

2021

PRG521 Summative

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Question 3:



Question 3

25 pts

Create the graphical user interfaces as shown below. Provide appropriate names for all the controls. You will have to provide screenshots and the full program showcasing how the program function.

Address Management

Address Number:

Street Name:

Street Type:

City:

Create Read Update Delete Exit

Figure 3: Form Address

Customer Management

Customer Name:

Customer Address:

Customer City:

Create Read Update Delete Exit

Figure 4: Form Customer

Freight Management

Freight Number:

Freight Address:

Freight City:

Freight State:

Create Read Update Delete Exit

Figure 5: Form Freight

Freight Driver

Address Information:

Full Name:

License Type:

Gender: ☐ Male ☐ Female

Create Read Update Delete Exit

Figure 6: Form Driver

Freight Status

Address Information:

Driver ID:

Pickup Date:

Delivery Date:

Create Read Update Delete Exit

Figure 7: Form Status

Marks allocation 5 Marks per design (5 Marks X5=25)

Screen shots:



The screenshot shows the "FrmAddresses" application form. The window title is "FrmAddresses". The form is titled "Adress Information:" and contains the following fields:

Complex Number:	<input type="text"/>	Province:	<input type="text"/>
Complex Name:	<input type="text"/>	Country:	<input type="text"/>
Street:	<input type="text"/>	Postal Code:	<input type="text"/>
Suburb:	<input type="text"/>		
City:	<input type="text"/>		

Below the form fields are five buttons: **Create**, **Read**, **Update**, **Delete**, and **Exit**. A large empty rectangular area is located below the buttons.

Customer Management

Customer:

Fullname:

Contact Number:

Email:

Create Read Update Delete Exit

Freight

Freight Information:

Customer Number: Status:

Height: Origin Address:

Lenght: Date:

Weight:

Destenation:

Create Read Update Delete Exit

Driver Information

Driver Information:

Full Name:

License Type:

Owner: ☐ Yes ☐ No

Create Read Update Delete Exit

Status

Status Information:

Status ID: Driver ID:

Picked up: Delivered:

Create Read Update Delete Exit

Results:

Address:

The screenshots show the development of a C# application in Visual Studio. The left pane displays the code for `FrmAddresses.cs`, which includes a `public partial class FrmAddresses : Form` and a `private void btnCreate_Click(object sender, EventArgs e)` method. The right pane shows the application's UI, which includes a form for entering address details and a table displaying a list of addresses.

The first screenshot shows the initial state of the application. The `btnCreate_Click` method is being executed, and a `MessageBox.Show("Details Saved Successfully")` dialog is displayed. The table in the UI shows the following data:

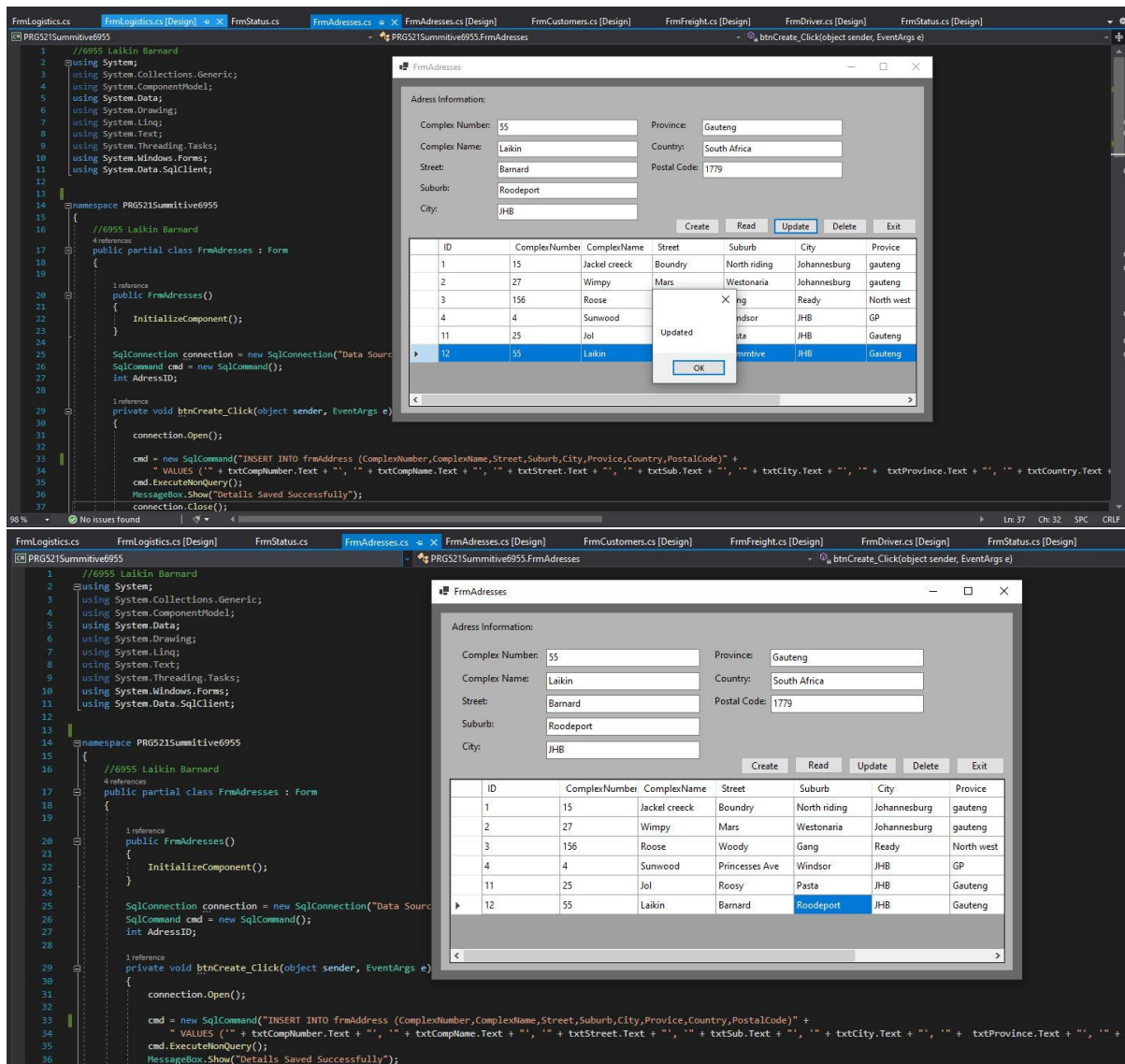
ID	ComplexNumber	ComplexName	Street	Suburb	City	Province
1	15	Jackel creek	Boudry	North riding	Johannesburg	gauteng
2	27	Wimpy	Mars	Westonaria	Johannesburg	gauteng
3	156	Roose	Woody	Gang	Ready	North west
4	4	Sunwood	Princesses Ave	Windsor	JHB	GP
11	25	Jol	Roosy	Pasta	JHB	Gauteng

