

EXIM

Export Import Goods

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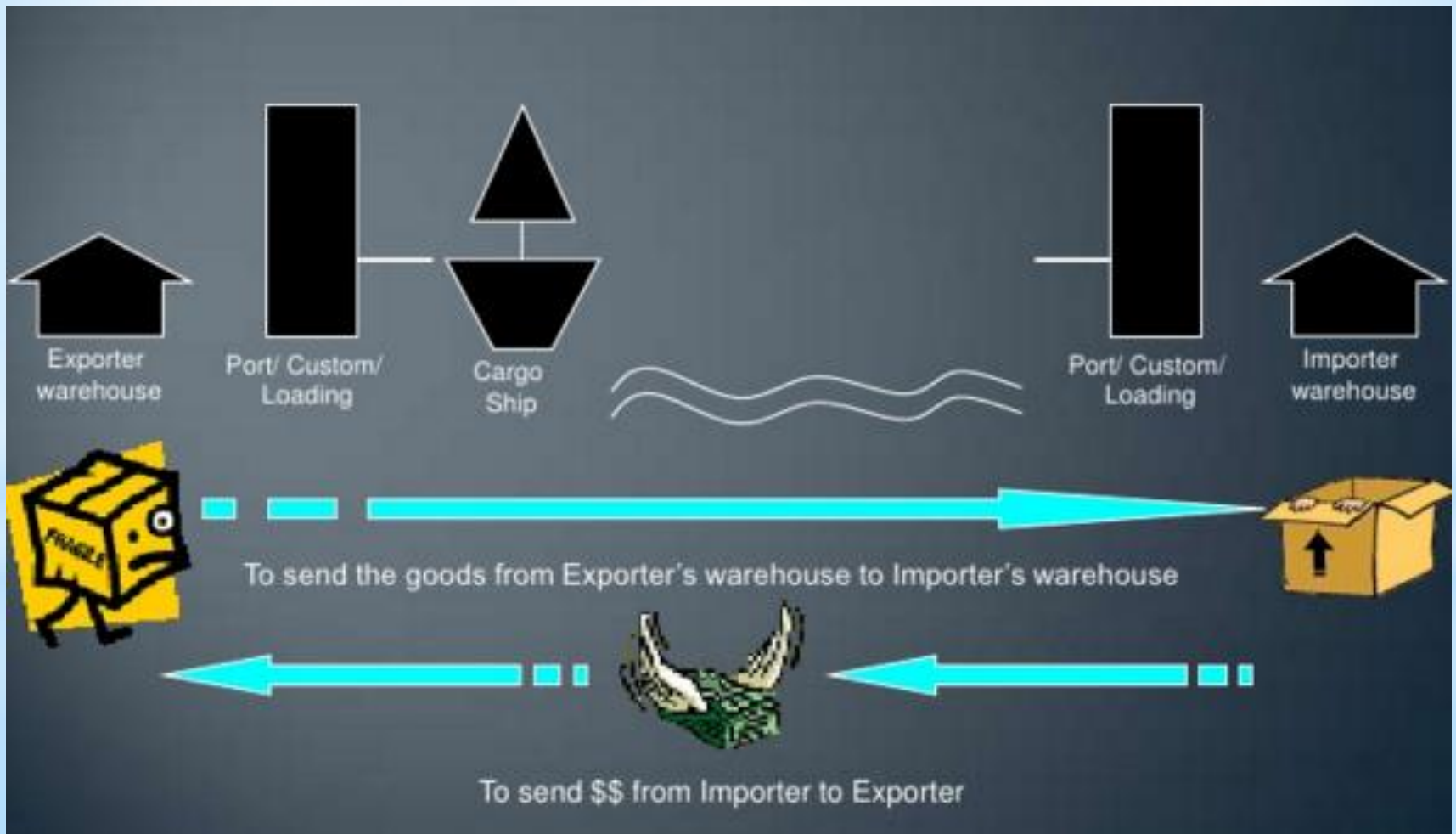
Goal of EXIM

- *Calculate taxes for product which can export to country.*
- *Displaying list of products.*
- *Displaying the shipping details.*
- *Adding new customer details and product Details.*
- *Checking the status of shipment.*
- *User can print the invoice.*
- *Saving the items which are export/import*

