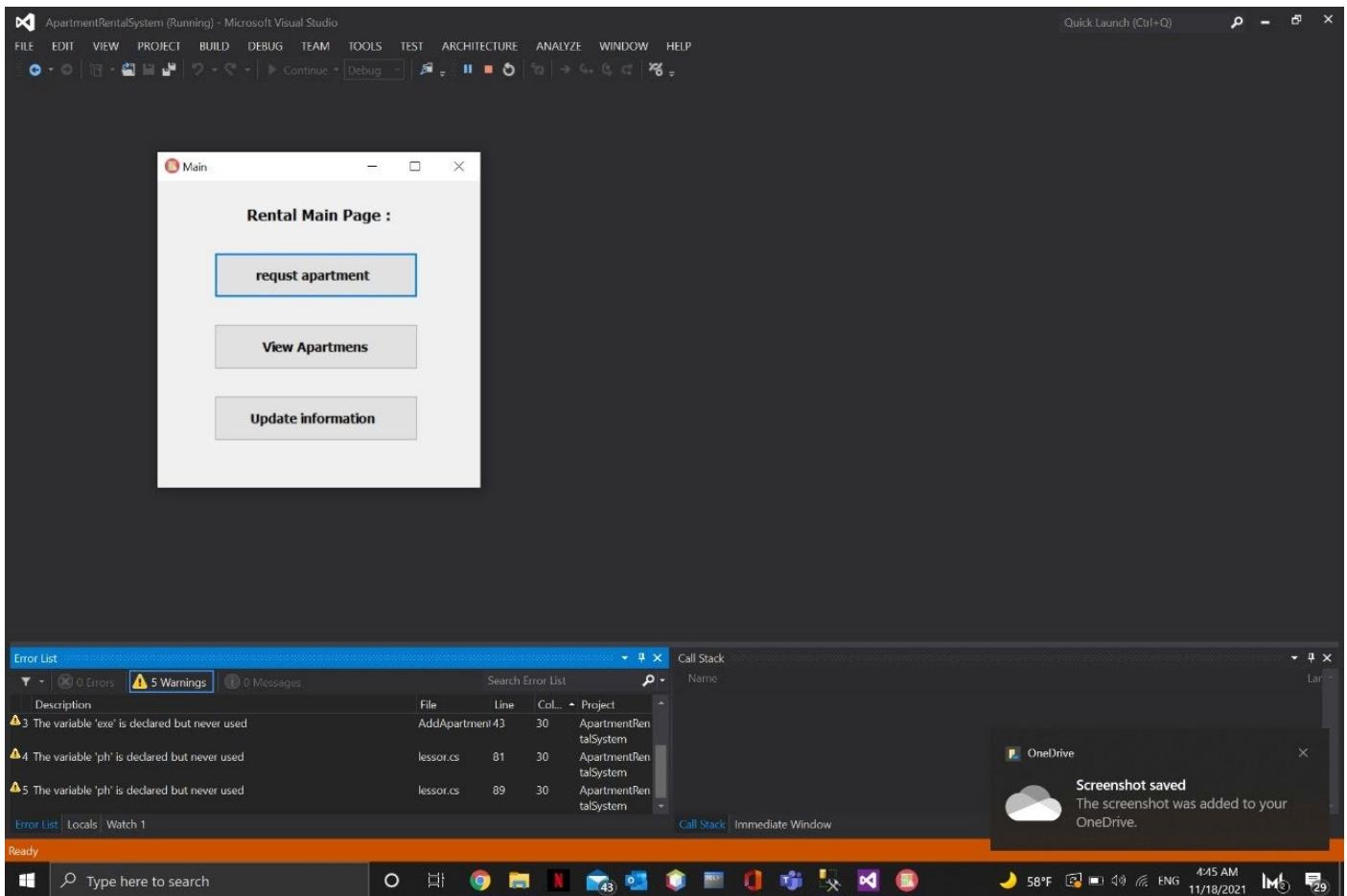
4 - Database Schema:

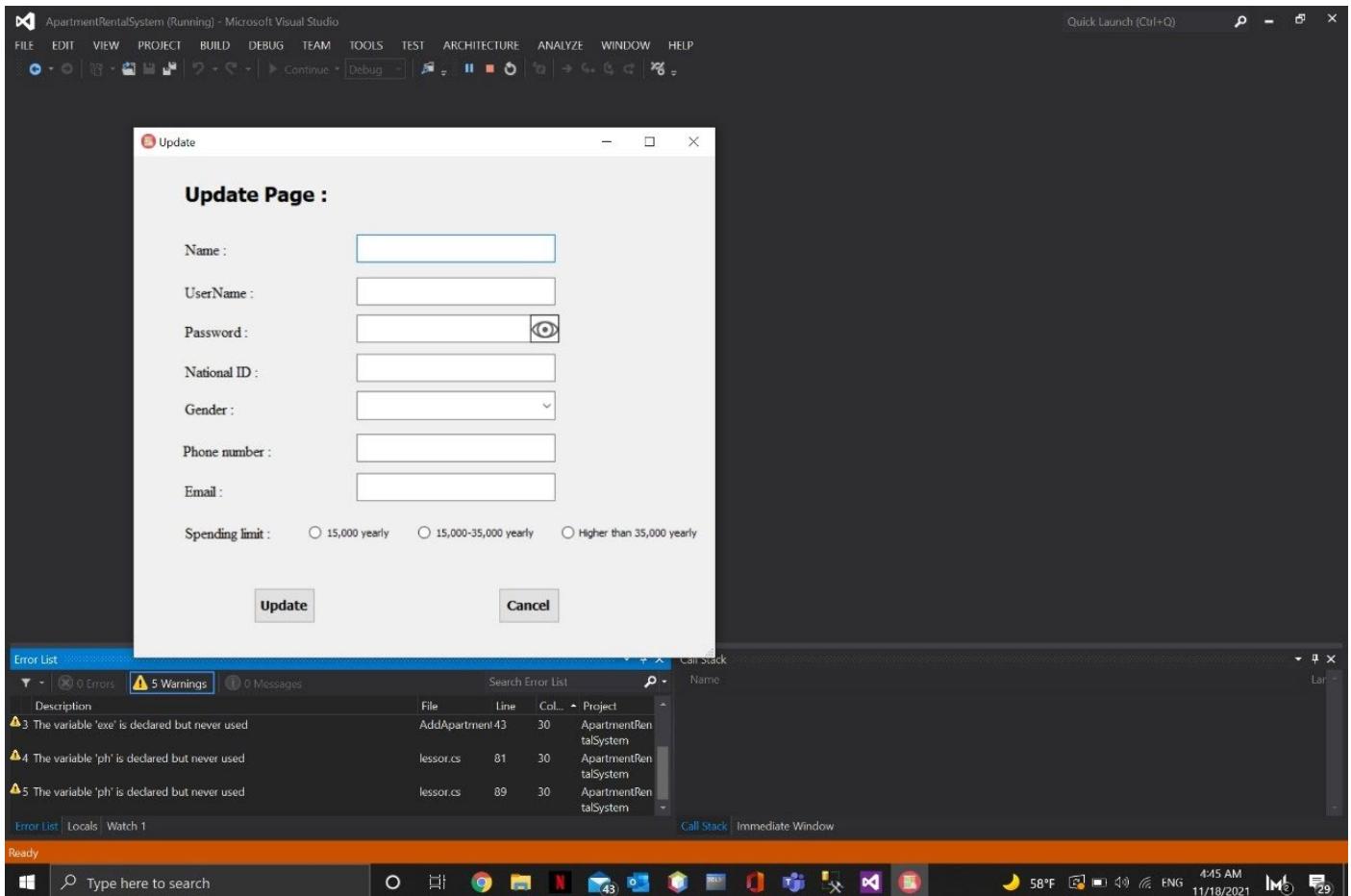
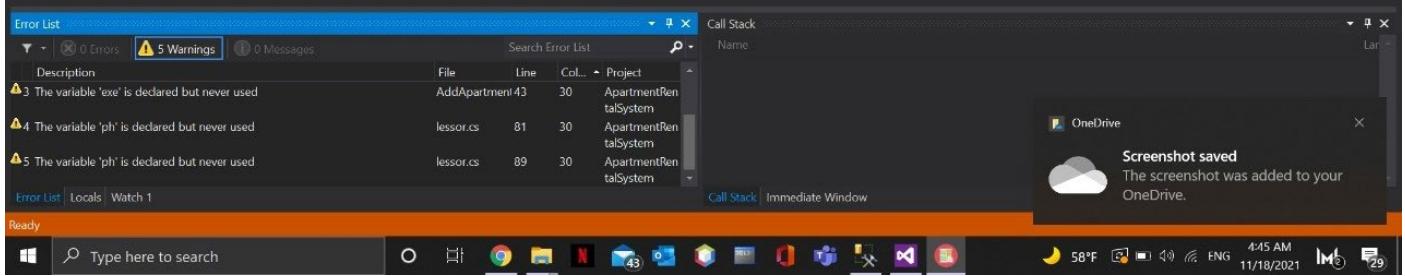
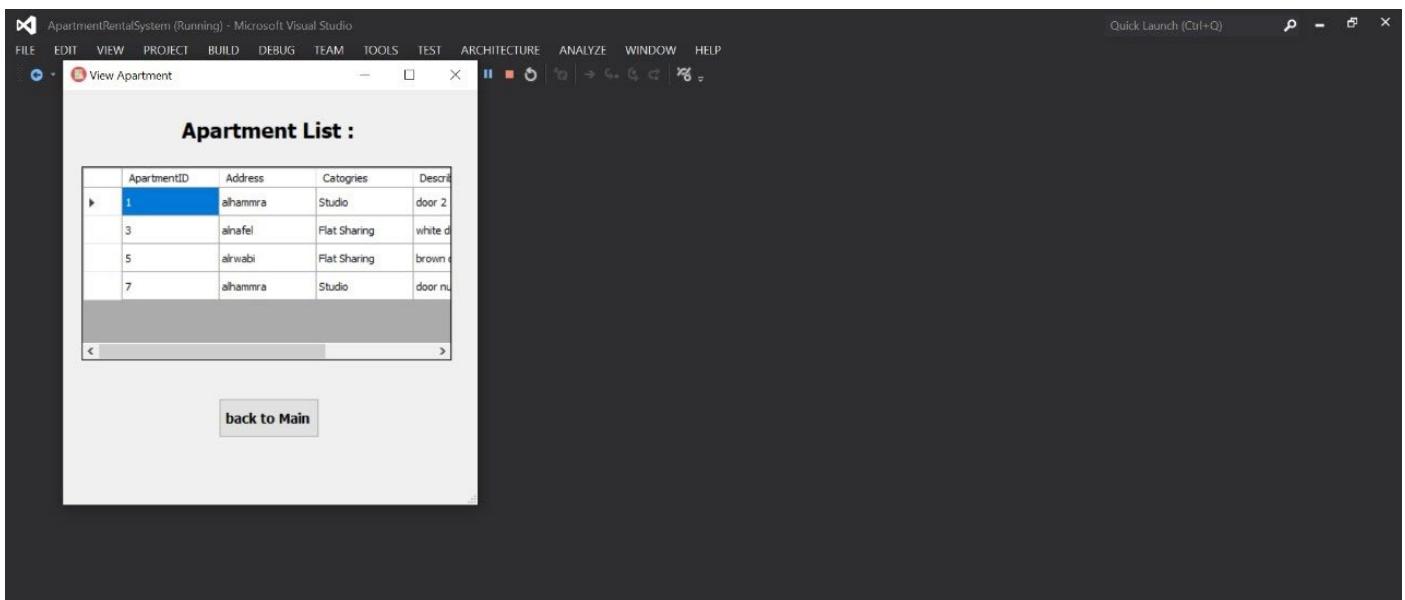