The second screenshot shows the application after the `Read` button has been clicked. The `btnCreate_Click` method is still being executed, and the `MessageBox.Show("Details Saved Successfully")` dialog is still displayed. The table in the UI shows the following data:

ID	ComplexNumber	ComplexName	Street	Suburb	City	Province
1	15	Jackel creek	Boudry	North riding	Johannesburg	gauteng
2	27	Wimpy	Mars	Westonaria	Johannesburg	gauteng
3	156	Roose	Woody	Gang	Ready	North west
4	4	Sunwood	Princesses Ave	Windsor	JHB	GP
11	25	Jol	Roosy	Pasta	JHB	Gauteng
12	55	Laikin	Barnard	Summitive	JHB	Gauteng

The third screenshot shows the application after the `Read` button has been clicked again. The `btnCreate_Click` method is still being executed, and the `MessageBox.Show("Details Saved Successfully")` dialog is still displayed. The table in the UI shows the following data:

ID	ComplexNumber	ComplexName	Street	Suburb	City	Province
1	15	Jackel creek	Boudry	North riding	Johannesburg	gauteng
2	27	Wimpy	Mars	Westonaria	Johannesburg	gauteng
3	156	Roose	Woody	Gang	Ready	North west
4	4	Sunwood	Princesses Ave	Windsor	JHB	GP
11	25	Jol	Roosy	Pasta	JHB	Gauteng



frmLogistics.cs frmLogistics.cs [Design] frmStatus.cs **frmAddresses.cs** frmAddresses.cs [Design] frmCustomers.cs [Design] frmFreight.cs [Design] frmDriver.cs [Design] frmStatus.cs [Design]

PRG521Summative6955 PRG521Summative6955.FrmAddresses btnCreate_Click(object sender, EventArgs e)

```

1 //6955 Laikin Barnard
2 using System;
3 using System.Collections.Generic;
4 using System.ComponentModel;
5 using System.Data;
6 using System.Drawing;
7 using System.Linq;
8 using System.Text;
9 using System.Threading.Tasks;
10 using System.Windows.Forms;
11 using System.Data.SqlClient;
12
13 namespace PRG521Summative6955
14 {
15     //6955 Laikin Barnard
16     public partial class FrmAddresses : Form
17     {
18         1 reference
19         public FrmAddresses()
20         {
21             InitializeComponent();
22         }
23
24         SqlConnection connection = new SqlConnection("Data Source=
25         SqlCommand cmd = new SqlCommand();
26         int AddressID;
27
28         1 reference
29         private void btnCreate_Click(object sender, EventArgs e)
30         {
31             connection.Open();
32
33             cmd = new SqlCommand("INSERT INTO frmAddress (ComplexNumber,ComplexName,Street,Suburb,City,Province,PostalCode)" +
34             " VALUES ('" + txtCompNumber.Text + "','" + txtCompName.Text + "','" + txtStreet.Text + "','" + txtSub.Text + "','" + txtCity.Text + "','" + txtProvince.Text + "','" + txtCountry.Text + "','" + txtPostalCode.Text + "')");
35             cmd.ExecuteNonQuery();
36             MessageBox.Show("Details Saved Successfully");
37             connection.Close();
38         }
39     }
40 }

```

Address Information:

Complex Number: 55 Province: Gauteng

Complex Name: Laikin Country: South Africa

Street: Barnard Postal Code: 1779

Suburb: Roodeport

City: JHB

Create Read Update **Delete** Exit

ID	ComplexNumber	ComplexName	Street	Suburb	City	Province
1	15	Jackel creek	Boundry	North riding	Johannesburg	gauteng
2	27	Wimpy	Mars	Westonaria	Johannesburg	gauteng
3	156	Roose	Gang	Ready	North west	
4	4	Sunwood	Princesses Ave	Windsor	JHB	GP
11	25	Jol	Pasta	JHB	Gauteng	
12	55	Laikin	Roodeport	JHB	Gauteng	

Deleted OK

frmLogistics.cs frmLogistics.cs [Design] frmStatus.cs **frmAddresses.cs** frmAddresses.cs [Design] frmCustomers.cs [Design] frmFreight.cs [Design] frmDriver.cs [Design] frmStatus.cs [Design]

