Documentation

"Western Style Ltd." Workshop Group 4

Group Members:

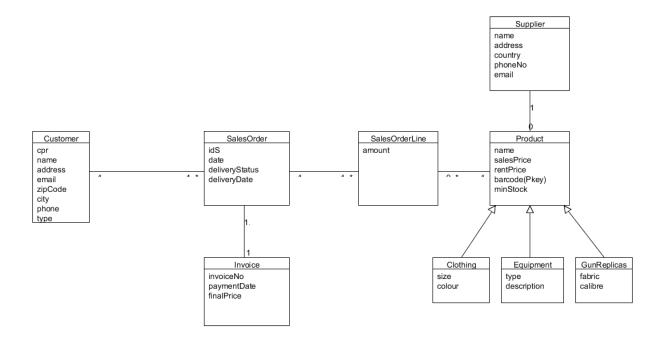
- Andrei Lucaci
- Cosmin Stan
- Cristian Moldovan
- Razvan Andrei
- Robert Ivan

Supervisors

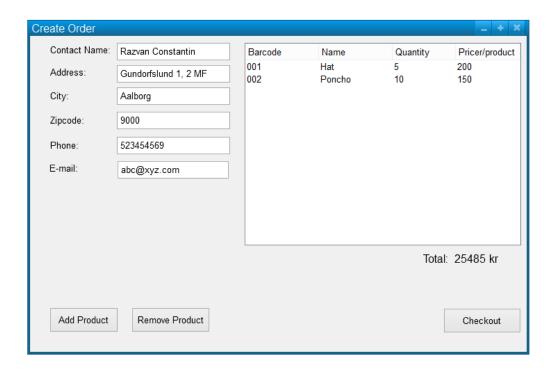
- Istvan Knoll
- Ann Francke Riisberg
- Henrik Munk Hvarregaard

Repository path: https://github.com/Swiftrow/Group4

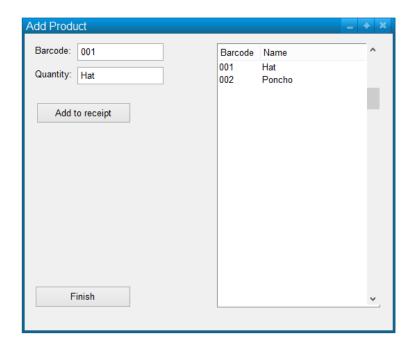
Domain Model

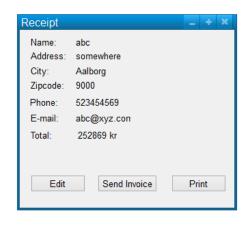


Mock-ups, design and argumentation



For designing the windows for our program, we used Pencil. The window has an easy-to-use layout, on the left information is inserted using text fields.





The SQL Script for the database creation

```
USE [dmai0914_2Sem_4]
SET ANSI_NULLS ON
SET QUOTED IDENTIFIER ON
SET ANSI_PADDING ON
GO
CREATE TABLE [dbo].[Address](
     [cpr] [numeric](10, 0) NOT NULL,
     [country] [varchar](255) NOT NULL,
     [city] [varchar](255) NOT NULL,
     [zipcode] [varchar](255) NOT NULL
) ON [PRIMARY]
SET ANSI PADDING OFF
/***** Object: Table [dbo].[Clothing] Script Date: 20-Mar-15 4:34:21 PM ******/
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
SET ANSI_PADDING ON
CREATE TABLE [dbo].[Clothing](
      [barcodeC] [numeric](10, 0) NOT NULL,
      [colour] [varchar](255) NOT NULL,
     [size] [varchar](255) NOT NULL
) ON [PRIMARY]
GO
SET ANSI_PADDING OFF
SET ANSI_NULLS ON
SET QUOTED IDENTIFIER ON
SET ANSI PADDING ON
CREATE TABLE [dbo].[Customer](
      [cpr] [numeric](10, 0) NOT NULL,
      [name] [varchar](255) NOT NULL,
      [phone] [varchar](255) NOT NULL,
      [email] [varchar](255) NOT NULL,
      [street] [varchar](255) NOT NULL,
     [customerType] [varchar](255) NOT NULL,
PRIMARY KEY CLUSTERED
      [cpr] ASC
```