5 - Snapshots of execution trace:

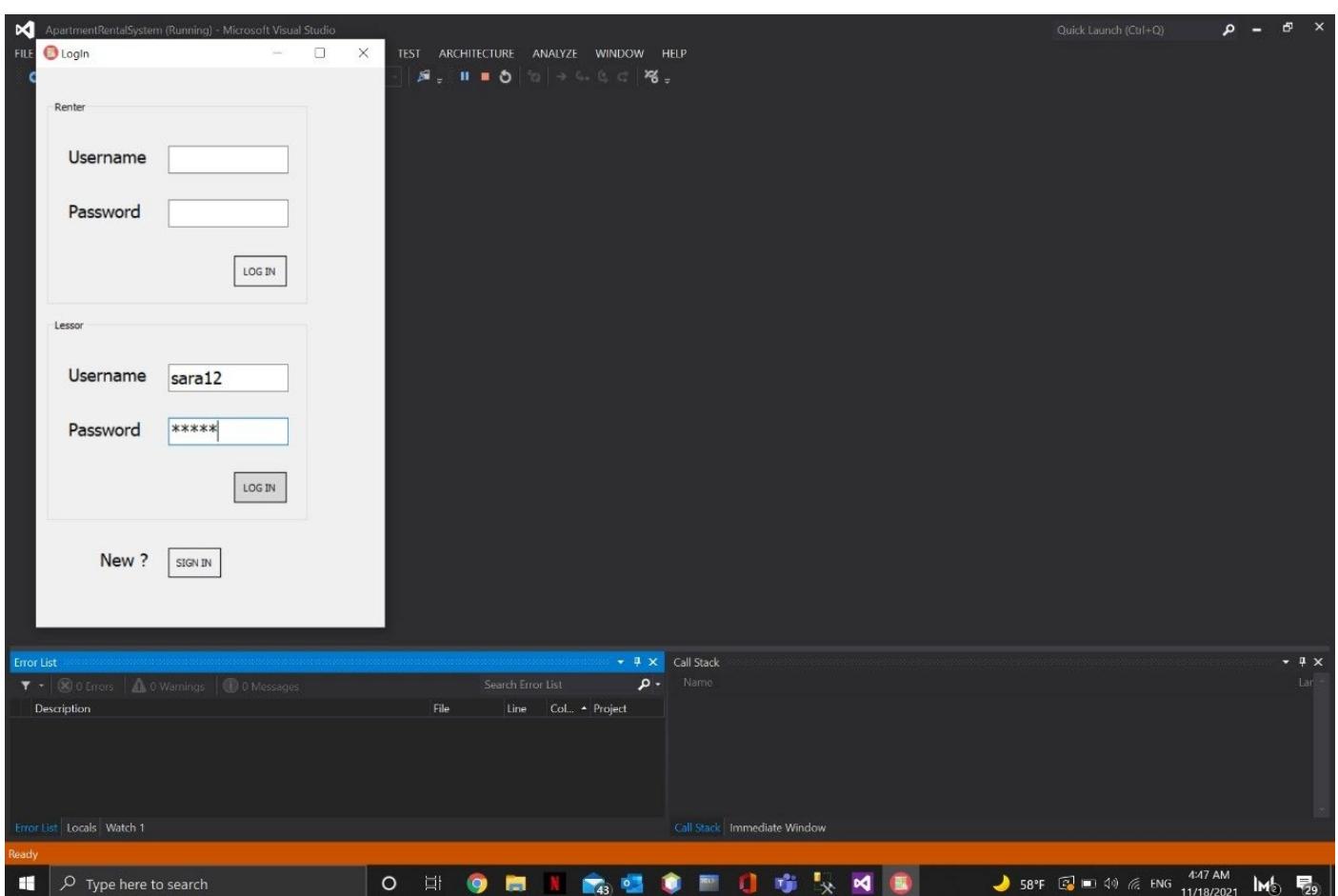
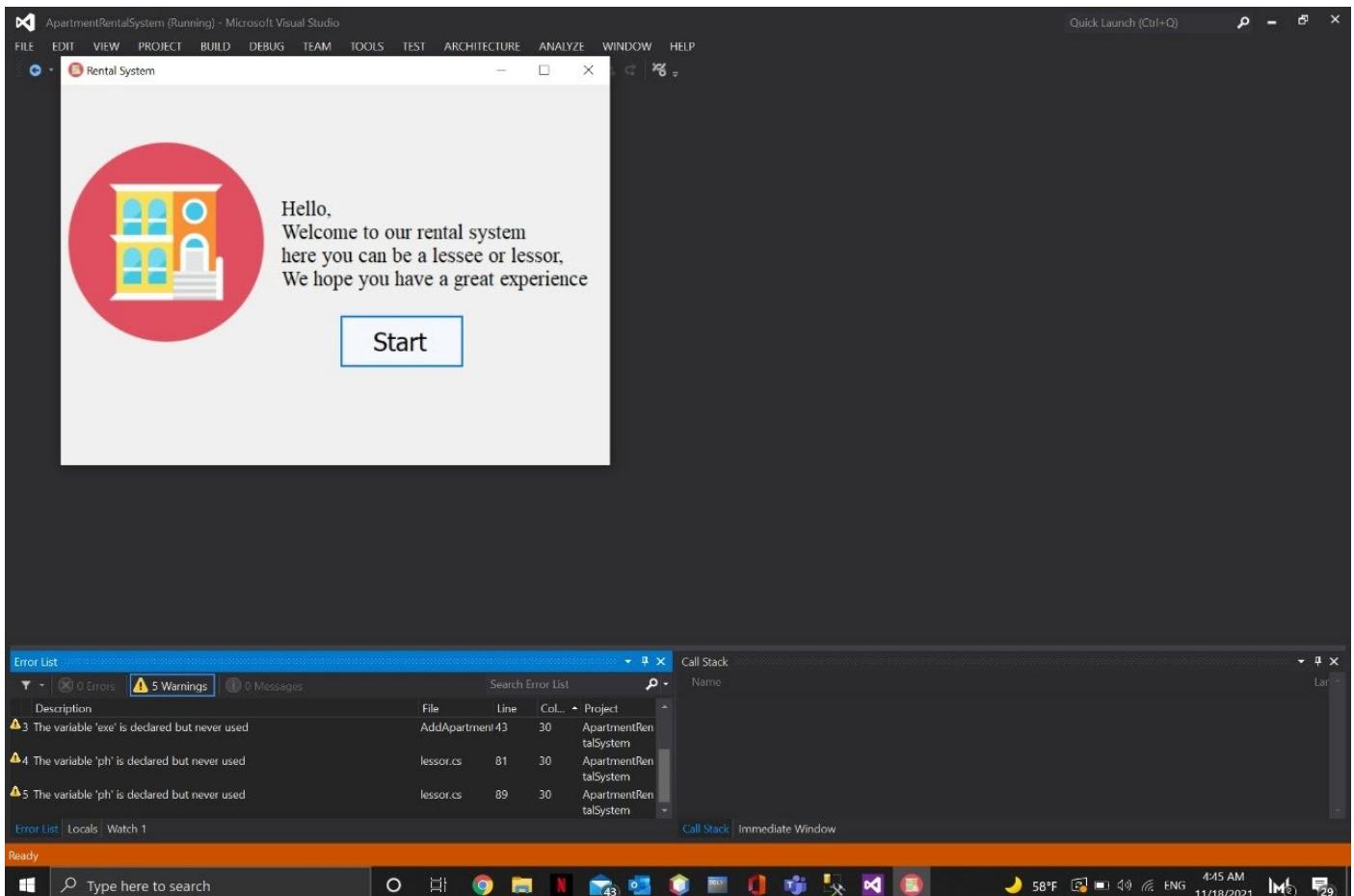
The Out Put for the Renter (Previously registered):

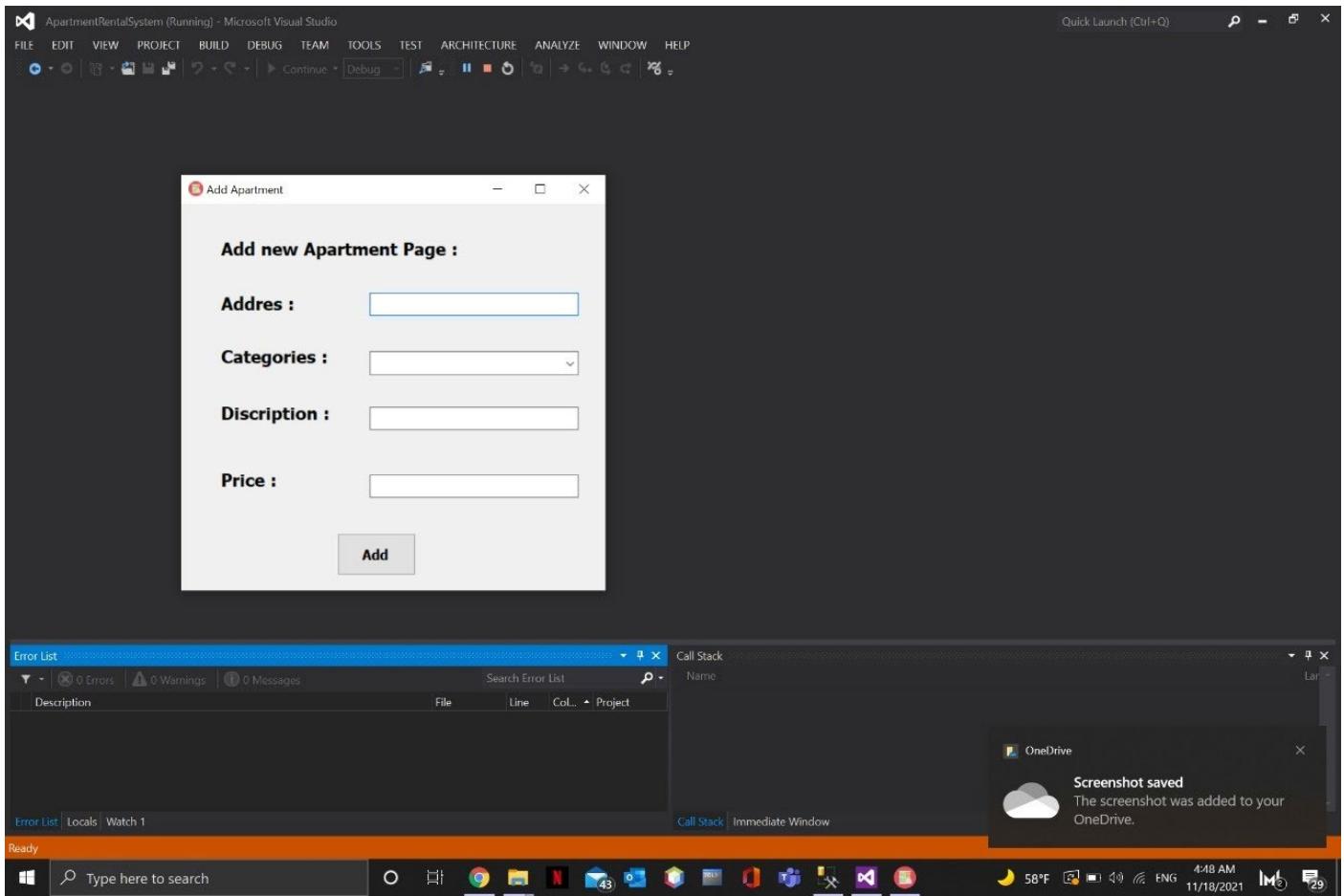
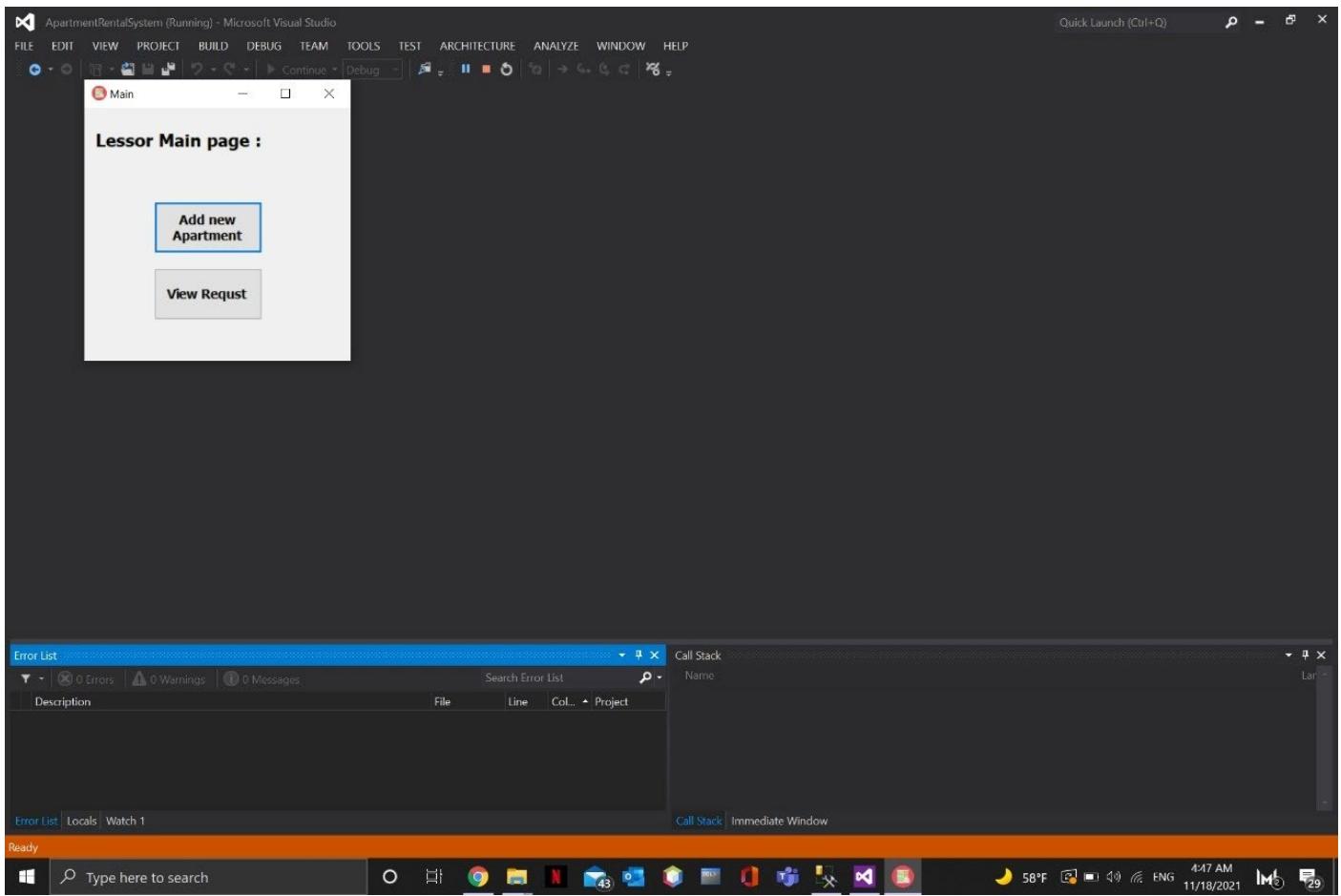