PRG521Summative6955 PRG521Summative6955.FrmAddresses btnCreate_Click(object sender, EventArgs e)

```

1 //6955 Laikin Barnard
2 using System;
3 using System.Collections.Generic;
4 using System.ComponentModel;
5 using System.Data;
6 using System.Drawing;
7 using System.Linq;
8 using System.Text;
9 using System.Threading.Tasks;
10 using System.Windows.Forms;
11 using System.Data.SqlClient;
12
13 namespace PRG521Summative6955
14 {
15     //6955 Laikin Barnard
16     public partial class FrmAddresses : Form
17     {
18         1 reference
19         public FrmAddresses()
20         {
21             InitializeComponent();
22         }
23
24         SqlConnection connection = new SqlConnection("Data Source=
25         SqlCommand cmd = new SqlCommand();
26         int AddressID;
27
28         1 reference
29         private void btnCreate_Click(object sender, EventArgs e)
30         {
31             connection.Open();
32
33             cmd = new SqlCommand("INSERT INTO frmAddress (ComplexNumber,ComplexName,Street,Suburb,City,Province,PostalCode)" +
34             " VALUES ('" + txtCompNumber.Text + "','" + txtCompName.Text + "','" + txtStreet.Text + "','" + txtSub.Text + "','" + txtCity.Text + "','" + txtProvince.Text + "','" + txtCountry.Text + "','" + txtPostalCode.Text + "')");
35             cmd.ExecuteNonQuery();
36             MessageBox.Show("Details Saved Successfully");
37             connection.Close();
38         }
39     }
40 }

```

Address Information:

Complex Number: 55 Province: Gauteng

Complex Name: Laikin Country: South Africa

Street: Barnard Postal Code: 1779

Suburb: Roodeport

City: JHB

Create Read Update **Delete** Exit

ID	ComplexNumber	ComplexName	Street	Suburb	City	Province
1	15	Jackel creek	Boundry	North riding	Johannesburg	gauteng
2	27	Wimpy	Mars	Westonaria	Johannesburg	gauteng
3	156	Roose	Woody	Gang	Ready	North west
4	4	Sunwood	Princesses Ave	Windsor	JHB	GP
11	25	Jol	Roosy	Pasta	JHB	Gauteng

Customer:

Customer Management

Customer:

Fullname: Taylor R

Contact Number: 0985462587

Email: TaylorRule@gmail.com

Create Read Update Delete Exit

Details Saved Successfully

OK

```
1 //
2 US
3 US
4 US
5 US
6 US
7 US
8 US
9 US
10 US
11 US
12
13
14
15 na
16 {
17
18
19
20
21
22
23
24
25
26 SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAM5H7\\SQL
27 SqlCommand cmd = new SqlCommand();
28
29 int CustomerID;
```

Customer Management

Customer:

Fullname:

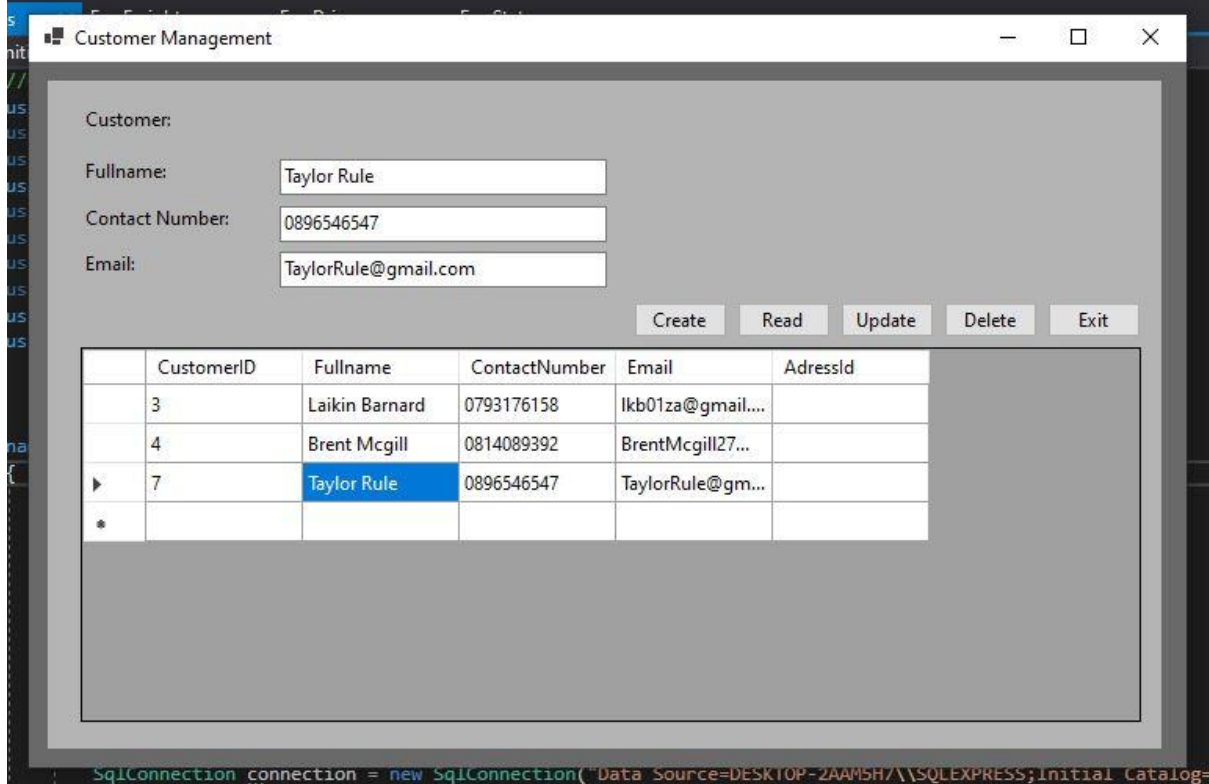
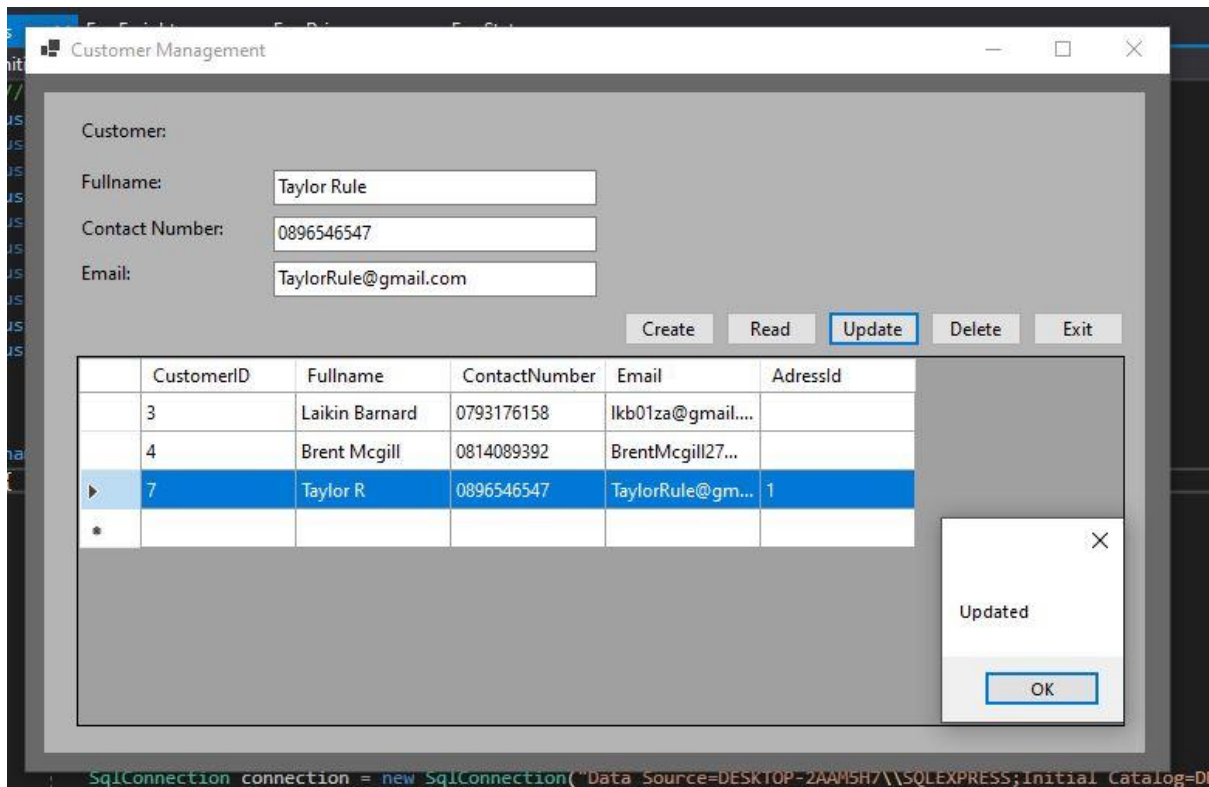
Contact Number:

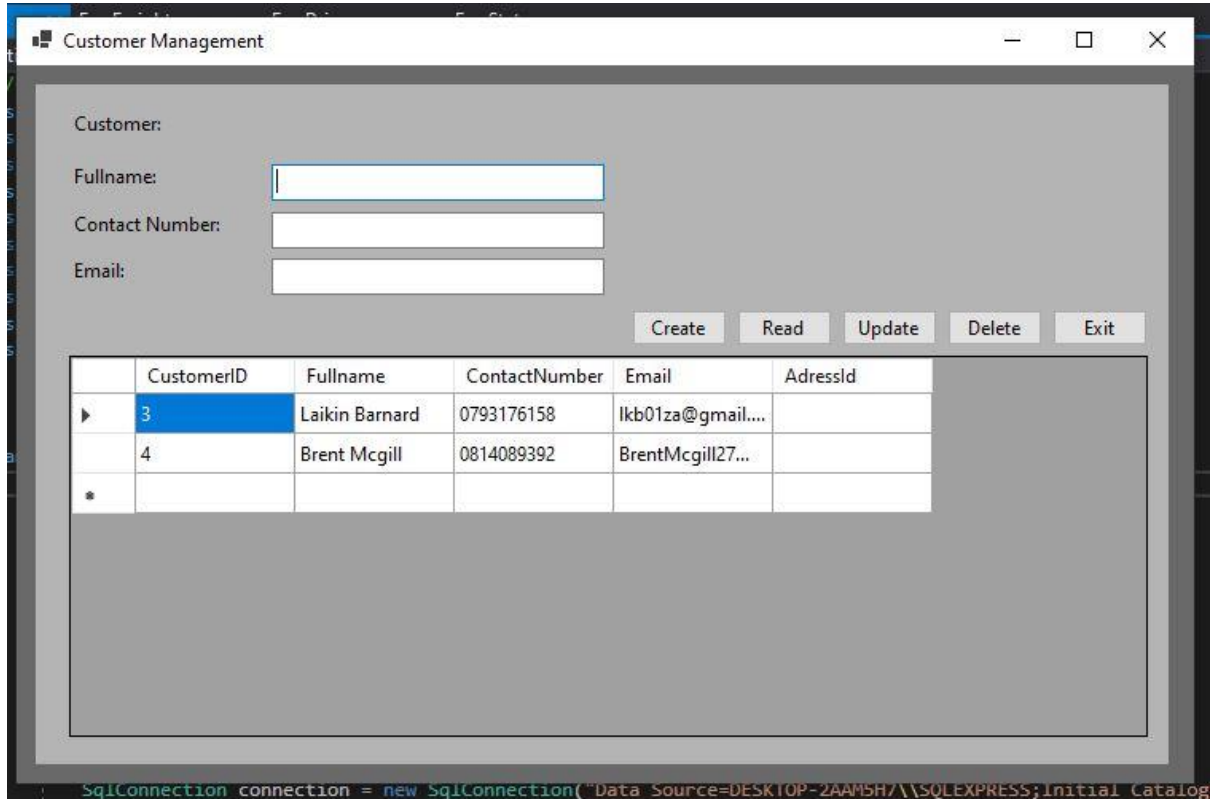
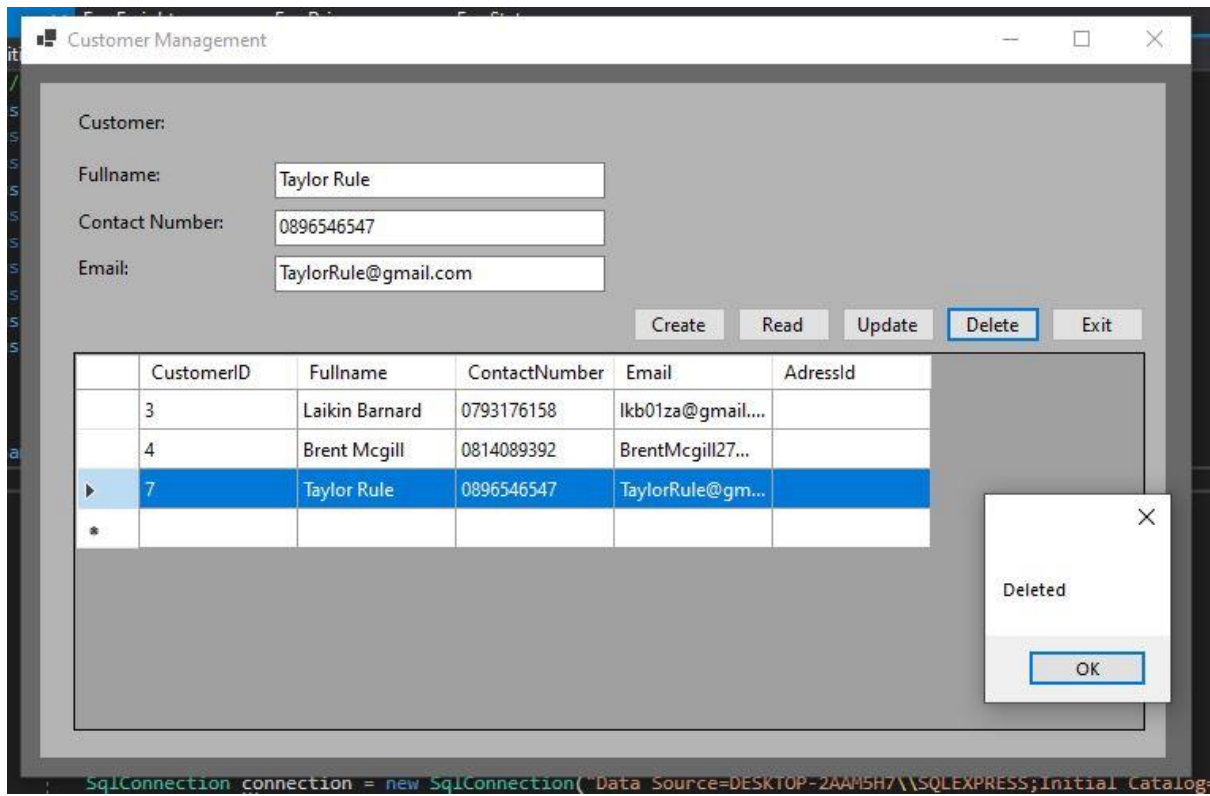
Email:

Create Read Update Delete Exit

	CustomerID	Fullname	ContactNumber	Email	AdressId
▶	3	Laikin Barnard	0793176158	lkb01za@gmail....	
	4	Brent McGill	0814089392	BrentMcgill27...	
	6	Taylor R	0985462587	TaylorRule@gm...	1
*					

```
SqlConnection connection = new SqlConnection("Data Source=DESKTOP-2AAM5H7\\SQL EXPRESS\\SQLSERVER_Catalog
```





Freight:

Freight

Frreight Information:

Customer Number: 0795012456 Status: 8

Height: 525 Origin Address: Westonaria

Lenght: 102 Date: Monday , 10 May 2021

Weight: 600

Destenation: Roodepoort

Create Read Update Delete Exit

Address Details Saved Successfully

OK

Freight

Frreight Information:

Customer Numbers: 2 Status: 8

Height: 525 Origin Address: Westonaria

Lenght: 102 Date: Monday , 10 May 2021

Weight: 600

Destenation: Roodepoort

Create Read Update Delete Exit

	ID	CustomerID	Height	Weight	Lenght	DestanationAdres	OrginAdressID
	1	2	200	500	250	Westonaria	JHB
▶	3	2	525	600	102	Roodepoort	Westonaria
*							

Freight

Frreight Information:

Customer Number: Status:

Height: Origin Address:

Lenght: Date:

Weight:

Destenation:

Create Read **Update** Delete Exit

ID	CustomerID	Height	Weight	Lenght	DestanationAdre	OrginAdressID
1		200	500	250	Westonaria	JHB
3		525	600	102	Roodepoort	Westonaria
*						

Updated

OK

Freight

Frreight Information:

Customer Number: Status:

Height: Origin Address:

Lenght: Date:

Weight:

Destenation:

Create Read **Update** Delete Exit

CustomerID	Height	Weight	Lenght	DestanationAdre	OrginAdressID	StatusID
2	200	500	250	Westonaria	JHB	1
2	525	600	450	Roodepoort	North Riding	8
*						

Freight

Frreight Information:

Customer Number: 2 Status: 8

Height: 525 Origin Address: North Riding

Lenght: 450 Date: Monday , 10 May 2021

Weight: 600

Destenation: Roodepoort

Create Read Update Delete Exit

Deleted

OK

ID	CustomerID	Height	Weight	Lenght	DestanationAdre	OrginAdressID
1		200	500	250	Westonaria	JHB
3		525	600	450	Roodepoort	North Riding
*						

Freight

Frreight Information:

Customer Number: Status:

Height: Origin Address:

Lenght: Date: Monday , 10 May 2021

Weight:

Destenation:

Create Read Update Delete Exit

ID	CustomerID	Height	Weight	Lenght	DestanationAdre	OrginAdressID
1	2	200	500	250	Westonaria	JHB
*						

Driver:

Driver Information

Driver Information:

Full Name:

License Type:

Owner: ☐ Yes ☒ No

Create Read Update Delete Exit

	DriverID	FullName	LicenseType
	1	Danie Barnard	C Buses and
▶	5	Lisa M	EB Articulate
	3	Taylor Rule	B Vehicles
*			

Driver Information

Driver Information:

Full Name:

License Type:

Owner: ☒ Yes ☐ No

Create Read Update Delete Exit

	Name	LicenseType	Owner
	e Barnard	C Buses and go...	No
▶	M	EB Articulated v...	No
	r Rule	B Vehicles	Yes
*			

Updated

OK

Driver Information

Driver Information:

Full Name:

License Type:

Owner: ☒ Yes ☐ No

Create Read Update Delete Exit

	Name	LicenseType	Owner
	e Barnard	C Buses and go...	No
▶	M	B Vehicles	Yes
	r Rule	B Vehicles	Yes
*			

Driver Information

Driver Information:

Full Name:

License Type:

Owner: ☒ Yes ☐ No

Create Read Update Delete Exit

	Name	LicenseType	Owner
	e Barnard	C Buses and go...	No
▶	M	B Vehicles	Yes
	r Rule	B Vehicles	Yes
*			

Deleted

OK

Driver Information

Driver Information:

Full Name:

License Type:

Owner:

☒ Yes

☐ No

Create

Read

Update

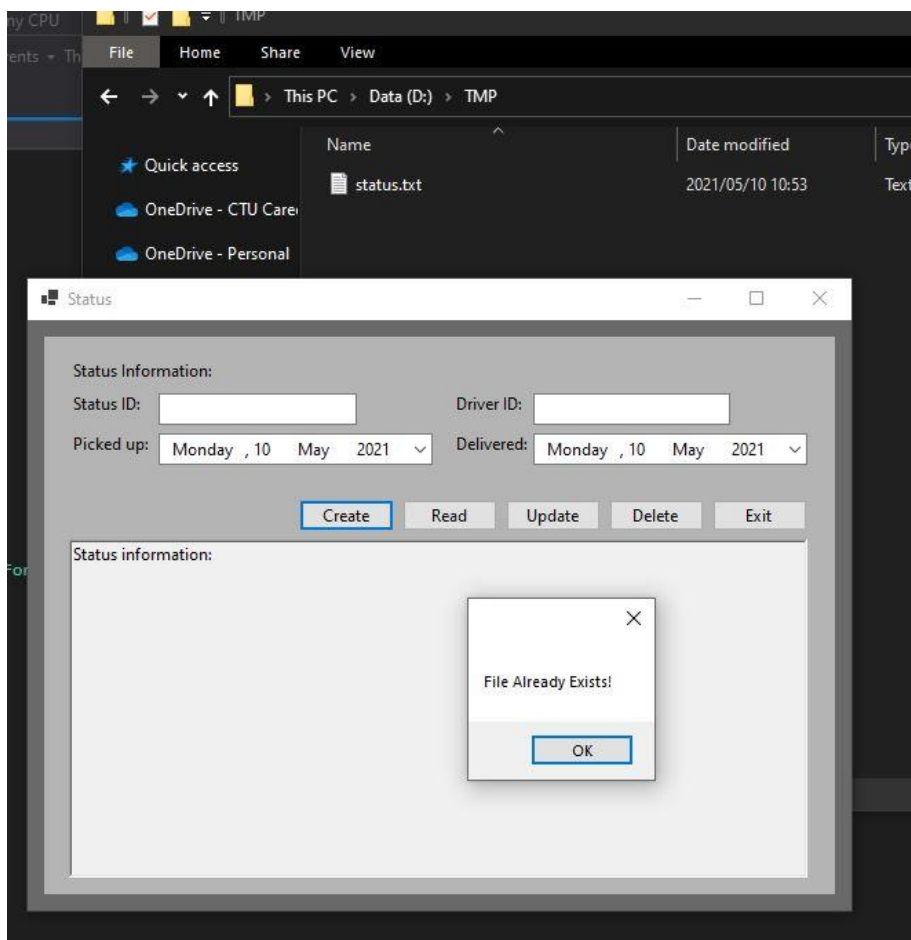
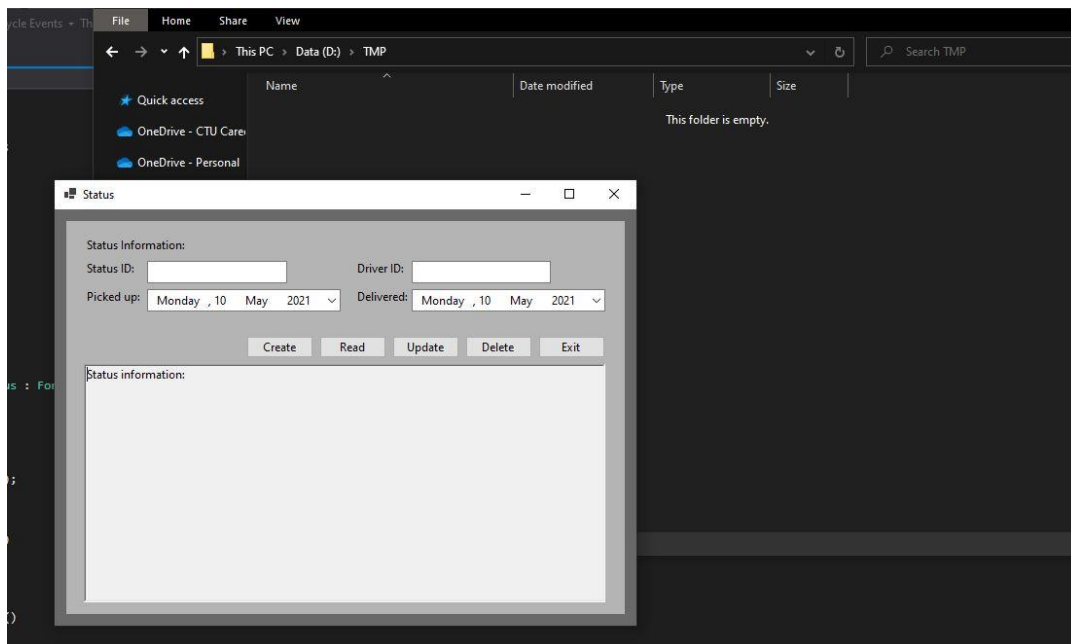
Delete