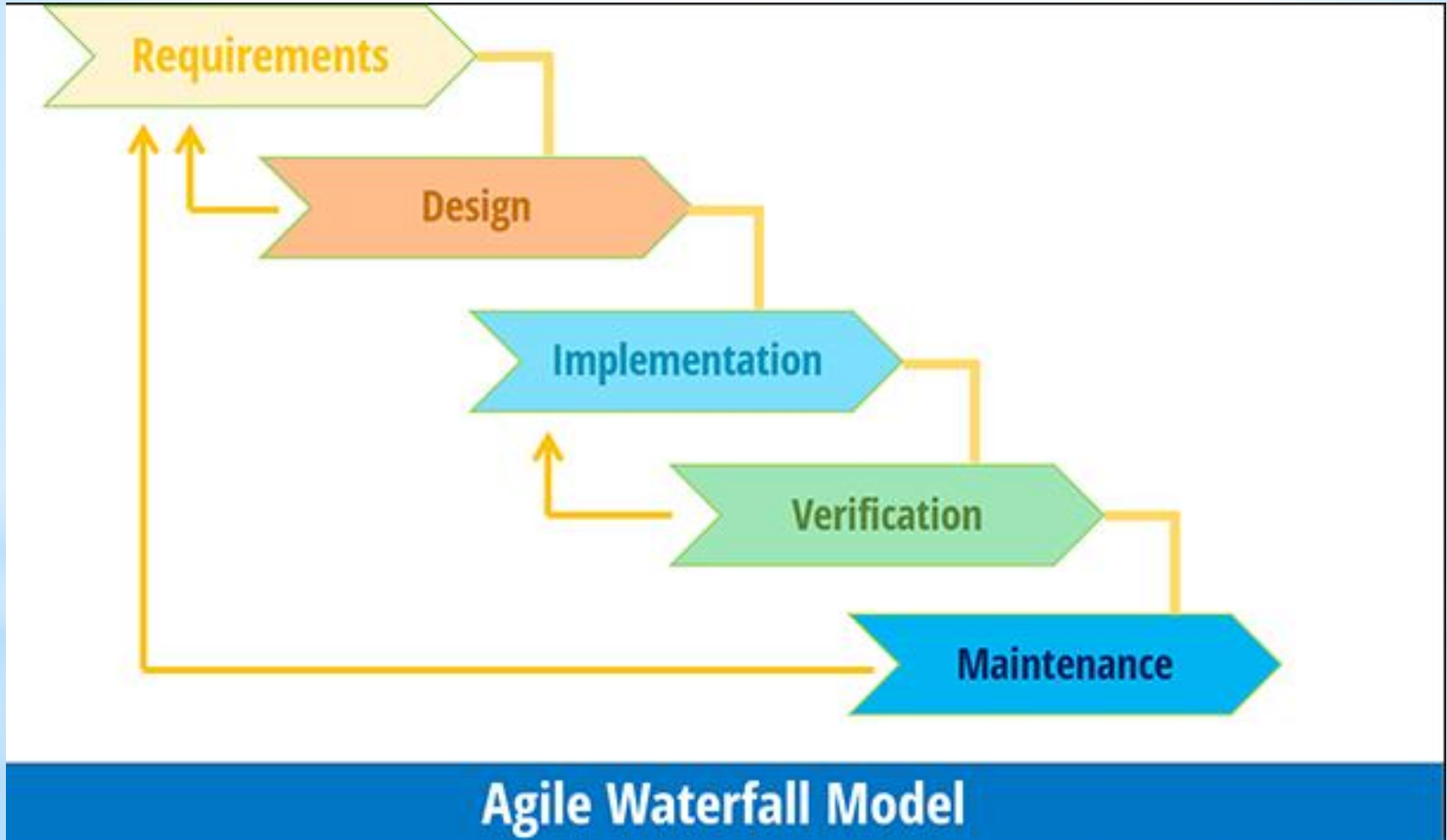
Key Takeaways

- Export/Import Trade simplified
- SDLC – Agile Model
- Use Case Diagram
- Technology
- Challenges in EXIM
- Screens of EXIM
- Future Enhancement in EXIM

