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COMPUTER ENGINEERING DEPARTMENT

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Online Book Store

Object Oriented Programming II

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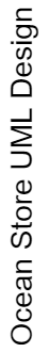
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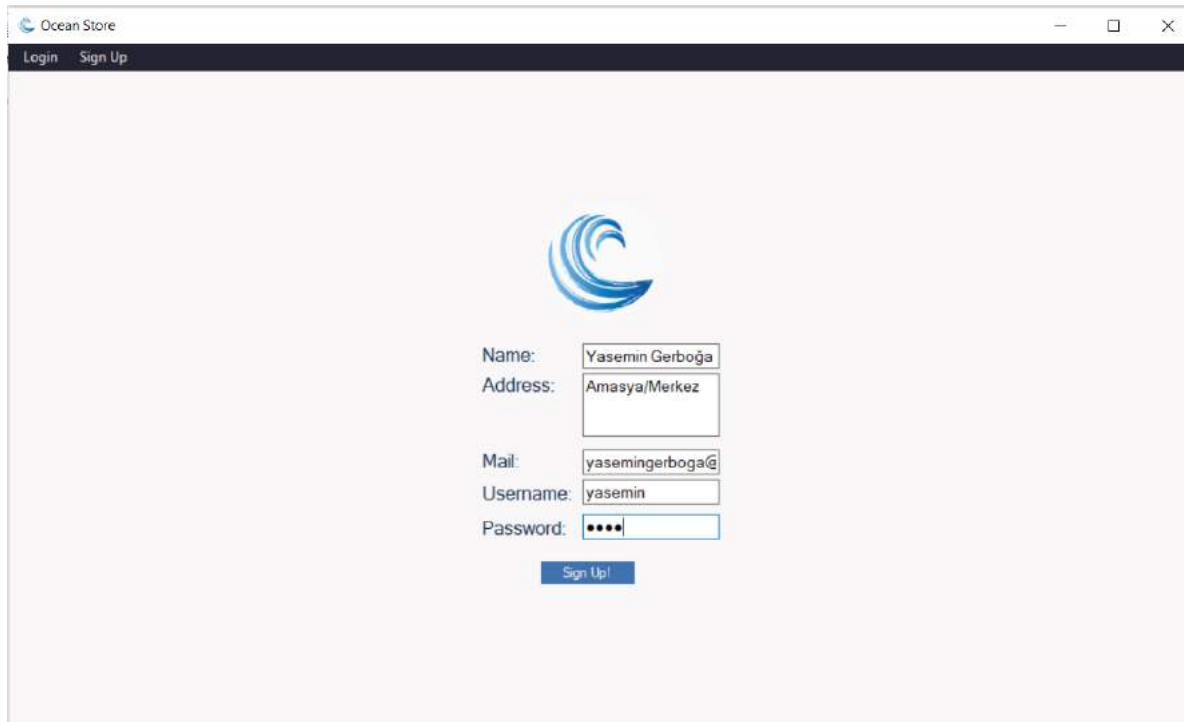
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The project's purpose is to gain the shopping experience to customer. The project's idea is to purchase product from online shopping application. The customer logs in to the application with username and password. The customer can examine product and its properties (name, price, piece that received) after login. The customer can add product as many products as wants also can remove products from shopping cart. The customer can choose one of from cash, credit card or transfer/EFT for payment . The customer can choose delivery address. The customer must enter verification code that sent to e-mail address. Therefore the customer should enter correct e-mail address. The customer's invoice will sent to customer's e-mail address in .pdf format. The customer can see cargo status and can see old orders.