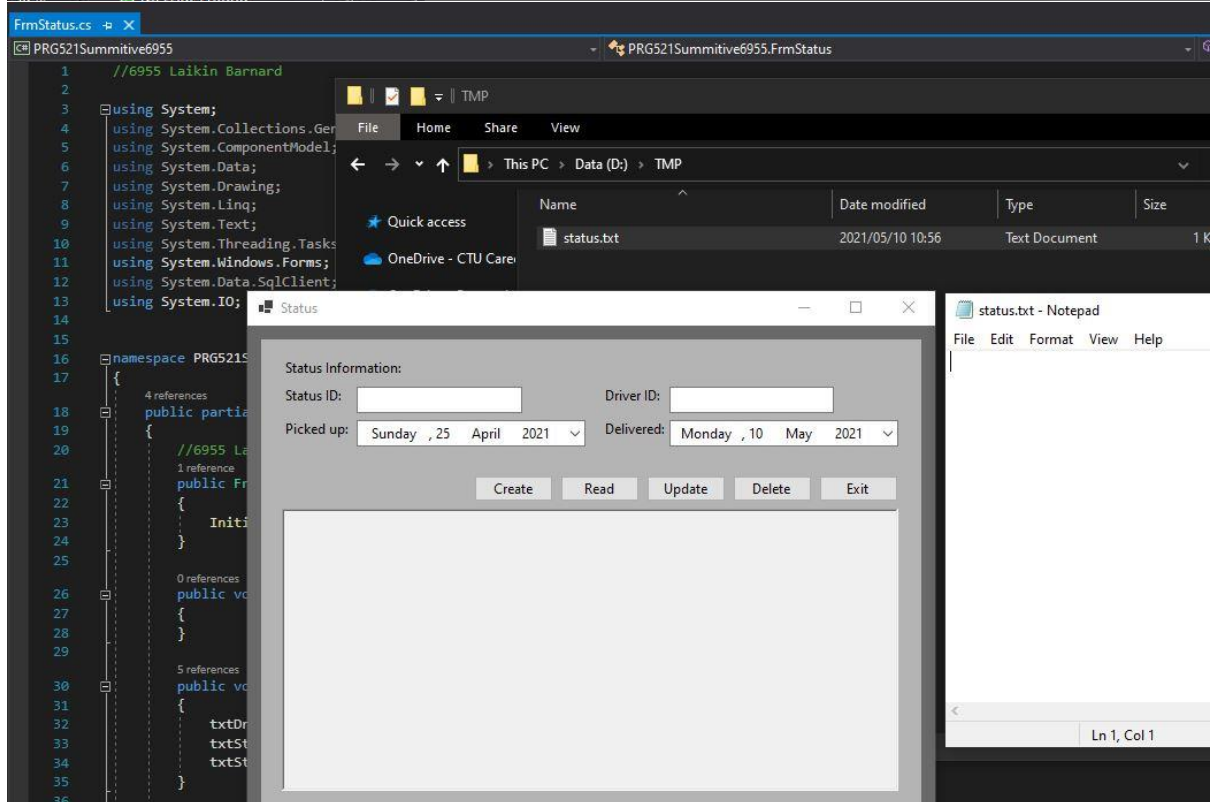
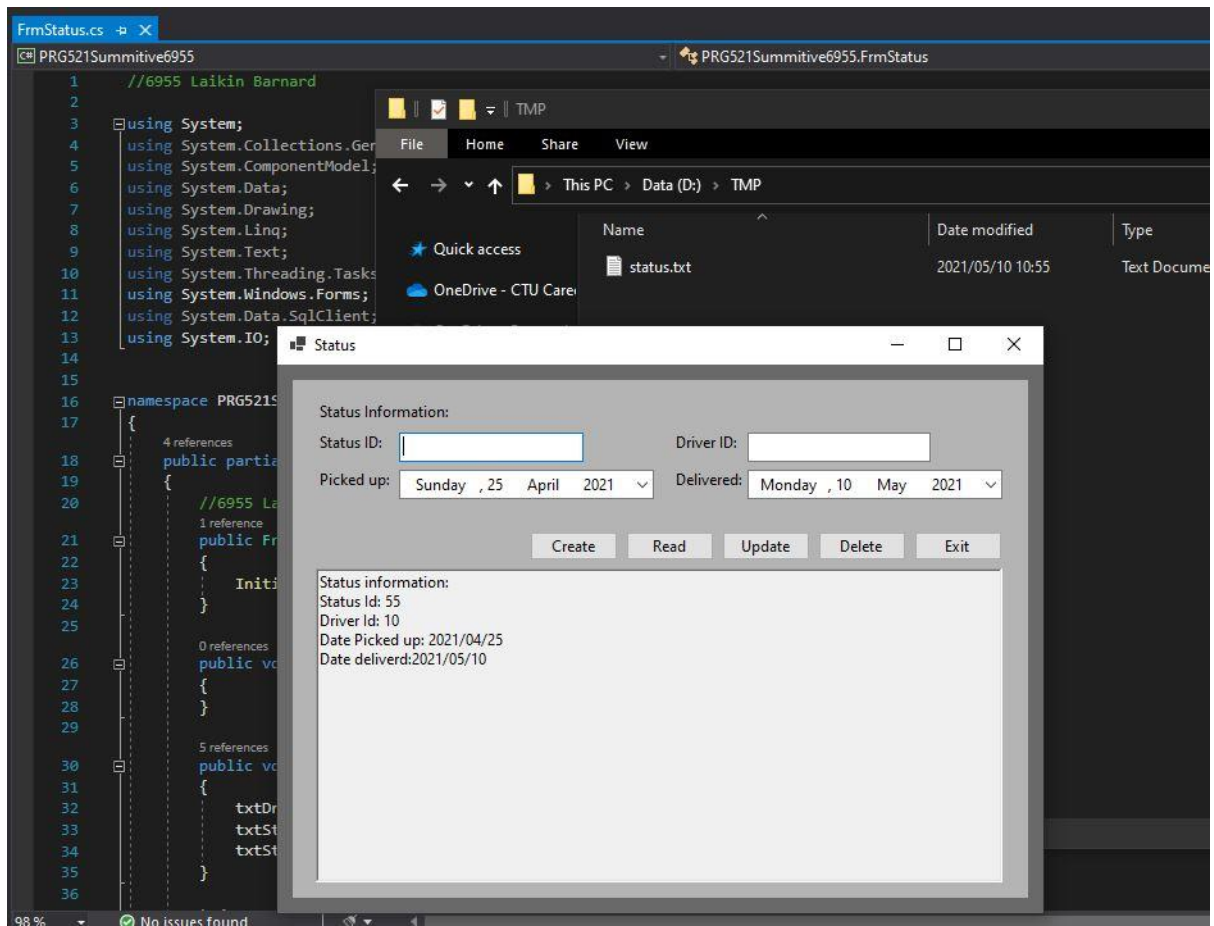
Exit