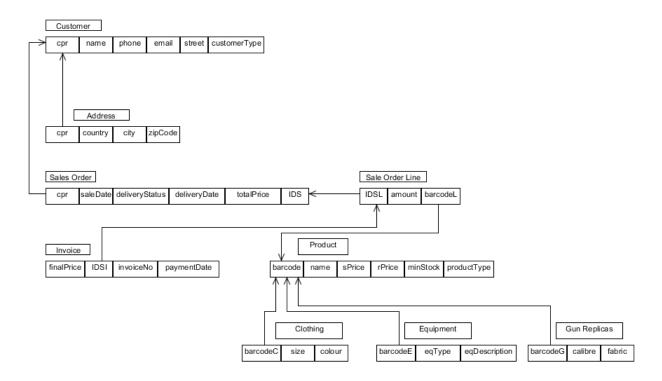
```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
SET ANSI PADDING OFF
SET ANSI_NULLS ON
G0
SET QUOTED_IDENTIFIER ON
SET ANSI PADDING ON
CREATE TABLE [dbo].[Equipement](
     [barcodeE] [numeric](10, 0) NOT NULL,
     [eqType] [varchar](255) NOT NULL,
     [eqDescription] [varchar](255) NOT NULL
) ON [PRIMARY]
GO
SET ANSI PADDING OFF
/***** Object: Table [dbo].[GunReplicas] Script Date: 20-Mar-15 4:34:21 PM ******/
SET ANSI NULLS ON
SET QUOTED IDENTIFIER ON
GO
SET ANSI_PADDING ON
CREATE TABLE [dbo].[GunReplicas](
     [barcodeG] [numeric](10, 0) NOT NULL,
     [calibre] [varchar](255) NOT NULL,
     [fabric] [varchar](255) NOT NULL
) ON [PRIMARY]
SET ANSI_PADDING OFF
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
SET ANSI PADDING ON
CREATE TABLE [dbo].[Invoice](
     [finalPrice] [numeric](10, 0) NOT NULL,
     [IDSI] [numeric](10, 0) NOT NULL,
     [invoiceNo] [numeric](10, 0) NOT NULL,
     [paymentDate] [varchar](255) NOT NULL
) ON [PRIMARY]
GO.
SET ANSI PADDING OFF
SET ANSI_NULLS ON
```

```
G0
SET QUOTED IDENTIFIER ON
SET ANSI_PADDING ON
GO
CREATE TABLE [dbo].[Product](
      [barcode] [numeric](10, 0) NOT NULL,
      [name] [varchar](255) NOT NULL,
      [sPrice] [numeric](10, 0) NOT NULL,
      [rPrice] [numeric](10, 0) NOT NULL,
      [minStock] [numeric](10, 0) NOT NULL,
      [productType] [varchar](255) NOT NULL,
PRIMARY KEY CLUSTERED
      [barcode] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
SET ANSI_PADDING OFF
SET ANSI_NULLS ON
G0
SET QUOTED IDENTIFIER ON
SET ANSI_PADDING ON
GO
CREATE TABLE [dbo].[SalesOrder](
      [cpr] [numeric](10, 0) NOT NULL,
      [saleDate] [varchar](255) NOT NULL,
      [deliveryStatus] [varchar](255) NOT NULL,
      [deliveryDate] [varchar](255) NOT NULL,
      [totalPrice] [numeric](10, 0) NOT NULL,
      [IDS] [numeric](10, 0) NOT NULL,
PRIMARY KEY CLUSTERED
(
      [IDS] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF,
ALLOW ROW LOCKS = ON, ALLOW PAGE LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
G0
SET ANSI PADDING OFF
/***** Object: Table [dbo].[SalesOrderLine] Script Date: 20-Mar-15 4:34:21 PM
*****/
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
CREATE TABLE [dbo].[SalesOrderLine](
      [IDSL] [numeric](10, 0) NOT NULL,
      [amount] [numeric](10, 0) NOT NULL,
      [barcodeL] [numeric](10, 0) NOT NULL
) ON [PRIMARY]
```

```