2.1. UML




2.2. SAMPLE OUTPUT OF PROGRAM FOR SAMPLE INPUT



Ocean Store

Login Sign Up



Name:

Address:

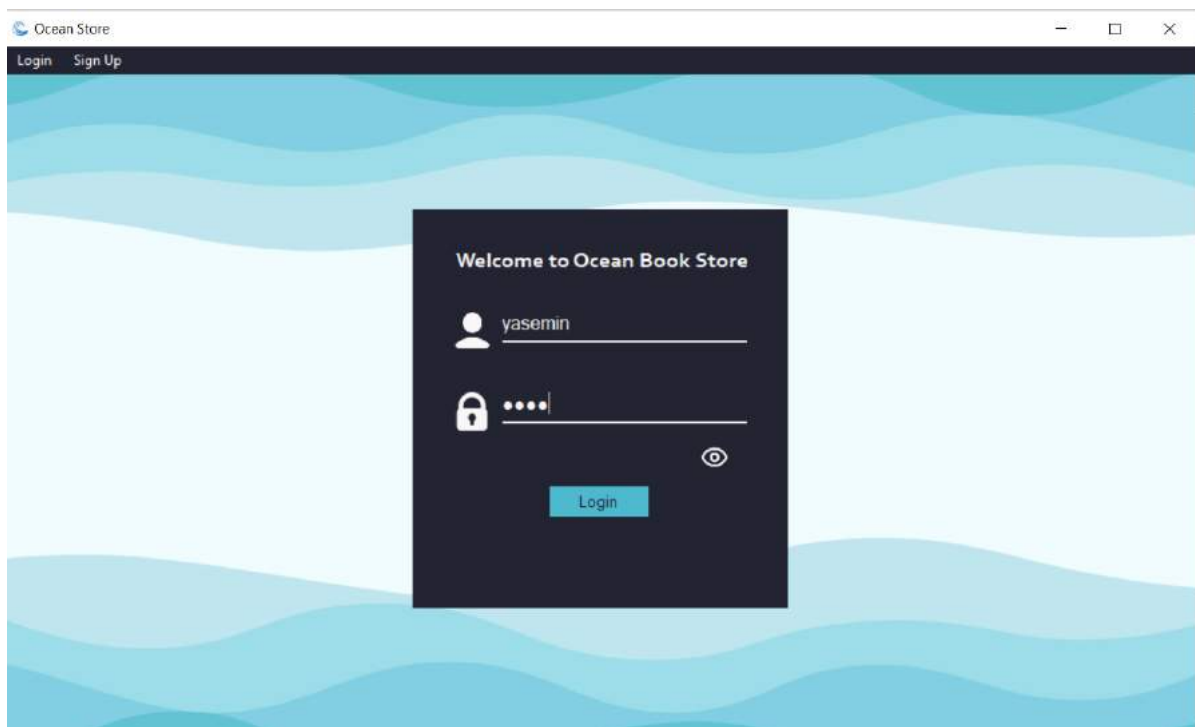
Mail:

Username:

Password:

SIGN UP SCREEN


This screen provides us sign up to the application





Ocean Store

Login Sign Up

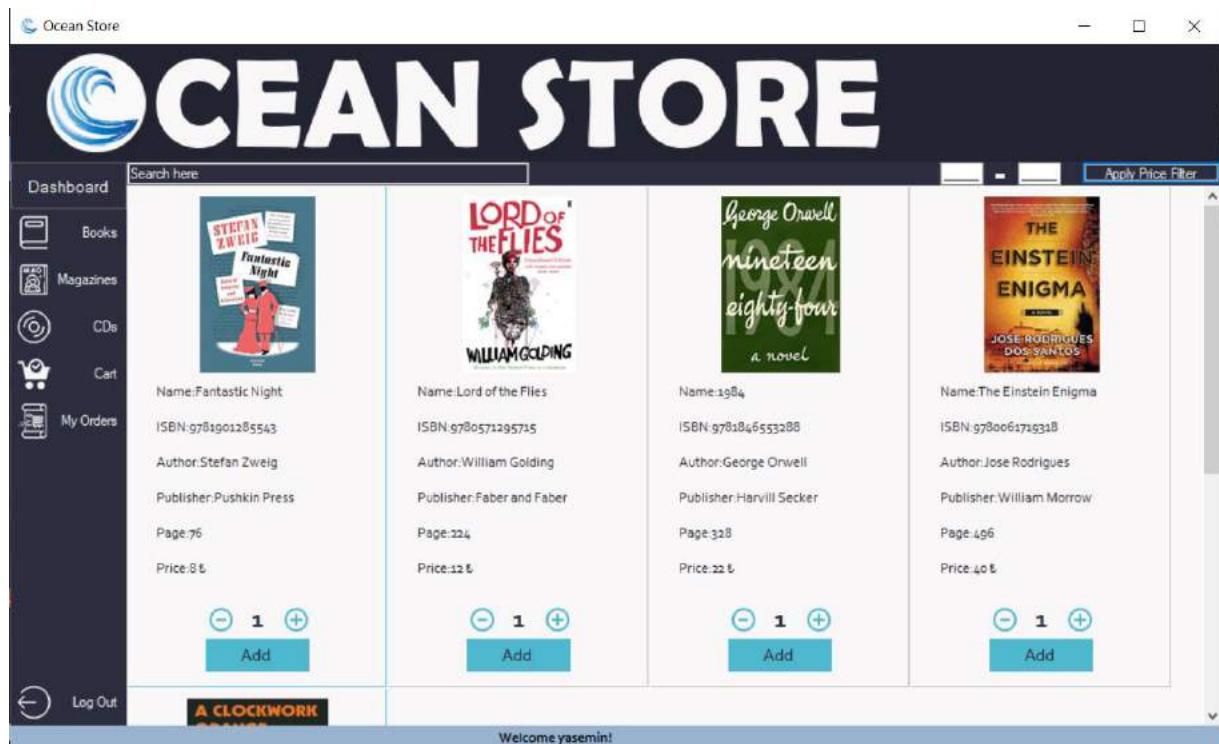
Welcome to Ocean Book Store

 yasemin

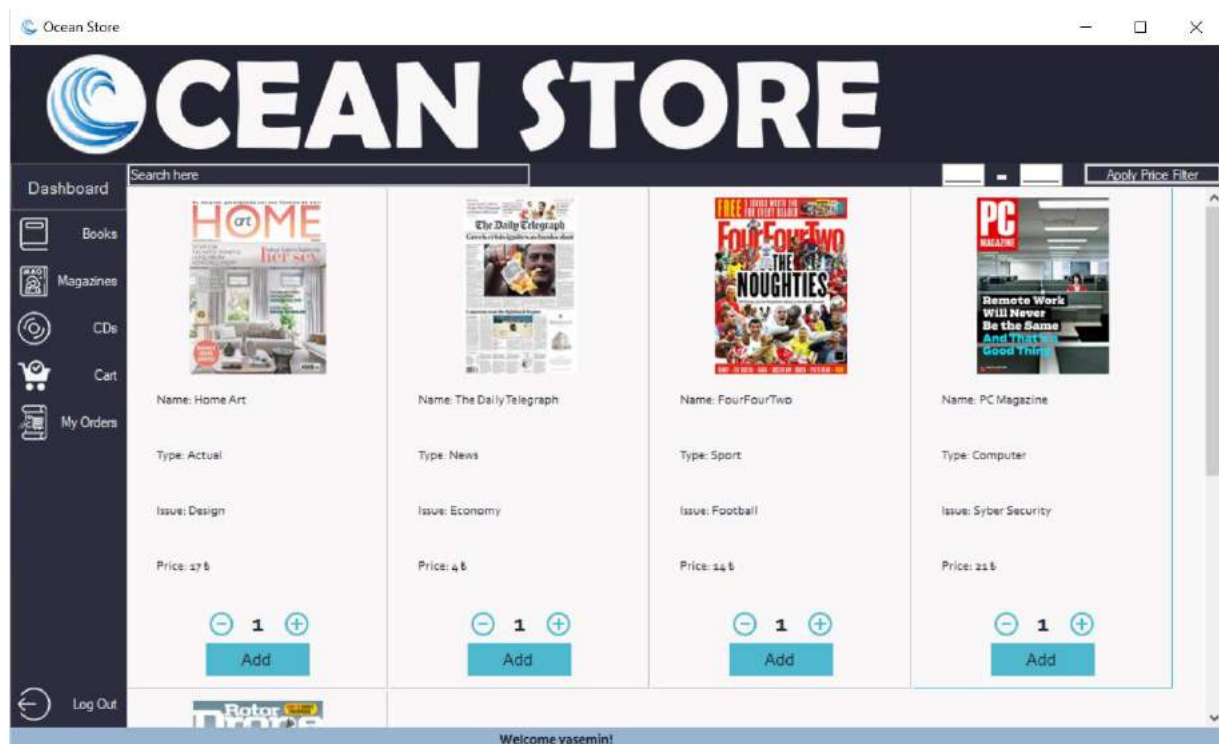
LOGIN SCREEN

This screen provides us login to the application



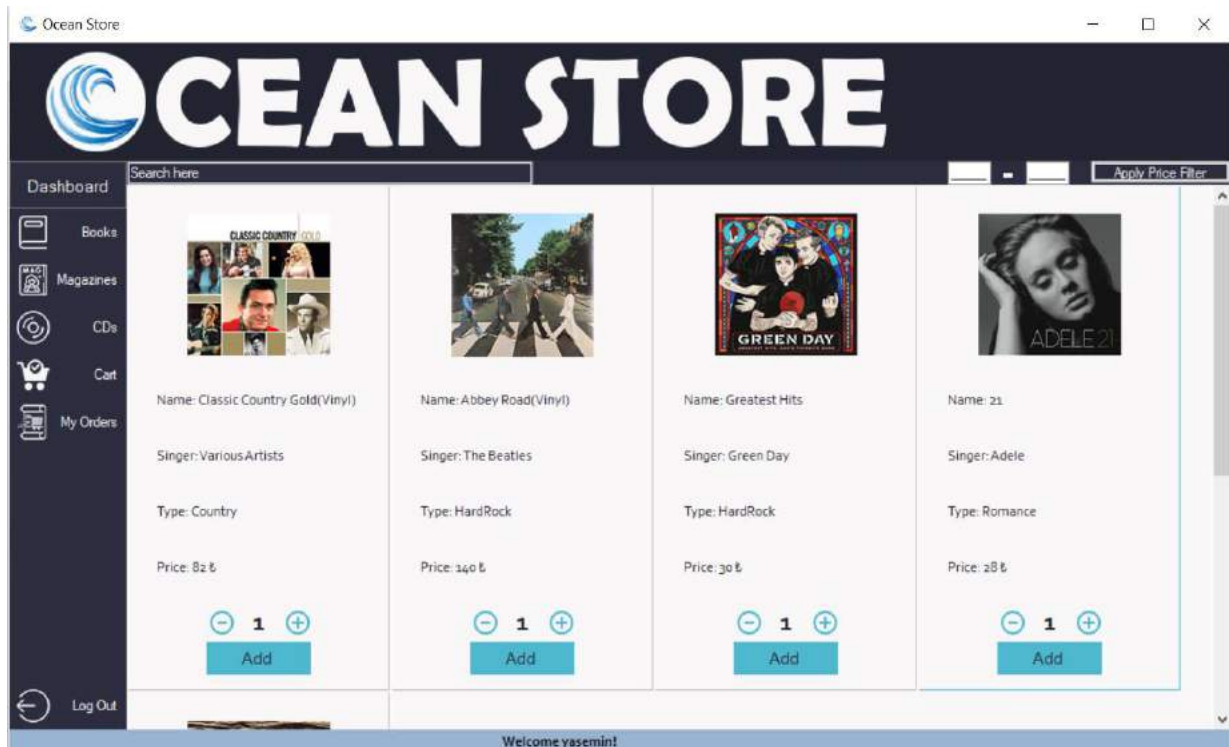
BOOKS SCREEN

This screen provides us list of books



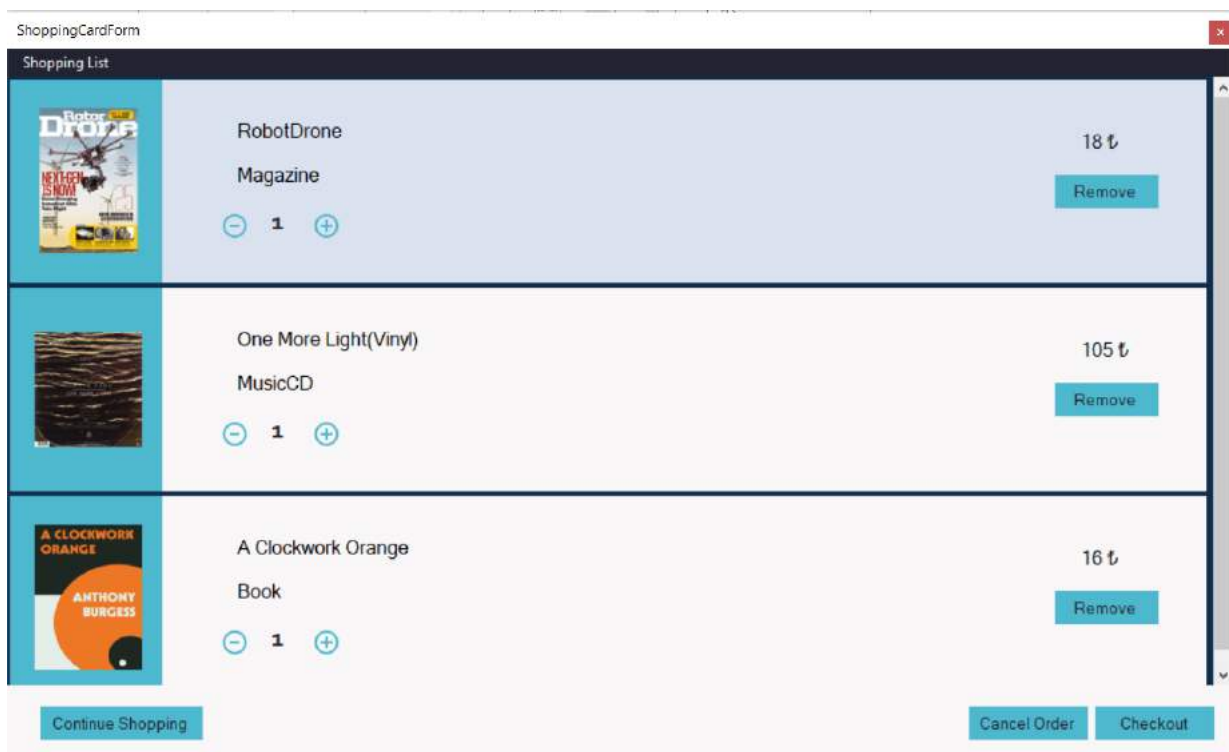
MAGAZINES SCREEN

This screen provides us list of magazines.



MUSICCD SCREEN

This screen provides us list of musicCd



SHOPPING LIST

This screen shows shopping cart

Invoice

☒ MyAddress

☐ Other Address

Amasya/Merkez

☒ MNG Cargo

☐ Aras Cargo

☐ Credit Card

☐ Cash

☒ Transfer/EFT

Place Order

☒ Yapı Kredi Bankası

☐ Finansbank

☐ Ziraat Bankası

☐ Garanti Bankası

Drawee: Yasemin Gerboğa

TR - 75-00067-0-1000000058545814

Verification Code

Enter the code that was sent to the your e-mail

2284

Verify

Invoice Summary

Total Price:139₺

Cargo Price: 0₺

Tax:25,02₺

Total (with Tax): 164,02₺

Continue Shopping

PAYMENT SCREEN

This screen shows payment operations

#6 Order Verification Code Gelen Kutusu x

oceanbookstore2020@gmail.com
Alıcı: ben ▾
#6 order will be placed.
Please enter code shown below
2284