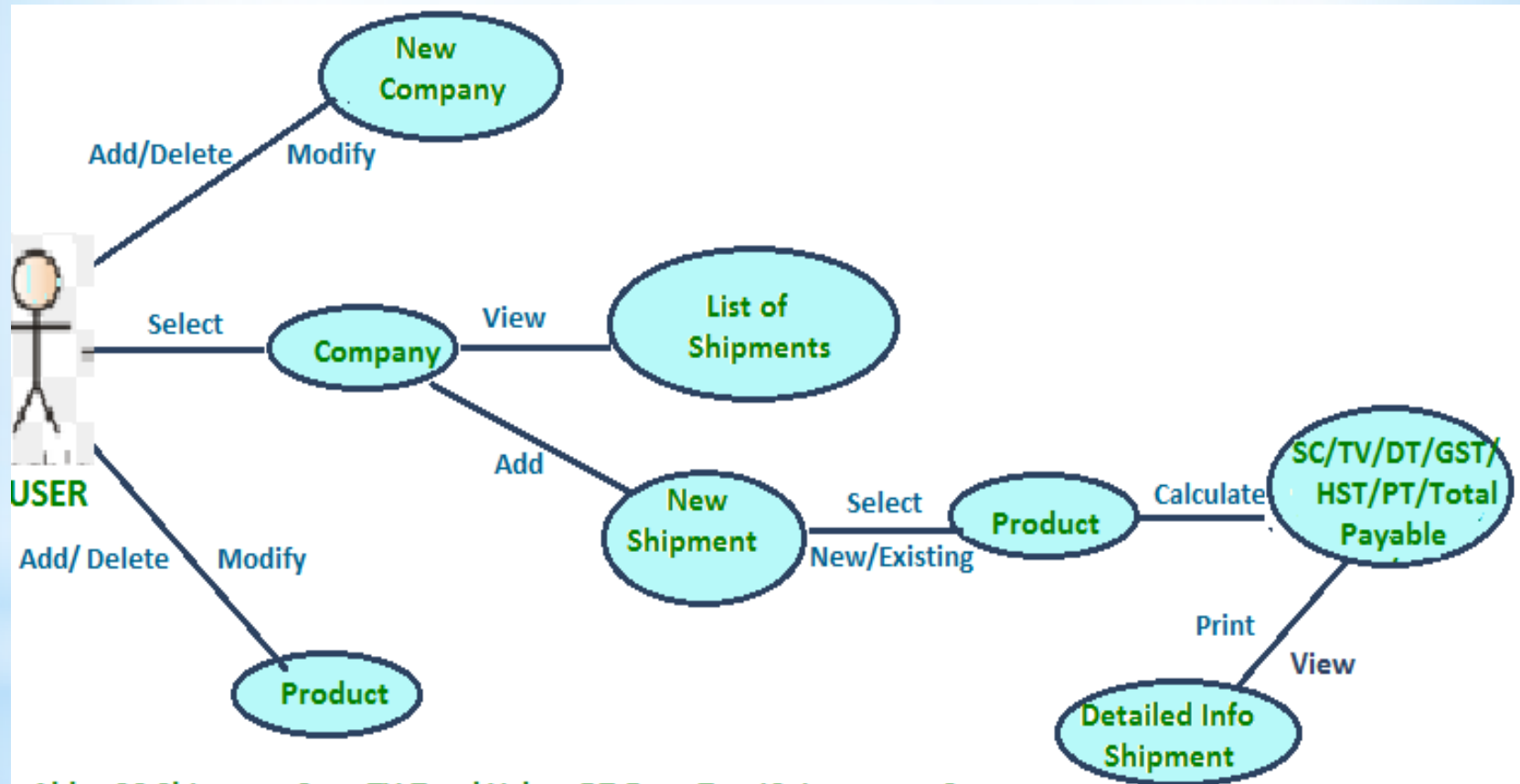
Export/Import Trade simplified



SDLC – Agile Model



Use Case Diagram



Abbr: SC-Shipment Cost, TV-Total Value, DT-Duty Tax, IC- Insurance Cost
GST-Goods and Service Tax, HST-Harmonized Sales Tax, PT-Province Tax

Technology

➤ EXIM Application divided into two segments front end and back end.

➤ Front end is developed using

WPF,

C#.NET

Backend is developed using

Microsoft SQL Server.