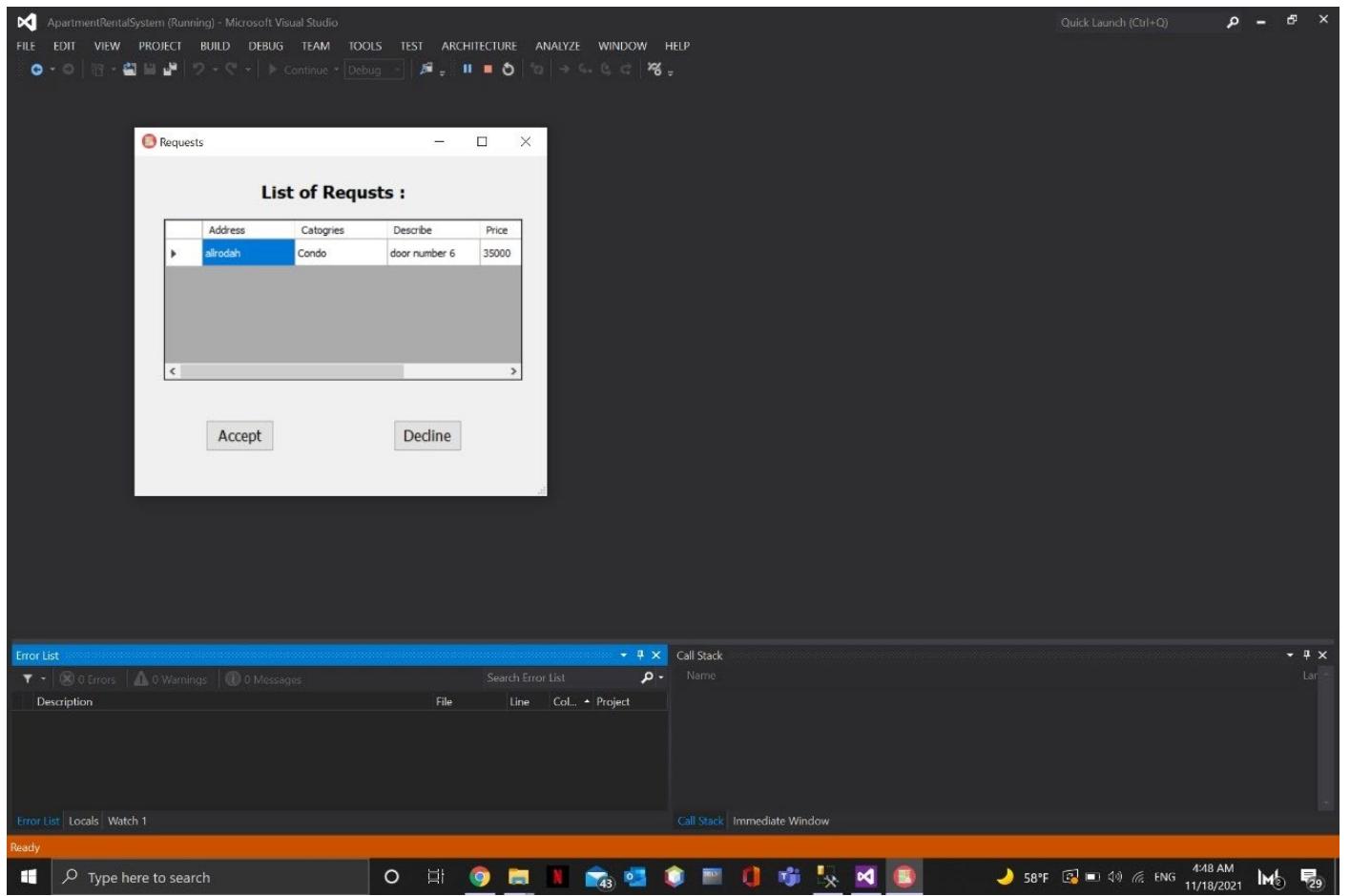




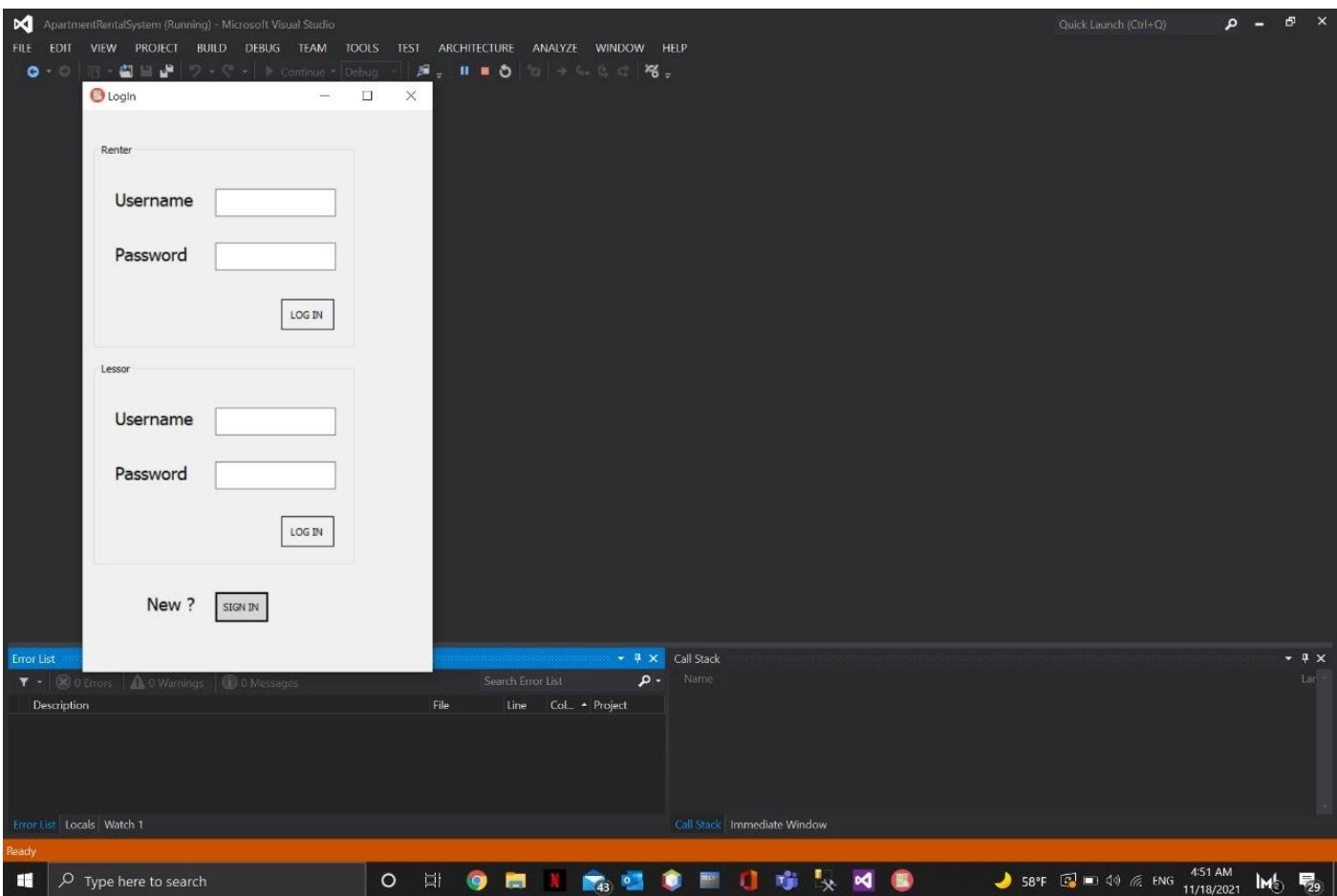
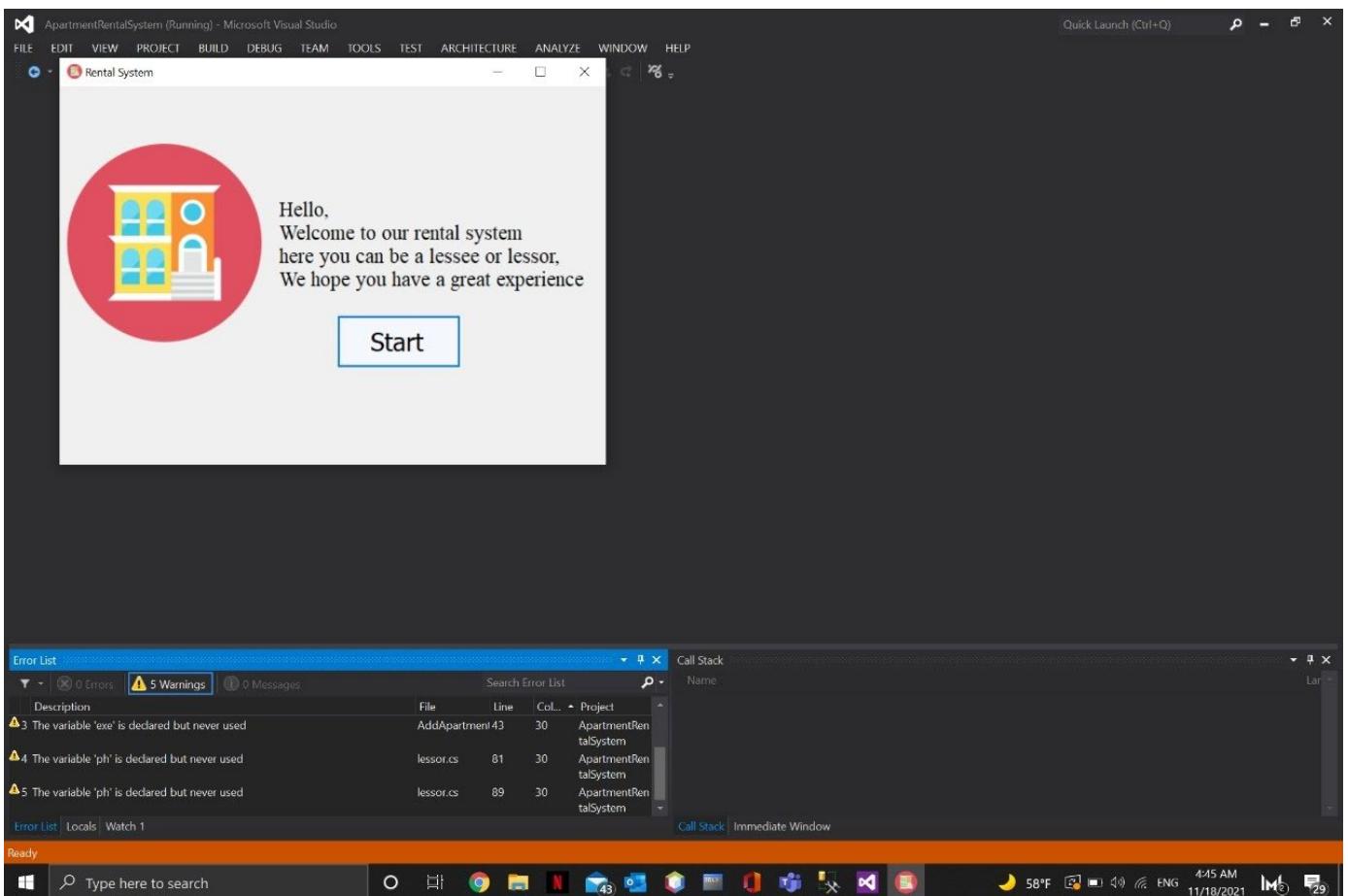
The Out Put for the Lessor (Previously registered):