Yanıtla

Yönlendir

VERIFICATION CODE IN MAIL

This screen shows verification code that sent to the e-mail

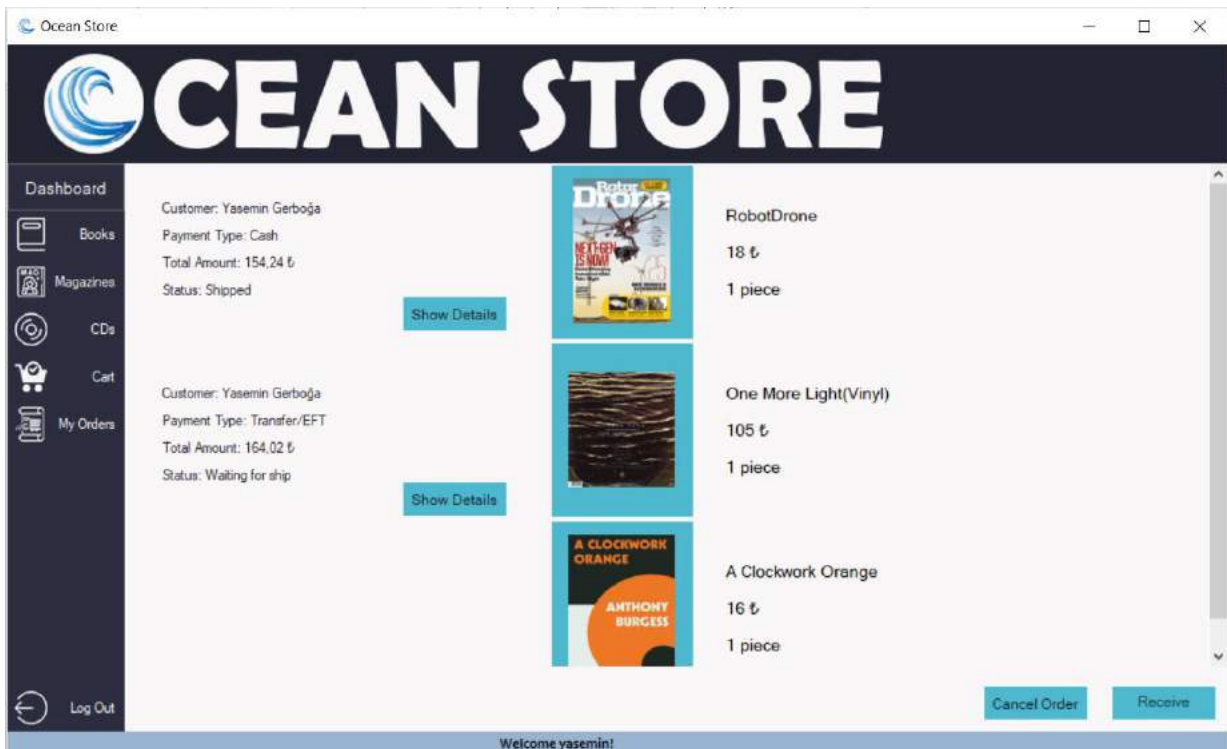
CEAN STORE

Date	31.05.2020 23:30:56
Username	yasemin
Order ID	6
Cargo Amount	0
Payment Amount	164,02

Image	ID	Name	Quantity	Total Price
	25	Robot&Drone	1	18
	35	One More Light(Vinyl)	1	105
	15	A Clockwork Orange	1	16

INVOICE PDF FILE IN MAIL

This screen shows invoice information that sent to the e-mail



Ocean Store

Dashboard

- Books
- Magazines
- CDs
- Cart
- My Orders
- Log Out

Customer: Yasemin Gerboğa
Payment Type: Cash
Total Amount: 154,24 ₺
Status: Shipped
[Show Details](#)

Customer: Yasemin Gerboğa
Payment Type: Transfer/EFT
Total Amount: 164,02 ₺
Status: Waiting for ship
[Show Details](#)

RobotDrone
 18 ₺
 1 piece

One More Light(Vinyl)
 105 ₺
 1 piece

A Clockwork Orange
 16 ₺
 1 piece

[Cancel Order](#) [Receive](#)

Welcome yasemin!