GO
ALTER TABLE [dbo].[Address] WITH CHECK ADD CONSTRAINT [fk cpr] FOREIGN KEY([cpr])
REFERENCES [dbo].[Customer] ([cpr])
ALTER TABLE [dbo].[Address] CHECK CONSTRAINT [fk_cpr]
ALTER TABLE [dbo].[Clothing] WITH CHECK ADD CONSTRAINT [fk barcodeC] FOREIGN
KEY([barcodeC])
REFERENCES [dbo].[Product] ([barcode])
ALTER TABLE [dbo].[Clothing] CHECK CONSTRAINT [fk_barcodeC]
ALTER TABLE [dbo].[Equipement] WITH CHECK ADD CONSTRAINT [fk barcodeE] FOREIGN
KEY([barcodeE])
REFERENCES [dbo].[Product] ([barcode])
ALTER TABLE [dbo].[Equipement] CHECK CONSTRAINT [fk_barcodeE]
ALTER TABLE [dbo].[GunReplicas] WITH CHECK ADD CONSTRAINT [fk_barcodeG] FOREIGN
KEY([barcodeG])
REFERENCES [dbo].[Product] ([barcode])
ALTER TABLE [dbo].[GunReplicas] CHECK CONSTRAINT [fk_barcodeG]
ALTER TABLE [dbo].[Invoice] WITH CHECK ADD CONSTRAINT [fk IDSI] FOREIGN KEY([IDSI])
REFERENCES [dbo].[SalesOrder] ([IDS])
ALTER TABLE [dbo].[Invoice] CHECK CONSTRAINT [fk_IDSI]
ALTER TABLE [dbo].[SalesOrder] WITH CHECK ADD CONSTRAINT [fk_scpr] FOREIGN KEY([cpr])
REFERENCES [dbo].[Customer] ([cpr])
ALTER TABLE [dbo].[SalesOrder] CHECK CONSTRAINT [fk_scpr]
ALTER TABLE [dbo].[SalesOrderLine] WITH CHECK ADD CONSTRAINT [fk_barcodeL] FOREIGN
KEY([barcodeL])
REFERENCES [dbo].[Product] ([barcode])
ALTER TABLE [dbo].[SalesOrderLine] CHECK CONSTRAINT [fk_barcodeL]
ALTER TABLE [dbo].[SalesOrderLine] WITH CHECK ADD CONSTRAINT [fk_IDSL] FOREIGN
KEY([IDSL])
REFERENCES [dbo].[SalesOrder] ([IDS])
ALTER TABLE [dbo].[SalesOrderLine] CHECK CONSTRAINT [fk IDSL]
```

(This script was generated by program, because when we've created the tables we have done it step by step)

Relational model.



Fully dressed use-case for order processing

Register order		
Actors	Employee/Manager	
Pre-conditions	The desired product is available in stock	
Post-condition	The order is created and the products are added to the invoice	
Frequency	10 times a day	
Main success scenario	Actors(Action)	System(Response)
	1.Employee searches for the desired product	2.System shows if the product(s) are available
	3.Employee adds the products from the database	4.System creates a new order
	5.Employee enters customer's ID and type	6.System calculates the price and makes a discount (if the requirements are fulfilled)
		7.System updates the stock and prints the receipt
Alternative flows	*-Item is not available in the stock	

Interaction diagrams, fully dressed use-case