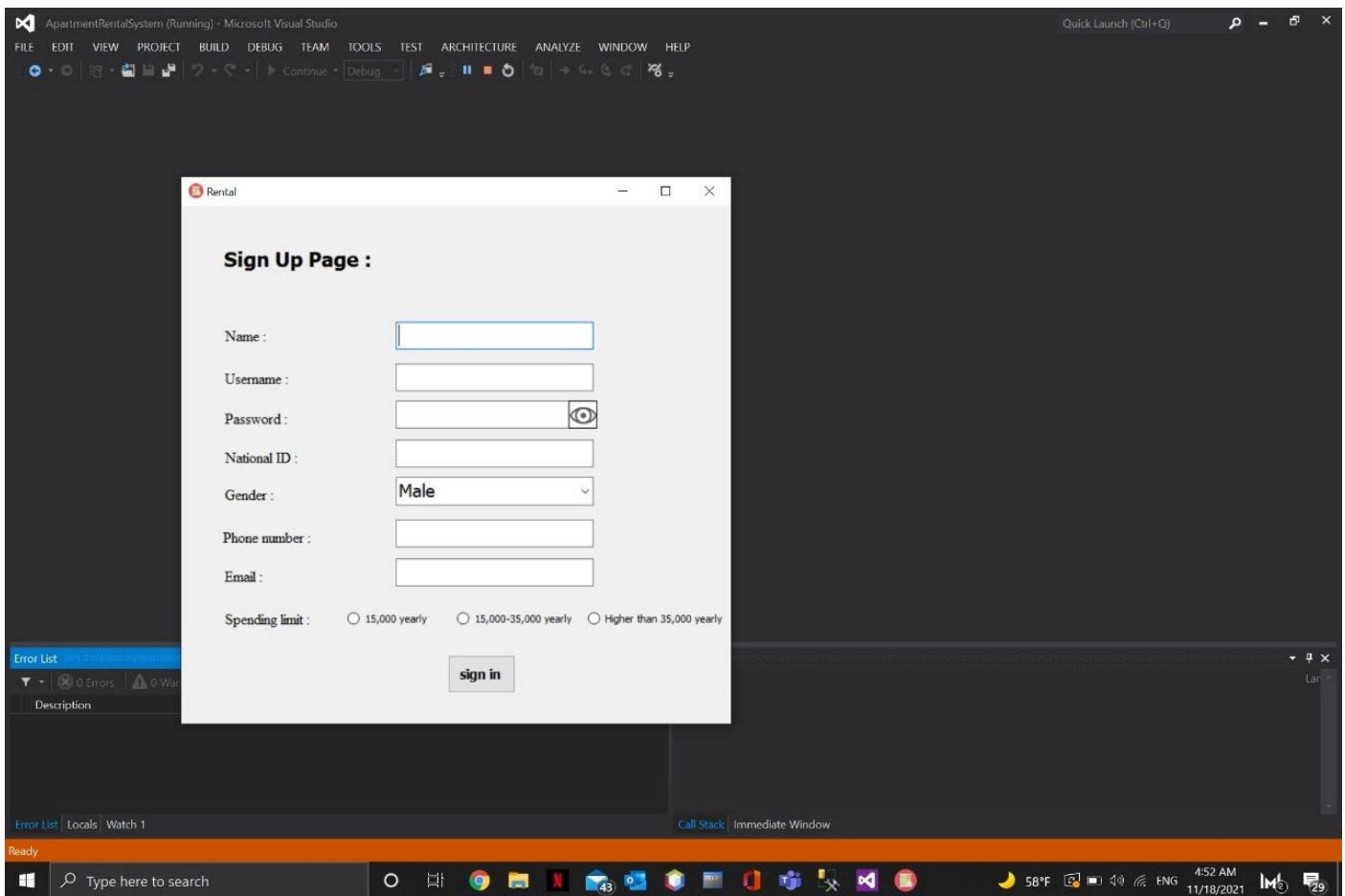
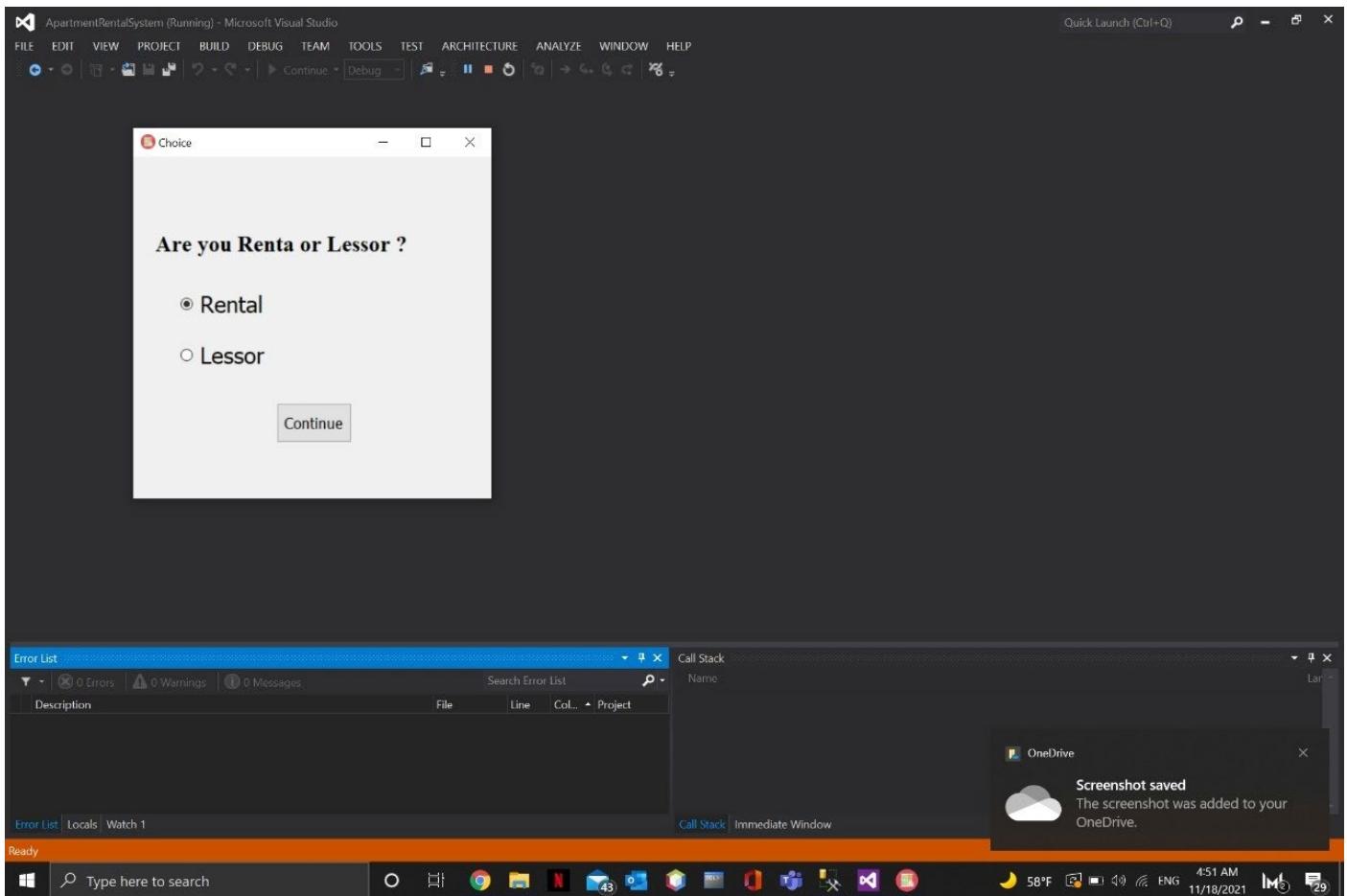