➤ Main Tools used –

ListView, DataGrid,

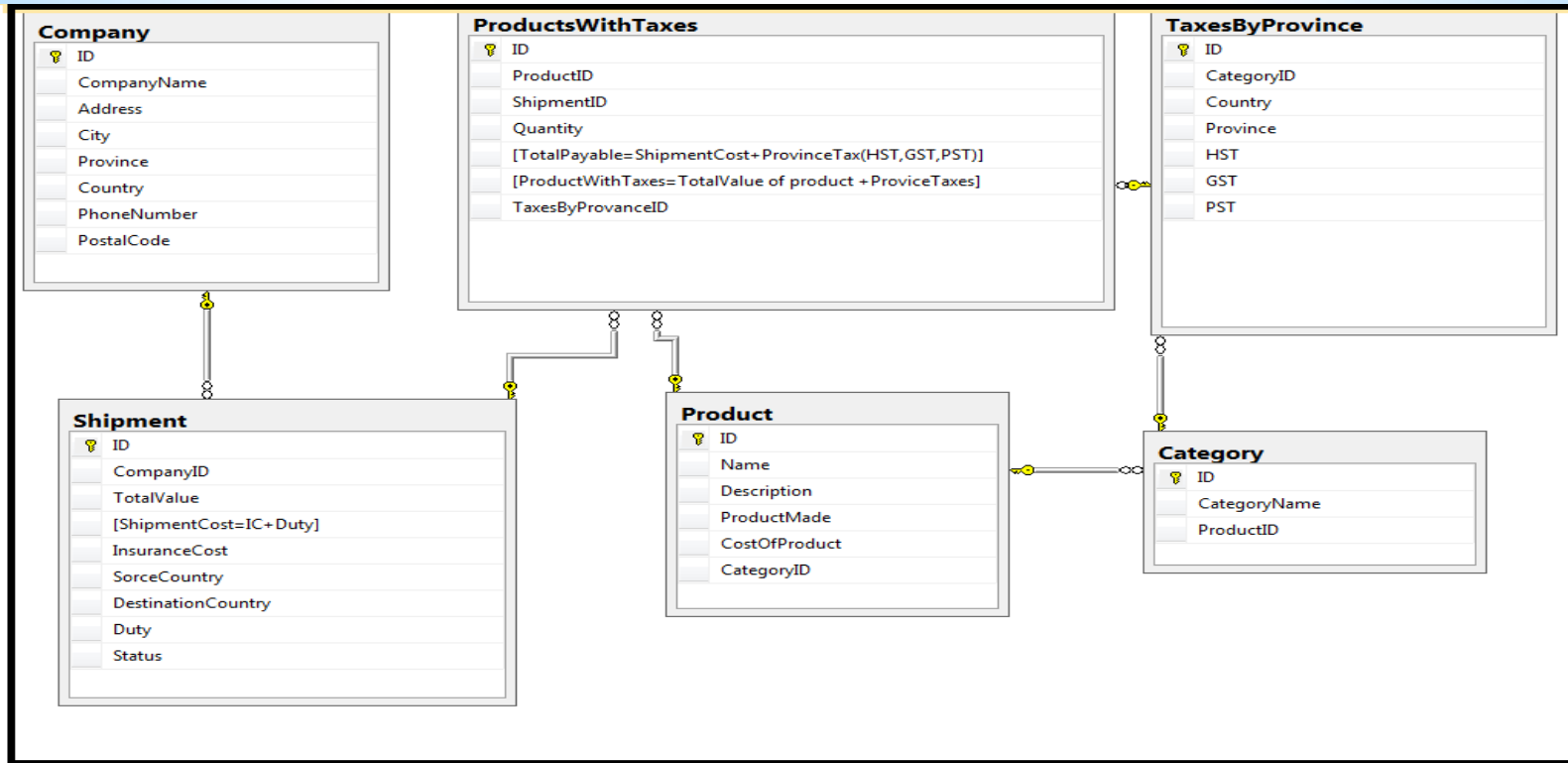
DataSet, DataTable,

Handling views using GridSpilter etc.

Technology

- Covered MVC model by creating separate classes like *ADO.cs and Database.cs*.
- Used *Enum datatype*.
- Database:-
 - Azure,*
 - Stored Procedure,*
 - Extracting records from database by joining multiple table.*

Database



Design T-SQL

```

CREATE TABLE [dbo].[Shipment] (
    [ID] INT IDENTITY (1, 1) NOT NULL,
    [CompanyID] INT NOT NULL,
    [TotalValue] MONEY NULL,
    [ShipmentCost] MONEY NULL,
    [InsuranceCost] MONEY NULL,
    [SorceCountry] VARCHAR (50) NULL,
    [DestinationCountry] VARCHAR (50) NULL,
    [Status] NVARCHAR (20) CONSTRAINT [DF_Shipment_Status] DEFAULT ('New') NULL,
    [Duty] MONEY NULL,
    CONSTRAINT [PK_Shipment] PRIMARY KEY CLUSTERED ([ID] ASC),
    CONSTRAINT [FK_Shipment_Company] FOREIGN KEY ([CompanyID]) REFERENCES [dbo].[Company] ([ID]),
    CONSTRAINT [CK_Shipment_Status] CHECK ([Status]='Denied' OR [Status]='Cleared' OR [Status]='New')
);
    
```

