# AUCTION MANAGEMENT SYSTEM GUI VERSION



**SESSION: 2021-2024** 

**SUBMITTED BY:** 

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**SUBMITTED TO:** 

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# DEPARMENT OF COMPTER SCIENCE UNIVERSITY OF ENGINEERING AND TECHNOLOGY

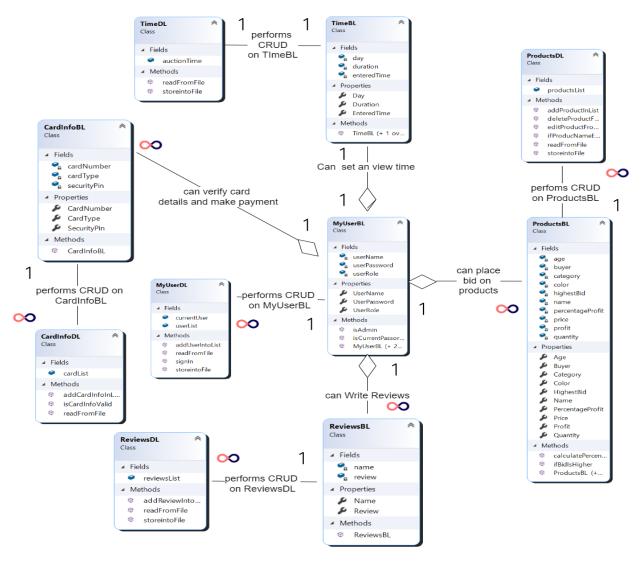
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# **Auction Management System**

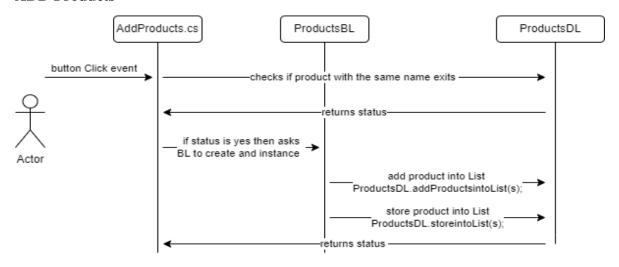
It is an Online Auction System where users can register as Auctioneer and Auction Goer. Where Auctioneers add products, sets the time of end of auction, view sales report, and see reviews with many other functionalities. Auction goers can place bids on the products on the products, make payments at the end of auction write reviews, change password and many others.

# **Class Diagram**

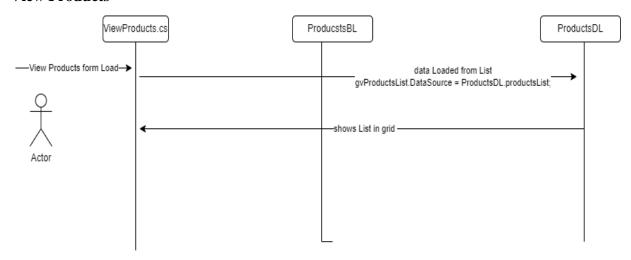


# Sequence Diagrams of CRUD of ProductsBL

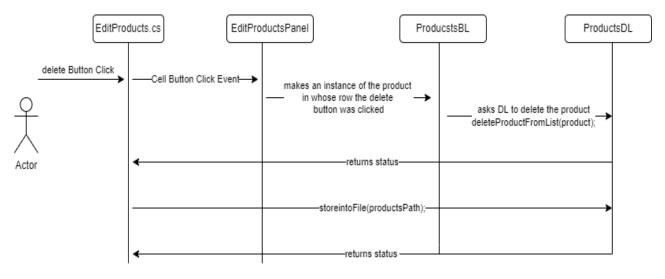
#### **ADD Products**



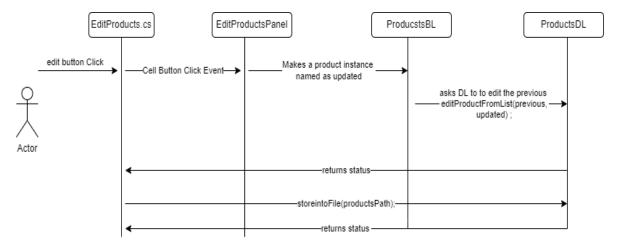
#### **View Products**



#### **Delete Products**



#### **Edit Products**



#### Wireframes

## Log In Page

#### **AUCTION MANAGEMENT SYSTEM**

Welcome to the Worlds First Online Auctions System



Start by Logging In

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Don't Have an Account? Sign Up