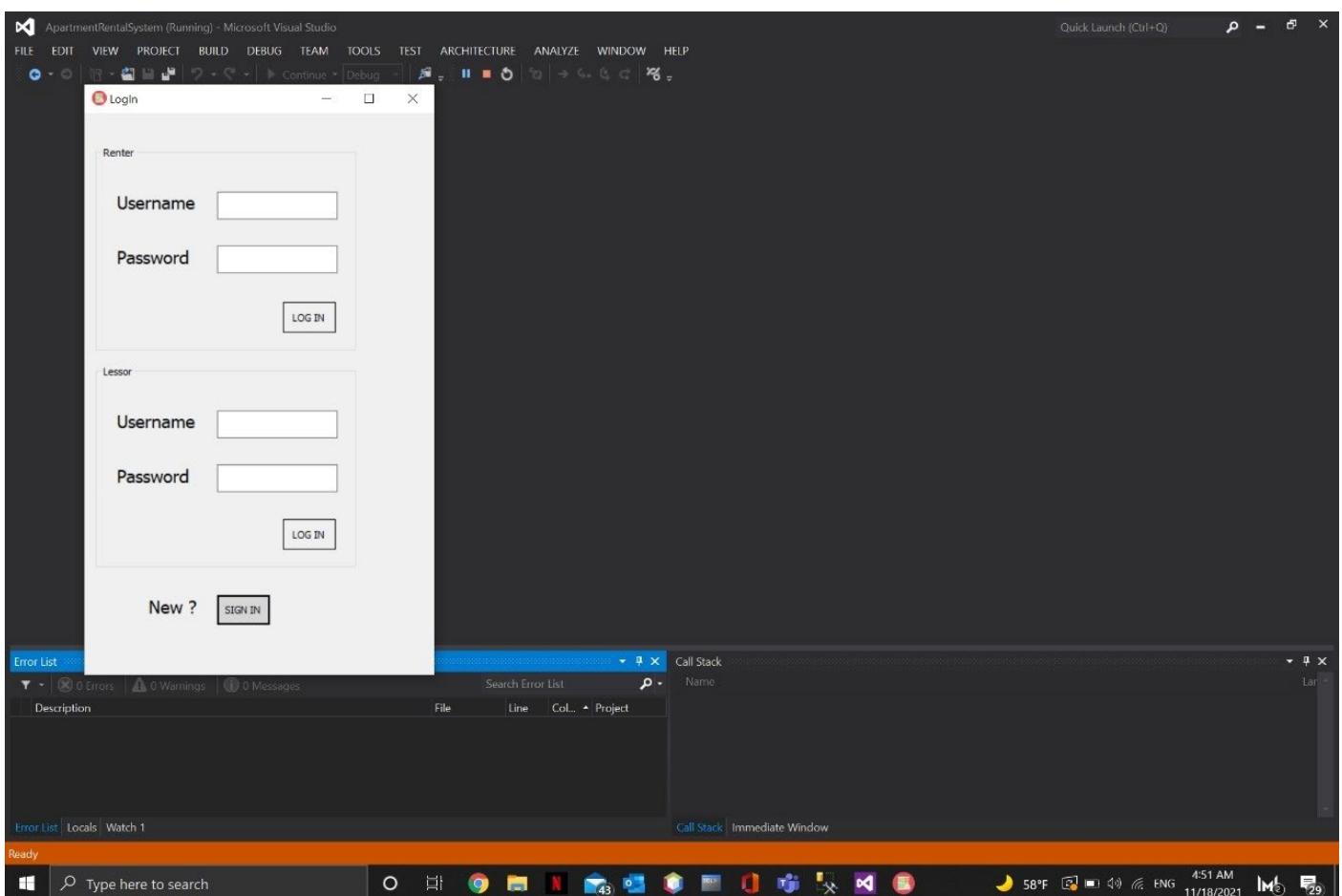
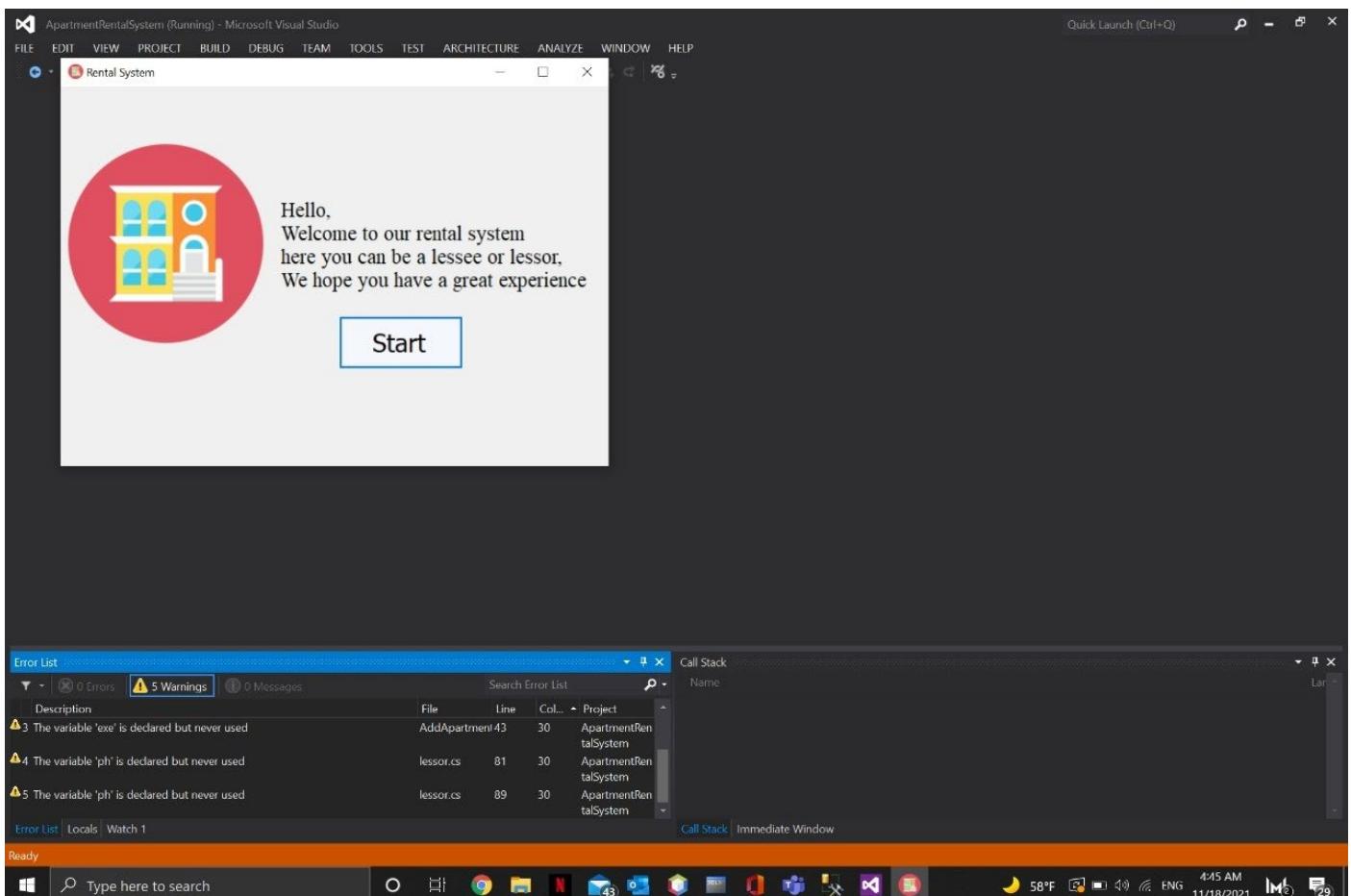


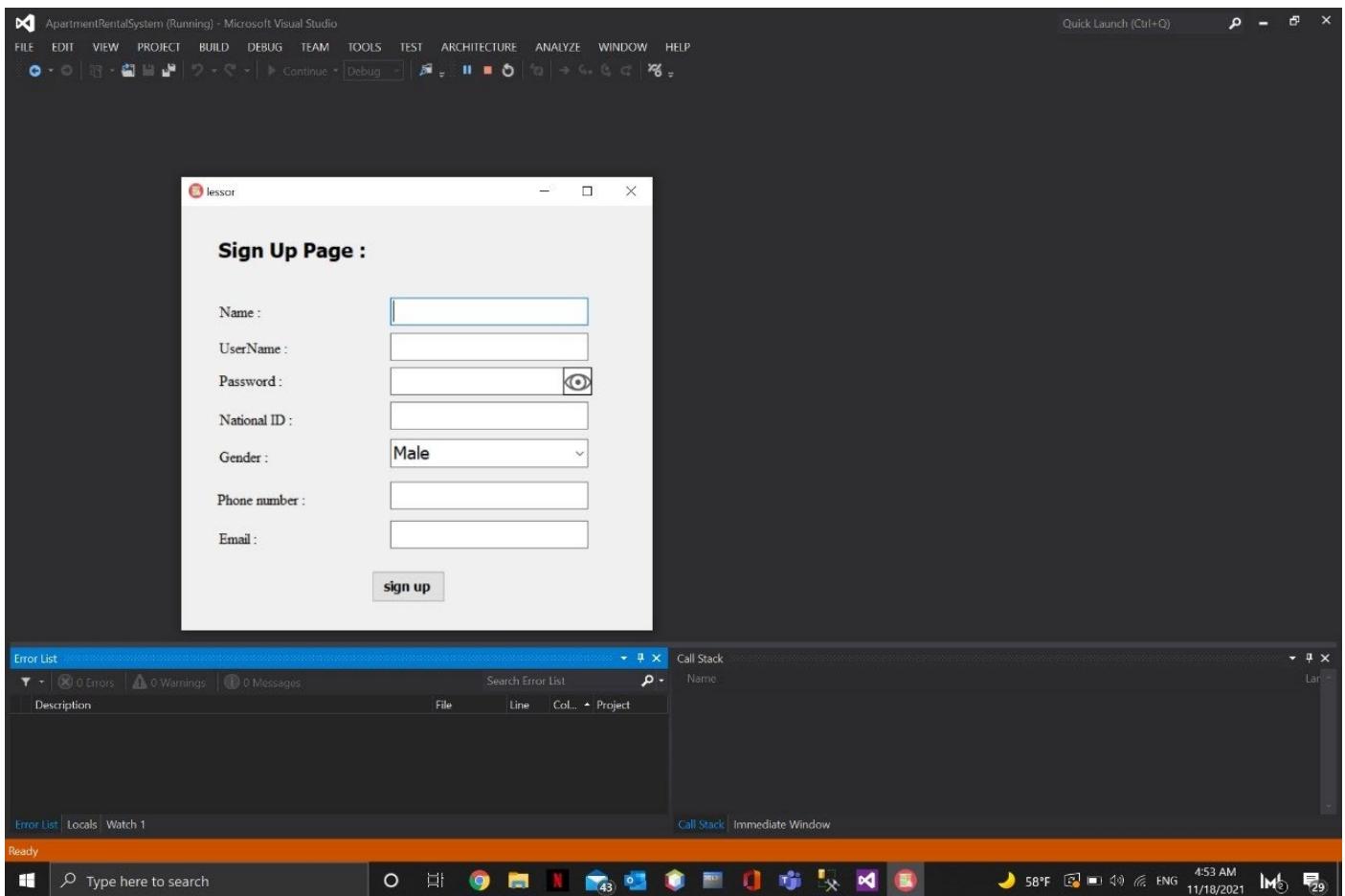
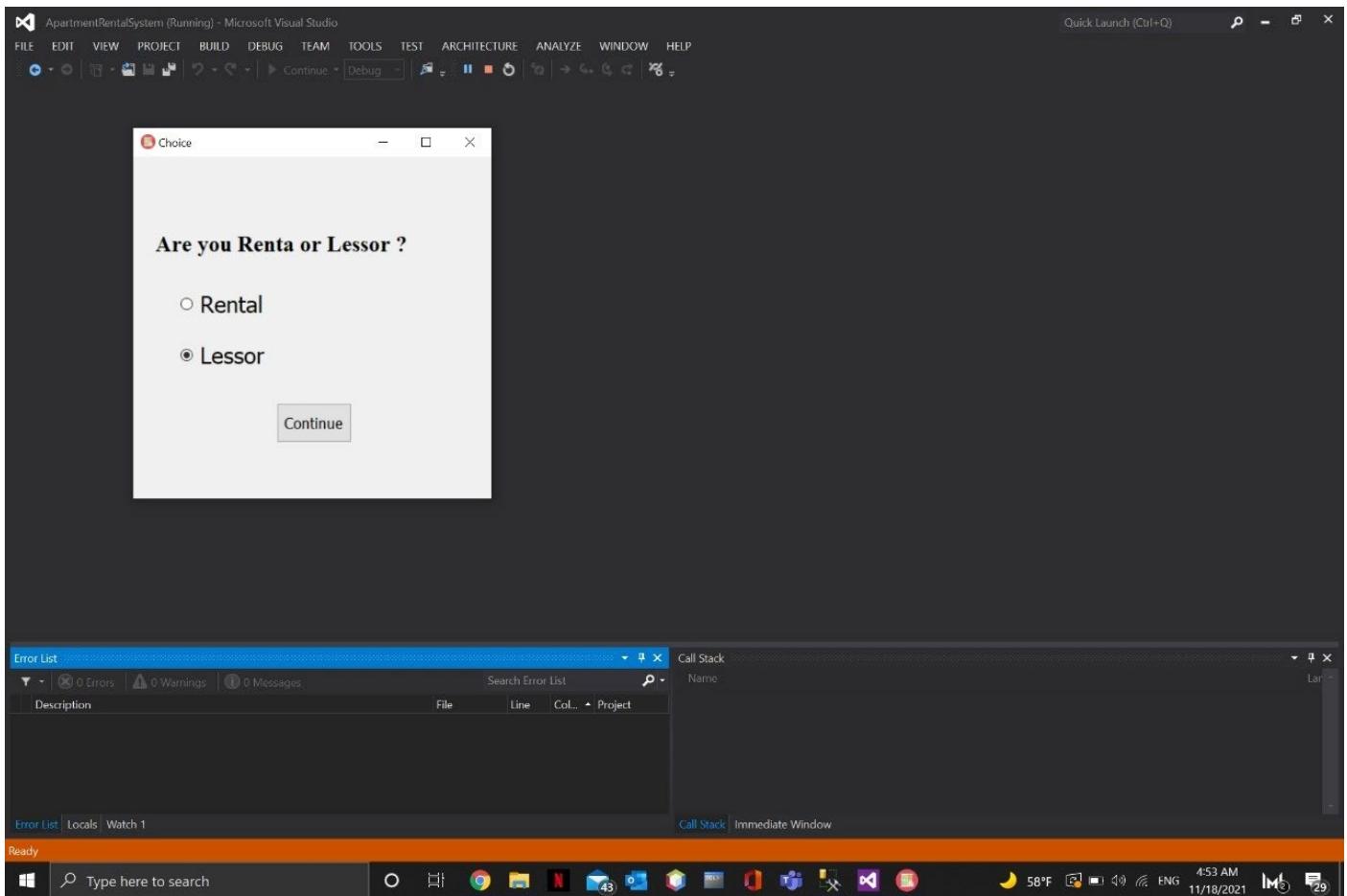
The Out Put of the Renter makes a new registration:





The Lessor creates a new account:





6 - Snapshots of the Code:

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Form1.cs

```
ApartmentRentalSystem.Form1
```

```
Form1.cs
```

```
ApartmentRentalSystem
```

```
public partial class Form1 : Form
```

```
    public Form1()
```

```
        InitializeComponent();
```

```
    
```

```
    private void button1_Click(object sender, EventArgs e)
```

```
    {
```

```
        LogIn login = new LogIn();
```

```
        login.Show();
```

```
        Visible = false;
```

```
}
```

```
}
```

100 %

Error List

0 Errors | 0 Warnings | 0 Messages

Ready

Type here to search

Ln 1 Col 1 Ch 1 5:06 AM 11/18/2021

This screenshot shows the Microsoft Visual Studio interface with the 'Form1.cs' file open. The code defines a partial class 'Form1' that inherits from 'Form'. It contains a constructor that calls 'InitializeComponent()' and a click event handler for 'button1' that creates a new 'LogIn' instance and shows it. The 'Visible' property is set to 'false' after the login form is shown. The solution explorer on the right shows the project structure with files like 'Form1.cs', 'Lessor.cs', 'LessorReq.cs', 'Login.cs', 'Mainless.cs', 'Mainrent.cs', 'Rental.cs', 'rentalORLessor.cs', 'Update.cs', and 'ViewApar.cs'.

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

LogIn.cs

```
ApartmentRentalSystem
```

```
public partial class LogIn : Form
```

```
    public LogIn()
```

```
        InitializeComponent();
```

```
    
```

```
    private void button2_Click(object sender, EventArgs e)
```

```
    {
```

```
        rentalORLessor login = new rentalORLessor();
```

```
        login.Show();
```

```
        Visible = false;
```

```
}
```

```
    
```

```
    private void button3_Click(object sender, EventArgs e)
```

```
    {
```

```
        if (textBox1.Text.Trim() != "" && textBox2.Text.Trim() != "")
```

```
        {
```

```
            var login = DB.Rental_Table.Where(log => log.Username == textBox2.Text.Trim() && log.Password == textBox1.Text.Trim()).FirstOrDefault();
```

```
            if (login == null)
```

```
            {
```

```
                MessageBox.Show("Please enter password and username");
```

```
            }
```

```
            else
```

```
        }
```

```
    }
```

100 %

Error List

0 Errors | 0 Warnings | 0 Messages

Ready

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Ln 28 Col 14 Ch 14 5:07 AM 11/18/2021

This screenshot shows the Microsoft Visual Studio interface with the 'LogIn.cs' file open. The code defines a partial class 'LogIn' that inherits from 'Form'. It contains a constructor that calls 'InitializeComponent()', a click event handler for 'button2' that creates a new 'rentalORLessor' instance and shows it, and a click event handler for 'button3' that checks if both text boxes are filled and attempts to find a user in the database. If the user is found, it shows a message box; otherwise, it shows a message asking for password and username. The solution explorer on the right shows the project structure with files like 'Form1.cs', 'Lessor.cs', 'LessorReq.cs', 'Login.cs', 'Mainless.cs', 'Mainrent.cs', 'Rental.cs', 'rentalORLessor.cs', 'Update.cs', and 'ViewApar.cs'.

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Quick Launch (Ctrl+Q)

Solution Explorer

Properties

LogIn.cs

```
if (login == null)
{
    MessageBox.Show("Please enter password and username");
}
else
{
    Program.reid = login.RentalID;
    MainRental main = new MainRental();
    main.Show();
    Visible = false;
}
else
{
    MessageBox.Show("Please enter password and username correctly");
}

private void button8_Click(object sender, EventArgs e)
{
    if (textBox5.Text.Trim() != "" & textBox6.Text.Trim() != "")
    {
        var login = DB.Lessor_Table.Where(log => log.Username == textBox6.Text.Trim() && log.Password
        == textBox5.Text.Trim()).FirstOrDefault();

        if (login == null)
        {
            MessageBox.Show("Please enter password and username");
        }
        else
        {
```

Error List

Description

Search Error List

File Line Col. Project

Ready

Type here to search

Ln 28 Col 14 Ch 14 INS

58°F ENG 5:07 AM 11/18/2021 29

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Quick Launch (Ctrl+Q)

Solution Explorer

Properties

LogIn.cs

```
private void button8_Click(object sender, EventArgs e)
{
    if (textBox5.Text.Trim() != "" & textBox6.Text.Trim() != "")
    {
        var login = DB.Lessor_Table.Where(log => log.Username == textBox6.Text.Trim() && log.Password
        == textBox5.Text.Trim()).FirstOrDefault();

        if (login == null)
        {
            MessageBox.Show("Please enter password and username");
        }
        else
        {
            MainLessor main = new MainLessor();
            main.Show();
            Visible = false;
        }
    }
    else
    {
        MessageBox.Show("Please enter password and username correctly");
    }
}
```

Error List

Description

Search Error List

File Line Col. Project

Ready

Type here to search

Ln 28 Col 14 Ch 14 INS

58°F ENG 5:07 AM 11/18/2021 29

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

MainRental.cs

```
namespace ApartmentRentalSystem
{
    public partial class MainRental : Form
    {
        public MainRental()
        {
            InitializeComponent();
        }
        private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();

        private void MainRental_Load(object sender, EventArgs e)
        {
            var rent = (from r in DB.Rental_Table where r.RentalID == Program.reid select r).FirstOrDefault();

        }

        private void button1_Click(object sender, EventArgs e)
        {
            RApartment R = new RApartment();

            this.Hide();
            R.ShowDialog();
            this.Show();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Update up = new Update();
            this.Hide();
        }
    }
}
```

100 %

Error List

0 Errors | 0 Warnings | 0 Messages

Description

Search Error List

File Line Col. Project

Solution Explorer

Properties

Toolbox

Task List

Output

Quick Launch (Ctrl+Q)

Solution Explorer

Search Solution

Solution 'ApartmentRentalSystem'
 - ApartmentRentalSystem
 - Properties
 - References
 - Resources
 - AddApartment
 - Apartment
 - App.conf
 - Form1.cs
 - lessor.cs
 - Login.cs
 - Maintainer
 - packages
 - Program
 - RApartment
 - Rental.cs
 - rentalORI
 - Update.cs
 - ViewApartment

Form1.cs

lessor.cs

Login.cs

Maintainer.cs

packages

Program.cs

RApartment.cs

Rental.cs

rentalORI.cs

Update.cs

ViewApartment.cs

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

MainRental.cs

```
namespace ApartmentRentalSystem
{
    public partial class MainRental : Form
    {
        public MainRental()
        {
            InitializeComponent();
            this.Show();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Update up = new Update();
            this.Hide();
            up.ShowDialog();
            this.Show();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            UpdateApartment up = new UpdateApartment(); // view apartment form
            this.Hide();
            up.ShowDialog();
            this.Show();
        }
    }
}
```

100 %

Error List

0 Errors | 0 Warnings | 0 Messages

Description

Search Error List

File Line Col. Project

Solution Explorer

Properties

Toolbox

Task List

Output

Quick Launch (Ctrl+Q)

Solution Explorer

Search Solution

Solution 'ApartmentRentalSystem'
 - ApartmentRentalSystem
 - Properties
 - References
 - Resources
 - AddApartment
 - Apartment
 - App.conf
 - Form1.cs
 - lessor.cs
 - Login.cs
 - Maintainer
 - packages
 - Program
 - RApartment
 - Rental.cs
 - rentalORI
 - Update.cs
 - ViewApartment

Form1.cs

lessor.cs

Login.cs

Maintainer.cs

packages

Program.cs

RApartment.cs

Rental.cs

rentalORI.cs

Update.cs

ViewApartment.cs

ApartmentRentalSystem - Microsoft Visual Studio

MainLessor.cs

```
using System.Windows.Forms;

namespace ApartmentRentalSystem
{
    public partial class MainLessor : Form
    {
        public MainLessor()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            AddApartment add = new AddApartment();

            add.Show();
            Visible = false;
        }

        private void button2_Click(object sender, EventArgs e)
        {
            LessorReq l = new LessorReq();

            this.Hide();
            l.ShowDialog();
            this.Show();
        }
    }
}
```