Challenges

- Connect with database.
- Join Multiple tables and display selected column to datagrid using same class.
- Learn about dataset and datatable.
- Affecting many tables on single event and using the last inserted ID on table and use that ID to save record on another table.
- Resolve confliction of code in bit bucket.
- Used new tools of WPF like datagrid and grid splitter.
- Used different classes to make data separate from View.
- Created new screen on short interval of time.

Useful Code

- Join Multiple tables and display selected column to datagrid using same class.

7 references | sarikabagga, 4 days ago | 1 author, 4 changes

```
public DataSet GetAllProductWithCategories()  
{  
    DataSet dsProduct = new DataSet();  
    using (SqlCommand com = new SqlCommand("sp_ProductWithCategory", con))  
    {  
        com.CommandType = CommandType.StoredProcedure;  
        SqlDataAdapter da = new SqlDataAdapter(com);  
        da.Fill(dsProduct, "Record1");  
    }  
    return dsProduct;  
}  
  
dataGridViewProduct.ItemsSource = db.GetAllProductWithCategories().Tables["Record1"].DefaultView;
```

Useful Code

- Affecting many tables on single event and using the last inserted ID on table and use that ID to save record on another table.

```
public int ShipmentID;
2 references | sarikabagga, 4 days ago | 1 author, 1 change
public void AddShipment(Model.Shipment shipment)
{
    using (SqlCommand com = new SqlCommand("INSERT INTO Shipment (CompanyId,"+
        "TotalValue, ShipmentCost, Insurancecost, Sorcecountry,"+
        "Destinationcountry, Duty,Status) " +
        "VALUES (@CompanyId, @TotalValue, @ShipmentCost, @Insurancecost,"+
        "@Sourcecountry, @Destinationcountry, @Duty,@Status); " +
        "SELECT SCOPE_IDENTITY();", con))
    {
        string Status= shipment.Status.ToString();
        com.Parameters.AddWithValue("@CompanyId", shipment.CompanyId);
        com.Parameters.AddWithValue("@TotalValue", shipment.TotalValue);
        com.Parameters.AddWithValue("@ShipmentCost", shipment.ShipmentCost);
        com.Parameters.AddWithValue("@Insurancecost", shipment.Insurancecost);
        com.Parameters.AddWithValue("@Sourcecountry", shipment.Sourcecountry);
        com.Parameters.AddWithValue("@Destinationcountry", shipment.Destinationcountry);
        com.Parameters.AddWithValue("@Duty", shipment.Duty);
        com.Parameters.AddWithValue("@Status", Status);
        ShipmentID = int.Parse(com.ExecuteScalar().ToString());
    }
}
```

Main Screen

CompShip

Company: IBM

ADD Company

List of Shipments:

CompanyID	CompanyName	TotalValue	ShipmentCost	InsuranceCost	SourceCountry
2	IBM	3000.0000	200.0000	22.0000	USA
2	IBM	2.0000	0.1400	0.0400	Select
2	IBM	2.0000	0.1400	0.0400	Select
2	IBM	120.0000	8.4000	2.4000	India
2	IBM	120.0000	8.4000	2.4000	India
2	IBM	120.0000	8.4000	2.4000	India
2	IBM	120.0000	8.4000	2.4000	India
2	IBM	30.0000	2.1000	0.6000	India
2	IBM	30.0000	2.1000	0.6000	India
2	IBM	77.0000	5.3900	1.5400	Iran
2	IBM	154.0000	10.7800	3.0800	Canada
2	IBM	2500.0000	175.0000	50.0000	Iran
2	IBM	154.0000	10.7800	3.0800	Iran

Shipment ID

A12

Source Country:

USA

Destination Country:

Canada

Province:

Quebec

List of Product in Shipment:

Add Product

ID	Product	Description	Product Made	Quantity
7	Yogurt drink	yogurt,salt,water	Iran	2
2	Pizza	peperoni	Canada	2
1	USBdrive	usb3	Indonesia	3
8	Laptop	dell	India	7
3	HardDrive	1TB	China	8
5	Sofa	45*60	Turkey	1

Quantity:

7

+

-

ID	ProductName	CostOfproduct	Quantity	TotalValue
1	USBdrive	30.0000	1	30.0000
3	HardDrive	80.0000	7	560.0000
4	Monitor	120.0000	7	840.0000
5	Sofa	100.0000	7	700.0000
7	Yogurt drink	2.0000	7	14.0000
5	Sofa	100.0000	7	700.0000

Save

Total shipment cost:

199.080000\$

Total value of all Products before Taxes :

2844.00

Add Company Screen

Add Company

Company Name

Apple

Address

Apple Campus.