MY ORDERS SCREEN

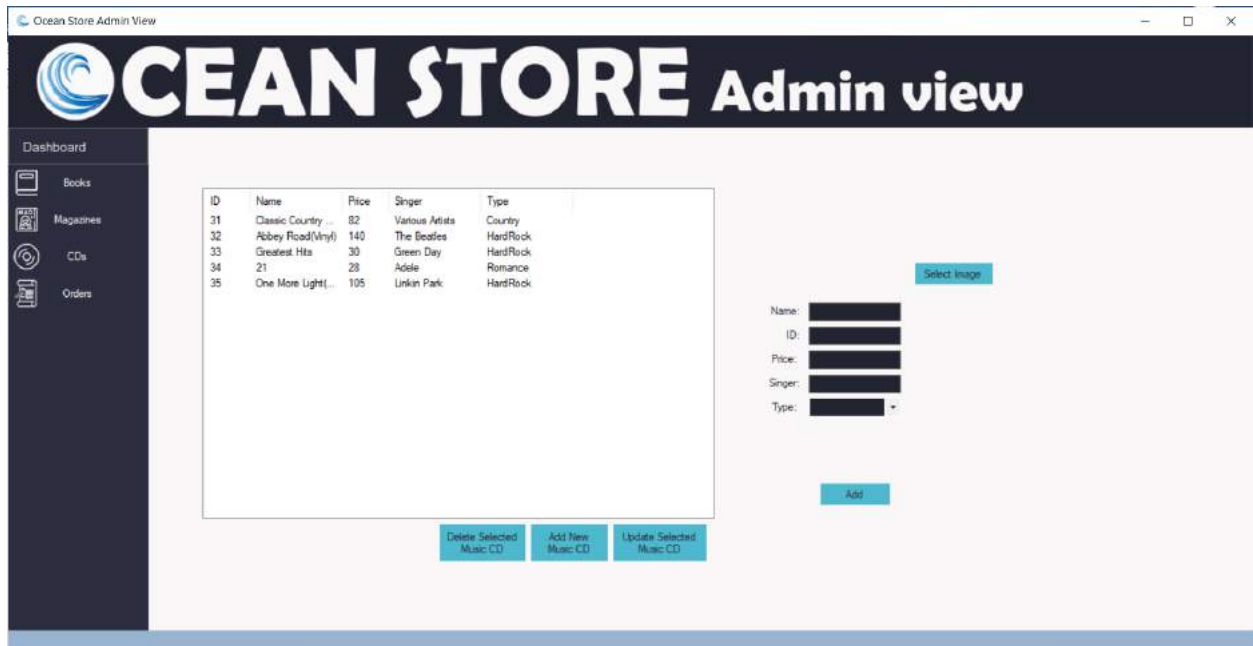
This screen shows orders belong to customer



ADMIN BOOKS SCREEN
In this screen, admin can add, delete and update books.