Error List

Ready

Windows Taskbar

ApartmentRentalSystem - Microsoft Visual Studio

RApartment.cs

```
public partial class RApartment : Form
{
    private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();

    public RApartment()
    {
        InitializeComponent();
    }

    private void RApartment_Load(object sender, EventArgs e)
    {
        var rent = (from r in DB.Rental_Table where r.RentalID == Program.reid select r).FirstOrDefault();

        if (rent.Spinding_Limit < 15000)
        {
            var Apartment =
                from apartment in DB.Apartment_Table
                where apartment.StatusApartment == 1 && apartment.Price < 15000
                select new { apartment.ApartmentID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
            dataGridView1.DataSource = Apartment.ToList();
            dataGridView1.Columns[0].Visible = false;
        }
        else if (rent.Spinding_Limit < 35000)
        {
            var Apartment =
                from apartment in DB.Apartment_Table
                where apartment.StatusApartment == 1 && apartment.Price < 35000
                select new { apartment.ApartmentID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
            dataGridView1.DataSource = Apartment.ToList();
        }
    }
}
```

Error List

Ready

Windows Taskbar

ApartmentRentalSystem - Microsoft Visual Studio

RApartment.cs

```
var Apartment =
    from apartment in DB.Apartment_Table
    where apartment.StatusApartment == 1 && apartment.Price < 35000
    select new { apartment.ApartmenID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
dataGridView1.DataSource = Apartment.ToList();
dataGridView1.Columns[0].Visible = false;
}
else
{
    var Apartment =
        from apartment in DB.Apartment_Table
        where apartment.StatusApartment == 1
        select new { apartment.ApartmenID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
    dataGridView1.DataSource = Apartment.ToList();
    dataGridView1.Columns[0].Visible = false;
}

private void button1_Click(object sender, EventArgs e)
{
    if (dataGridView1.RowCount == 0)
    {
        MessageBox.Show("there is no available Apartment");
        return;
    }

    int ApartmentID = Convert.ToInt32(dataGridView1.Rows[dataGridView1.SelectedCells[0].RowIndex].Cells[0].Value.ToString());
```

Error List

Ready

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Windows Taskbar: Type here to search, File Explorer, Google Chrome, File Manager, Task View, Taskbar icons, Weather (58°F), Language (ENG), Date (11/18/2021), Battery (29%)

ApartmentRentalSystem - Microsoft Visual Studio

RApartment.cs

```
return;

int ApartmentID = Convert.ToInt32(dataGridView1.Rows[dataGridView1.SelectedCells[0].RowIndex].Cells[0].Value.ToString());
var rentaluser = (from ru in DB.Rent_apartment_Table
                  where ru.Re_id == Program.reid
                  select ru).ToList();
if (rentaluser.Count > 0)
{
    MessageBox.Show("canot request new apartment : ");
}
else
{
    RequestRent_Table request = new RequestRent_Table();
    request.Re_Id = Program.reid;
    request.Ap_Id = ApartmentID;
    request.Status = "Pending";
    DB.RequestRent_Table.Add(request);
    var apa = (from ap in DB.Apartment_Table where ap.ApartmenID == ApartmentID select ap).FirstOrDefault();
    apa.StatusApartment = 2;
    //DB.Apartment_Table.Remove(apa);
    DB.SaveChanges();
    /////suucc
    Close();
}
```

private void button2_Click(object sender, EventArgs e)

Error List

Ready

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Windows Taskbar: Type here to search, File Explorer, Google Chrome, File Manager, Task View, Taskbar icons, Weather (58°F), Language (ENG), Date (11/18/2021), Battery (29%)

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

RApartment.cs

```
using System;
using System.Data.Entity;
using ApartmentRentalSystem.DB;

namespace ApartmentRentalSystem.RApartment
{
    public partial class RApartment : Form
    {
        private Apartment apa;
        private DB DB;

        public RApartment()
        {
            InitializeComponent();
            DB = new DB();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            if (DB != null)
            {
                apa.StatusApartment = 2;
                //DB.Apartments.Remove(apa);
                DB.SaveChanges();
                //SUCCESS
                Close();
            }
        }

        private void button2_Click(object sender, EventArgs e)
        {
            this.Close();
        }
    }
}
```

Properties Data Sources Solution Explorer

Error List

Ready

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5:09 AM 11/18/2021

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

ViewApartment.cs

```
using System;
using System.Data.Entity;
using ApartmentRentalSystem.DB;

namespace ApartmentRentalSystem.UpdateApartment
{
    public partial class UpdateApartment : Form
    {
        public UpdateApartment()
        {
            InitializeComponent();
        }

        private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();

        private void UpdateApartment_Load(object sender, EventArgs e)
        {
            var rent = (from r in DB.Rental_Table where r.RentalID == Program.reid select r).FirstOrDefault();

            if (rent.Spinning_Limit < 15000)
            {
                var Apartment =
                    from apartment in DB.Apartment_Table
                    where apartment.StatusApartment == 1 && apartment.Price < 15000
                    select new { apartment.ApartmentID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
                dataGridView1.DataSource = Apartment.ToList();
            }
            else if (rent.Spinning_Limit < 35000)
            {
                var Apartment =
                    from apartment in DB.Apartment_Table
                    where apartment.StatusApartment == 1 && apartment.Price < 35000
                    select new { apartment.ApartmentID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
                dataGridView1.DataSource = Apartment.ToList();
            }
        }
    }
}
```

Properties Data Sources Solution Explorer

Error List

Ready

Type here to search

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5:10 AM 11/18/2021

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

ViewApartment.cs

```
else if (rent.Spinning_Limit < 35000)
{
    var Apartment =
        from apartment in DB.Apartment_Table
        where apartment.StatusApartment == 1 && apartment.Price < 35000
        select new { apartment.ApartmenID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
    dataGridView1.DataSource = Apartment.ToList();
}
else
{
    var Apartment =
        from apartment in DB.Apartment_Table
        where apartment.StatusApartment == 1
        select new { apartment.ApartmenID, apartment.Address, apartment.Catogries, apartment.Describe, apartment.Price };
    dataGridView1.DataSource = Apartment.ToList();
}

private void button1_Click(object sender, EventArgs e)
{
    MainRental main = new MainRental();

    this.Hide();
    main.ShowDialog();
}
```

100 %

Error List

Description 0 Errors 0 Warnings 0 Messages

Ready

Type here to search

Ln 20 Col 9 Ch 9 OVR

58°F ENG 5:10 AM 11/18/2021 29

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

AddApartment.cs

```
namespace ApartmentRentalSystem
{
    public partial class AddApartment : Form
    {
        public AddApartment()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();

            if (textBox1.Text.Trim() == "")
            {
                MessageBox.Show("Please enter value ");
            }
            if (textBox2.Text.Trim() == "")
            {
                MessageBox.Show("Please enter value ");
            }
            if (textBox3.Text.Trim() == "")
            {
                MessageBox.Show("Please enter value ");
            }

            double price;
            try
            {
                price = Convert.ToDouble(textBox2.Text.Trim());
            }
```

100 %

Error List

Description 0 Errors 1 Warning 0 Messages

⚠ 1 The variable 'exe' is declared but never used

Search Error List

AddApartment 43 30 ApartmentRentalSystem

Ready

Type here to search

Ln 1 Col 1 Ch 1 OVR

58°F ENG 5:11 AM 11/18/2021 29

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

AddApartment.cs

```
double price;
try
{
    price = Convert.ToDouble(textBox2.Text.Trim());
}
catch (Exception exe)
{
    MessageBox.Show("Please enter legal value");
}

Apartment_Table apart = new Apartment_Table();

apart.Describe = textBox3.Text;
apart.Address = textBox1.Text;
apart.Price = Convert.ToDouble(textBox2.Text);
apart.Catogries = comboBox1.SelectedItem;
if (comboBox1.SelectedIndex == 0)
{
    apart.Catogries = comboBox1.Text;
}
if (comboBox1.SelectedIndex == 1)
{
    apart.Catogries = comboBox1.Text;
}
if (comboBox1.SelectedIndex == 2)
{
    apart.Catogries = comboBox1.Text;
}
apart.StatusApartment = 1;
```

100 %

Error List

Description

1 The variable 'exe' is declared but never used

Ready

Type here to search

Ln 1 Col 1 Ch 1 OVR

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ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

AddApartment.cs

```
Apartment_Table apart = new Apartment_Table();

apart.Describe = textBox3.Text;
apart.Address = textBox1.Text;
apart.Price = Convert.ToDouble(textBox2.Text);
apart.Catogries = comboBox1.SelectedItem;
if (comboBox1.SelectedIndex == 0)
{
    apart.Catogries = comboBox1.Text;
}
if (comboBox1.SelectedIndex == 1)
{
    apart.Catogries = comboBox1.Text;
}
if (comboBox1.SelectedIndex == 2)
{
    apart.Catogries = comboBox1.Text;
}
apart.StatusApartment = 1;
DB.Apartment_Table.Add(apart);
DB.SaveChanges();

MainLessor main = new MainLessor();

this.Hide();
main.Show();
```

100 %

Error List

Description

1 The variable 'exe' is declared but never used

Ready

Type here to search

Ln 1 Col 1 Ch 1 OVR

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```
namespace ApartmentRentalSystem
{
    public partial class Update : Form
    {
        private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();

        public Update()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {

            try
            {
                var update =
                    (from up in DB.Rental_Table
                     where up.RentalID == Program.reid
                     select up).FirstOrDefault();
                update.Name = textBox1.Text;
                update.Username = textBox6.Text;
                update.Password = textBox5.Text;
                update.NID = Convert.ToInt32(textBox2.Text);
                update.PhoneNum = Convert.ToInt32(textBox3.Text);
                update.Email = textBox4.Text;
                update.Gender = comboBox2.SelectedText;
                int spending;
                if (radioButton1.Checked)
                {
                    spending = 14999;
                    update.Spinding_Limit = spending;
                }
                else if (radioButton2.Checked)
                {
                    spending = 34999;
                    update.Spinding_Limit = spending;
                }
                else
                {
                    spending = 35000;
                    update.Spinding_Limit = spending;
                }

                DB.SaveChanges();
                this.Close();
            }
            catch (Exception ewq)
            {
                MessageBox.Show("Please enter correct value ");
            }
        }

        private void button2_Click(object sender, EventArgs e)
        {

            this.Close();
        }
    }
}
```

1 The variable 'exe' is declared but never used

```
namespace ApartmentRentalSystem
{
    public partial class Update : Form
    {
        private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();

        public Update()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {

            try
            {
                var update =
                    (from up in DB.Rental_Table
                     where up.RentalID == Program.reid
                     select up).FirstOrDefault();
                update.Name = textBox1.Text;
                update.Username = textBox6.Text;
                update.Password = textBox5.Text;
                update.NID = Convert.ToInt32(textBox2.Text);
                update.PhoneNum = Convert.ToInt32(textBox3.Text);
                update.Email = textBox4.Text;
                update.Gender = comboBox2.SelectedText;
                int spending;
                if (radioButton1.Checked)
                {
                    spending = 14999;
                    update.Spinding_Limit = spending;
                }
                else if (radioButton2.Checked)
                {
                    spending = 34999;
                    update.Spinding_Limit = spending;
                }
                else
                {
                    spending = 35000;
                    update.Spinding_Limit = spending;
                }

                DB.SaveChanges();
                this.Close();
            }
            catch (Exception ewq)
            {
                MessageBox.Show("Please enter correct value ");
            }
        }

        private void button2_Click(object sender, EventArgs e)
        {

            this.Close();
        }
    }
}
```

1 The variable 'exe' is declared but never used