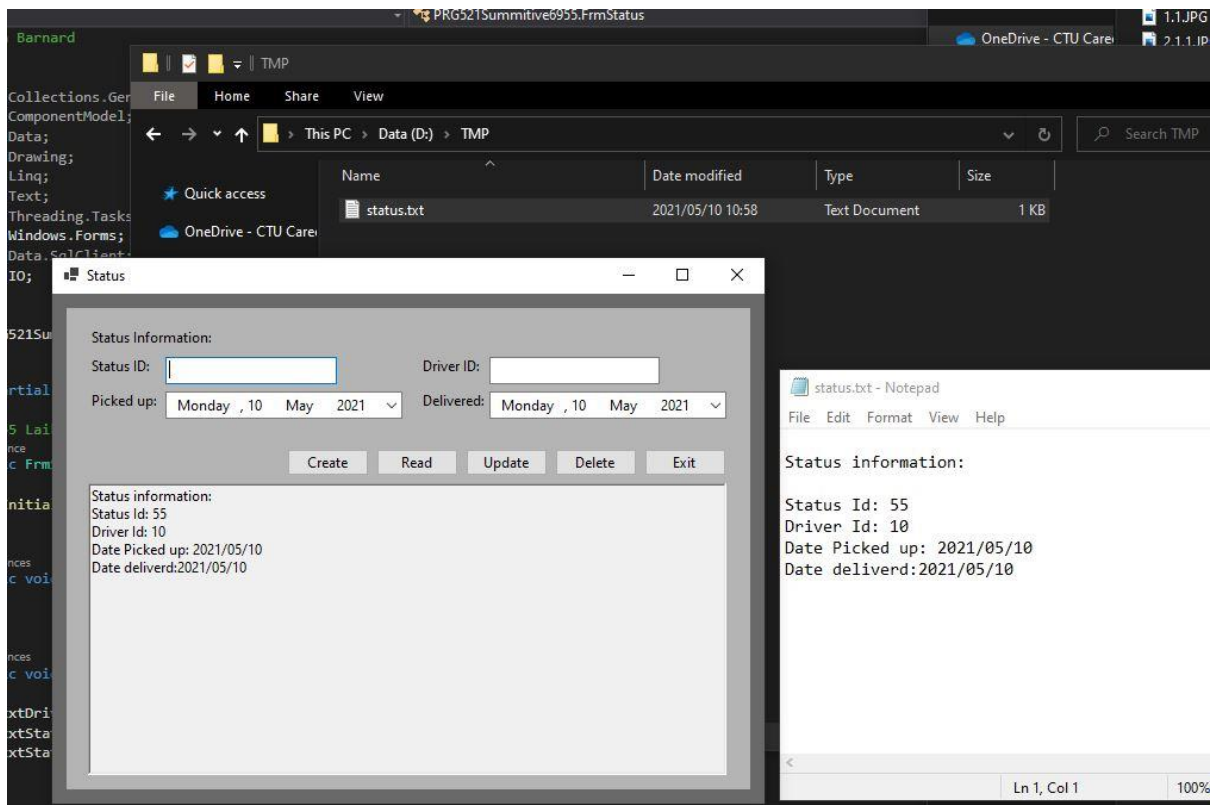
	DriverID	FullName	LicenseType
▶	1	Danie Barnard	C Buses and
	3	Taylor Rule	B Vehicles
*			

< >

Status:







The End!