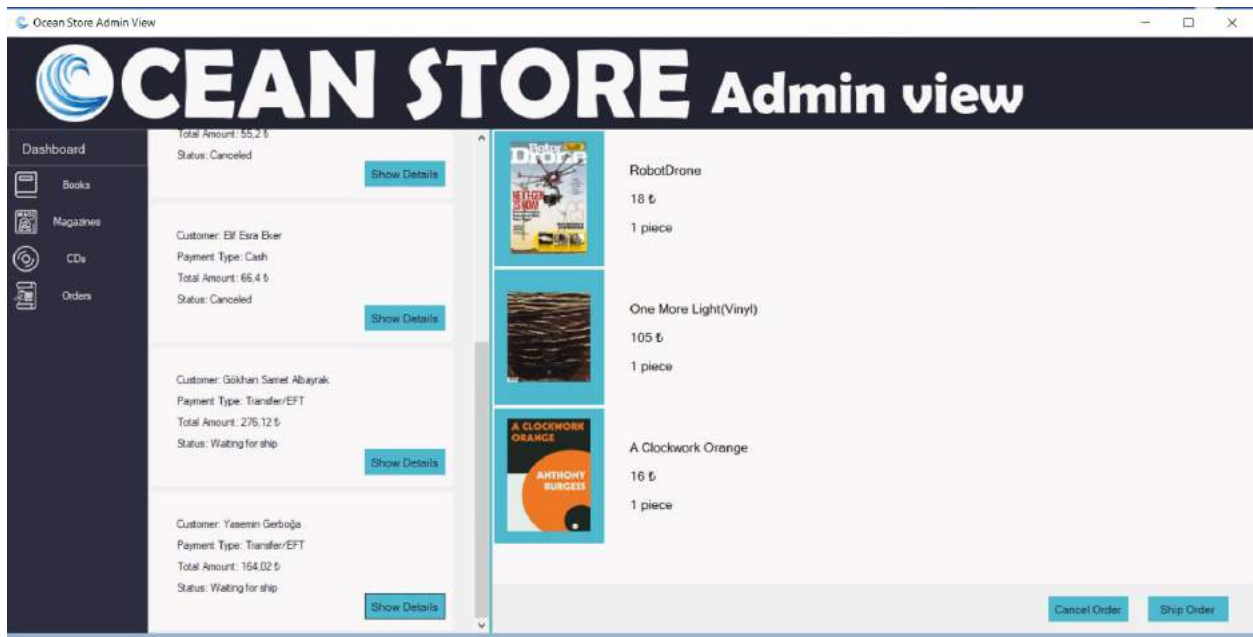


ADMIN MAGAZINES SCREEN
In this screen, admin can add, delete and update magazines.



ADMIN MUSICCD SCREEN

In this screen, admin can add, delete and update musicCd



ADMIN ORDERS SCREEN

In this screen, admin can see all customer's orders

2.3. DESIGN PATTERN DESCRIPTION

Design patterns are an important part of object-oriented programming. We used two types of design patterns in this project.

Singleton Pattern

We will explain the singleton design pattern and why we use it. Singleton Design Pattern is in the Creational Design Pattern group. Singleton design pattern is the design pattern that guarantees that only one object is created at run time. One of our purposes is to make the logged in user unique. We created a class for this requirement and let the class manage its own instance. We accessed instance via getInstance() method via another class. In Singleton Pattern, an object is created only when we need it. So, we avoided creating global variable. We use this pattern in Logger class and Logged Customer class in project.

FactoryMethod Pattern

We used the factory design pattern as the second pattern. The Factory design pattern is a structure based on class creation. Since the program we wrote has more than one class that is similar to each other, we used this pattern in order to use the new operator each time when creating such classes, or to write code as if they were independent from each other. We used this structure when producing a product with the factories we created or when producing more than one similar product. We use polymorphism. Product class is not interested in the instance. Let's think. We are a customer who goes to the restaurant. We want to eat meal but we don't interested in how the meal cooks. Product class is customer and the instance of product is a meal. When creating an object, we created a creator object and we created it with the factory. (BookFactory, MagazineFactory, MusicCdFactory). While accessing the information inside, we accessed object with virtual FactoryMethod () function by giving the type of our object.

2.4. TASK ASSIGNMENTS

SİNA KUŞOĞLU	AdminScreen, LoginScreen, SignUp Screen, ShoppingCard, Invoice, Util, StoreMainScreen, MyOrders, ItextSharp
İSMAİL DEMİRCAN	Logged Customer, ShoppingCard, ShoppingList, Util, Search and Price Filter, FactoryMethod, Logger
GÖKHAN SAMET ALBAYRAK	MusicCd Design, MusicCd Screen, Product, Book, Magazine, MusicCd, MusicCdFactory, Invoice, MyOrders, Logger
YASEMİN GERBOĞA	Books Design, Books Screen, Customer, BookFactory, Invoice, Util, StoreMainScreen
ELİF ESRA EKER	Magazines Design, Magazines Screen, MagazineFactory, Creator, ShoppingCard Class, ItemtoPurchase, Util

3. DUTY OF THE TEAM MEMBERS (PERCENT)

SİNA KUŞOĞLU -----	%26
İSMAİL DEMİRCAN -----	%22
GÖKHAN SAMET ALBAYRAK-----	%19
YASEMİN GERBOĞA -----	%19
ELİF ESRA EKER -----	%14