```
namespace ApartmentRentalSystem
{
    public partial class rentalORlessor : Form
    {
        public rentalORlessor()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            if (radioButton1.Checked)
            {
                Rental rental = new Rental();

                rental.Show();
                Visible = false;
            }
            if (radioButton2.Checked)
            {
                lessor lessor = new lessor();

                lessor.Show();
                Visible = false;
            }
        }
    }
}
```

Error List

- 0 Errors
- 4 Warnings
- 0 Messages

Description

⚠️ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

```
namespace ApartmentRentalSystem
{
    public partial class lessor : Form
    {
        private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();
        public lessor()
        {
            InitializeComponent();
            comboBox2.SelectedIndex = 0;
        }

        private void button3_Click(object sender, EventArgs e)
        {
            if (textBox5.PasswordChar == '\0')
            {
                button4.BringToFront();
                textBox5.PasswordChar = '*';
            }
        }

        private void button4_Click(object sender, EventArgs e)
        {
            if (textBox5.PasswordChar == '*')
            {
                button3.BringToFront();
                textBox5.PasswordChar = '\0';
            }
        }

        private void lessor_Load(object sender, EventArgs e)
        {
        }
    }
}
```

Error List

- 0 Errors
- 4 Warnings
- 0 Messages

Description

⚠️ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Solution Explorer

Properties

lessor.cs

```
private void lessor_Load(object sender, EventArgs e)
{
}

private void button1_Click(object sender, EventArgs e)
{
    int Pnum;
    int NID;
    if (textBox1.Text.Trim() == "")
    {
        MessageBox.Show("name cannot be empty ");
        return;
    }
    if (textBox6.Text.Trim() == "")
    {
        MessageBox.Show("username cannot be empty ");
        return;
    }
    if (textBox5.Text.Trim() == "")
    {
        MessageBox.Show("password cannot be empty ");
        return;
    }
    if (textBox2.Text.Trim() == "")
    {
        MessageBox.Show("National ID cannot be empty ");
        return;
    }
}
```

Error List

0 Errors 4 Warnings 0 Messages

Description

1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

File Line Col. Project

Program.cs 12 27 ApartmentRentalSystem

Ready

Type here to search

Ln 1 Col 1 Ch 1 INS

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ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Solution Explorer

Properties

lessor.cs

```
if (textBox2.Text.Trim() == "")
{
    MessageBox.Show("National ID cannot be empty ");
    return;
}
if (textBox3.Text.Trim() == "")
{
    MessageBox.Show("phone number cannot be empty ");
    return;
}

try
{
    Pnum = Convert.ToInt32(textBox3.Text);
}
catch (Exception ph)
{
    MessageBox.Show("phone number must be int ");
}
try
{
    NID = Convert.ToInt32(textBox3.Text);
}
catch (Exception ph)
{
    MessageBox.Show("National ID must be int ");
}

Lessor_Table lessor = new Lessor_Table();
```

Error List

0 Errors 4 Warnings 0 Messages

Description

1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

OneDrive

Screenshot saved

The screenshot was added to your OneDrive.

Ready

Type here to search

Ln 1 Col 1 Ch 1 INS

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```
        NID = Convert.ToInt32(textBox3.Text);
    }
    catch (Exception ph)
    {
        MessageBox.Show("National ID must be int ");
    }

    Lessor_Table lessor = new Lessor_Table();
    lessor.Name = textBox1.Text.Trim();
    lessor.Username = textBox6.Text.Trim();
    lessor.Password = textBox5.Text.Trim();
    lessor.NID = Convert.ToInt32(textBox2.Text.Trim());
    lessor.PhoneNum = Convert.ToInt32(textBox3.Text.Trim());
    lessor.Gender = comboBox2.SelectedItem ;
    lessor.Email = textBox4.Text.Trim();

    DB.Lessor_Table.Add(lessor);
    DB.SaveChanges();
    MainLessor L = new MainLessor();
    L.Show();
    Visible = false;

}
```

Error List

- 0 Errors
- 4 Warnings
- 0 Messages

Description

⚠ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

Screenshot saved
The screenshot was added to your OneDrive.

```
public partial class Rental : Form
{
    private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();
    public Rental()
    {
        InitializeComponent();
        comboBox2.SelectedIndex = 0;
    }

    private void button3_Click(object sender, EventArgs e)
    {
        if (textBox5.PasswordChar == '\0')
        {
            button4.BringToFront();
            textBox5.PasswordChar = '*';
        }
    }

    private void button4_Click(object sender, EventArgs e)
    {
        if (textBox5.PasswordChar == '*')
        {
            button3.BringToFront();
            textBox5.PasswordChar = '\0';
        }
    }
}
```

Error List

- 0 Errors
- 2 Warnings
- 0 Messages

Description

⚠ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Rental.cs

```
private void button1_Click(object sender, EventArgs e)
{
    if (textBox1.Text.Trim() == "")
    {
        MessageBox.Show("name cannot be empty ");
        return;
    }
    if (textBox6.Text.Trim() == "")
    {
        MessageBox.Show("username cannot be empty ");
        return;
    }
    if (textBox5.Text.Trim() == "")
    {
        MessageBox.Show("password cannot be empty ");
        return;
    }
    if (textBox2.Text.Trim() == "")
    {
        MessageBox.Show("National ID cannot be empty ");
        return;
    }
    if (textBox3.Text.Trim() == "")
    {
        MessageBox.Show("phone number cannot be empty ");
    }
}
```

Error List

0 Errors 2 Warnings 0 Messages

Description

⚠ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

Solution Explorer

Properties

Toolbox

Task List

Output

File List

Search Solution

Quick Launch (Ctrl+Q)

Ready

Type here to search

Ln 1 Col 1 Ch 1 INS

File Line Col. Project

Program.cs 12 27 ApartmentRentalSystem

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ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

Rental.cs

```
Rental_Table rental = new Rental_Table();
rental.Name = textBox1.Text.Trim();
rental.Username = textBox6.Text.Trim();
rental.Password = textBox5.Text.Trim();
rental.NID = Convert.ToInt32(textBox2.Text.Trim());
rental.PhoneNum = Convert.ToInt32(textBox3.Text.Trim());
rental.Gender = comboBox2.SelectedItem;
rental.Email = textBox4.Text.Trim();

int spending;
if (radioButton1.Checked)
{
    spending = 14999;
    rental.Spending_Limit = spending;
}
if (radioButton2.Checked)
{
    spending = 34999;
    rental.Spending_Limit = spending;
}
if (radioButton3.Checked)
{
    spending = 35000;
    rental.Spending_Limit = spending;
}
```

Error List

0 Errors 2 Warnings 0 Messages

Description

⚠ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

Solution Explorer

Properties

Toolbox

Task List

Output

File List

Search Solution

Quick Launch (Ctrl+Q)

Ready

Type here to search

Ln 1 Col 1 Ch 1 INS

File Line Col. Project

Program.cs 12 27 ApartmentRentalSystem

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ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

LessorReq.cs

```
public partial class LessorReq : Form
{
    public LessorReq()
    {
        InitializeComponent();
    }
    private ApartmentRentalSystemDBEntities2 DB = new ApartmentRentalSystemDBEntities2();

    private void LessorReq_Load(object sender, EventArgs e)
    {

        var Apartment =
            from apartment in DB.RequestRent_Table
            where apartment.Apartment_Table.StatusApartment == 2
            select new { apartment.Apartment_Table.ApartmenID, apartment.Rental_Table.RentalID,
                apartment.ReID,
                apartment.Apartmen_Table.Address,
                apartment.Apartmen_Table.Catogries,
                apartment.Apartmen_Table.Describe,
                apartment.Apartmen_Table.Price,
                apartment.Rental_Table.Name
            };
        dataGridView1.DataSource = Apartment.ToList();
        dataGridView1.Columns[0].Visible = false;
        dataGridView1.Columns[1].Visible = false;
        dataGridView1.Columns[2].Visible = false;
    }
}
```

100 %

Error List

Description

⚠ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

Ready

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File Line Col. Project

Program.cs 12 27 ApartmentRentalSystem

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ApartmentRentalSystem - Microsoft Visual Studio

FILE EDIT VIEW PROJECT BUILD DEBUG TEAM TOOLS TEST ARCHITECTURE ANALYZE WINDOW HELP

LessorReq.cs

```
private void button1_Click(object sender, EventArgs e)
{
    if (dataGridView1.RowCount == 0)
    {
        MessageBox.Show("there is no available Apartment");
        return;
    }
    int ApartmentID = Convert.ToInt32(dataGridView1.Rows[dataGridView1.SelectedCells[0].RowIndex].Cells[0].Value.ToString());
    var reqapa = (from ru in DB.Apartmen_Table
                  where ru.ApartmenID == ApartmentID
                  select ru).FirstOrDefault();

    reqapa.StatusApartment = 3;
    int RenatalID = Convert.ToInt32(dataGridView1.Rows[dataGridView1.SelectedCells[0].RowIndex].Cells[1].Value.ToString());
    int RequestID = Convert.ToInt32(dataGridView1.Rows[dataGridView1.SelectedCells[0].RowIndex].Cells[2].Value.ToString());
    var req = (from ru in DB.RequestRent_Table
                  where ru.ReID == RequestID
                  select ru).FirstOrDefault();
    DB.RequestRent_Table.Remove(req);
    Rent_apartment_Table rat = new Rent_apartment_Table();
    rat.Apa_id = ApartmentID;
    rat.Re_id = RenatalID;
    DB.Rent_apartment_Table.Add(rat);
    DB.SaveChanges();
    MessageBox.Show("accept successfully");
    Close();
}
```

100 %

Error List

Description

⚠ 1 Field 'ApartmentRentalSystem.Program.lesid' is never assigned to, and will always have its default value 0

Ready

Type here to search

File Line Col. Project

Program.cs 12 27 ApartmentRentalSystem

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5:18 AM 11/18/2021

The screenshot shows the Microsoft Visual Studio interface for the 'ApartmentRentalSystem' project. The main window displays the 'LessorReq.cs' file with C# code. The code handles a button click event, specifically 'button2_Click'. It checks if the DataGridView has any rows. If not, it shows a message box and returns. Otherwise, it retrieves an apartment record by its ID from the database, updates its status to 1, and then finds a corresponding request record in the 'RequestRent_Table'. It removes this request and saves changes to the database. Finally, it shows a success message and closes the application.

```
private void button2_Click(object sender, EventArgs e)
{
    if (dataGridView1.RowCount == 0)
    {
        MessageBox.Show("there is no available Apartment");
        return;
    }
    int ApartmentID = Convert.ToInt32(dataGridView1.Rows[dataGridView1.SelectedCells[0].RowIndex].Cells[0].Value.ToString());
    var reqapa = (from ru in DB.Apartment_Table
                 where ru.ApartmentID == ApartmentID
                 select ru).FirstOrDefault();

    reqapa.StatusApartment = 1;
    int RequestID = Convert.ToInt32(dataGridView1.Rows[dataGridView1.SelectedCells[0].RowIndex].Cells[2].Value.ToString());
    var req = (from ru in DB.RequestRent_Table
              where ru.ReID == RequestID
              select ru).FirstOrDefault();
    DB.RequestRent_Table.Remove(req);

    DB.SaveChanges();
    MessageBox.Show("decline successfully");
    Close();
}
```

The Solution Explorer on the right shows the project structure with files like 'Apartment.cs', 'AddApartment.cs', 'App.conf', 'Form1.cs', 'LessorReq.cs', 'Login.cs', 'Mainless.cs', 'Mainrent.cs', 'Program.cs', 'RApartment.cs', 'Rental.cs', 'rentalORI.cs', 'Update.cs', and 'ViewApartment.cs'.