Country

USA

Province

California

City

Select

Postal Code:

H3K 2N9

Phone Number

+447775547887

ID	Company	Address	City	Province	Country	Postal Code	Phone Number
1	Brillio	777, BTM	Bangalore	Karnataka	India	133001	+91921777777
2	IBM	7777, Sherbrooke East	Montreal	Quebec	Canada	H3N5M1	514-443-6248
13	Microsoft	1777, Kormangala	Bangalore	Karnataka	India	144001	+91 962000871
16	Collabera	1155 Saint Cathrine	Montreal	Quebec	Canada	H3K 2N9	+1 514-777-777
17	Bell	1233, downtown	Quebec City	Quebec	Canada	K3K1B3	436-555-1234
19	IKEA	9191 Boul Cavendish,	Montreal	Quebec	Canada	H3B1N3	1 (866) 866-453
20	Markhad Cam	65 Shabekkanati	Markhad	Khorasan	Iran	224560	+9854622594

Update

Delete

Add Product Screen

AddProduct

Name of Product

Hard Drive

Category

Computer

Description

The hard drive of your computer is where you'll store documents, images, videos, photos, and other digital content. Measured in gigabytes (GB) or terabytes (TB)

Product Made

US

Cost of Product

125

+

ID	Product	Description	Product Made	Cost Of Product	Category
1	USBdrive	usb3	Indonesia	30.0000	Computer
2	Pizza	peperoni	Canada	2.5000	Food
3	HardDrive	1TB	China	80.0000	Computer
4	Monitor	17inch	Korea	120.0000	Computer
5	Sofa	45*60	Turkey	100.0000	Furniture
6	Carpet	3m*4m	Iran	2500.0000	Furniture
7	Yogurt drink	yogurt ,sat,water	Iran	2.0000	Drinks

Update

Delete

Print Screen

Print

Shipment Preview

CompanyID	CompanyName	TotalValue	ShipmentCost	InsuranceCost	SorceCountry	DestinationCountry	Status	Duty	
2	IBM	3000.0000	200.0000	22.0000	USA	Canada	New	2.0000	
2	IBM	2.0000	0.1400	0.0400	Select	Select	New	0.1000	
2	IBM	2.0000	0.1400	0.0400	Select	Select	New	0.1000	
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000	
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000	
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000	
2	IBM	120.0000	8.4000	2.4000	India	USA	New	6.0000	
2	IBM	30.0000	2.1000	0.6000	India	USA	New	1.5000	
2	IBM	30.0000	2.1000	0.6000	India	USA	New	1.5000	
2	IBM	77.0000	5.3900	1.5400	Iran	Iran	New	3.8500	
2	IBM	154.0000	10.7800	3.0800	Canada	Iran	New	7.7000	
2	IBM	2500.0000	175.0000	50.0000	Iran	Iran	New	125.0000	
2	IBM	154.0000	10.7800	3.0800	Iran	Iran	New	7.7000	
2	IBM	154.0000	10.7800	3.0800	Iran	Iran	New	7.7000	
2	IBM	231.0000	16.1700	4.6200	Canada	Iran	New	11.5500	
2	IBM	77.0000	5.3900	1.5400	Canada	Iran	New	3.8500	
2	IBM	308.0000	21.5600	6.1600	Canada	Canada	New	15.4000	
2	IBM	154.0000	10.7800	3.0800	India	Canada	New	7.7000	
2	IBM	77.0000	5.3900	1.5400	India	Iran	New	3.8500	

Print

Future Enhancements

- Database: create table for all countries, provinces, cities.
- Search and add more functionalities inside DataGrid
- All screens using entity framework and MVVM.
- Print functionality in shipment screen.

Conclusion

- We got to know how to create windows application from scratch.
- We implemented the code and did validation.
- We have faced challenges, we overcome and learnt lot from that.
- We have planned for the future enhancements in our project.
- We learnt bit bucket tool deeply.

Any Questions?

Thank you!!