Next

## Sign Up

#### **AUCTION MANAGEMENT SYSTEM**

Welcome to the Worlds First Online Auctions System
SIGN UP



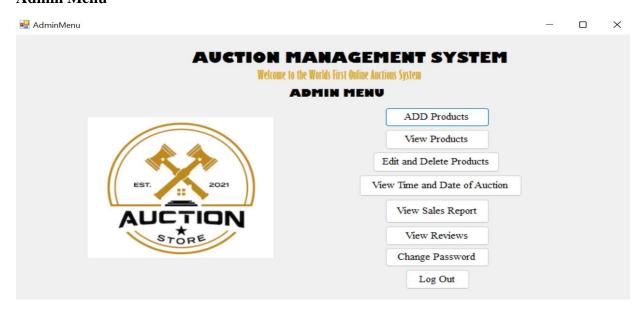
Ţ	Jser Name
τ	Jser Passwor
τ	Jser Role

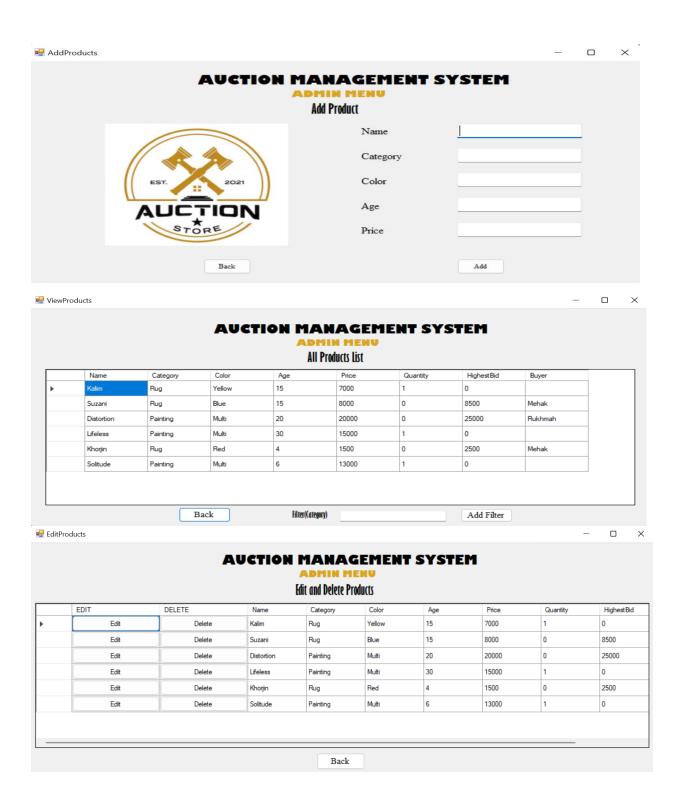
Next

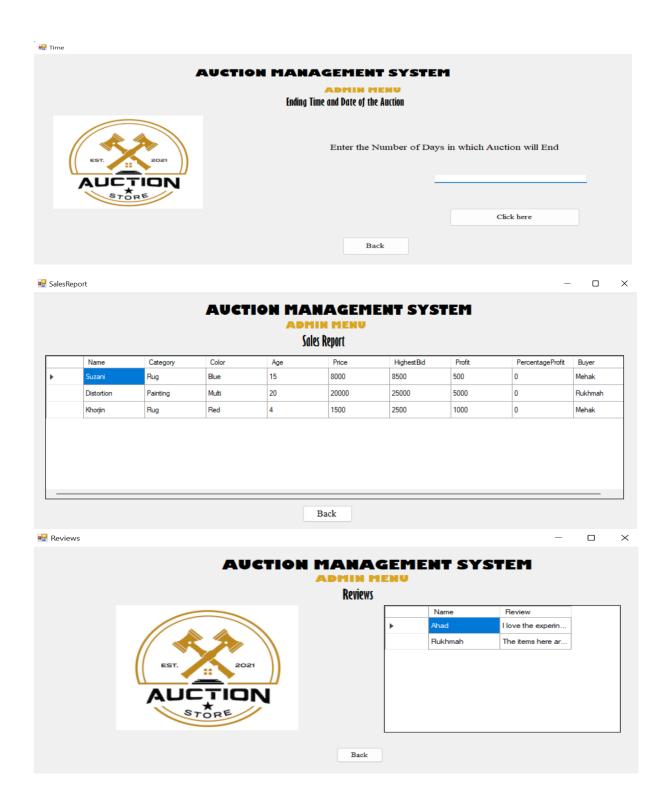
# Sign In

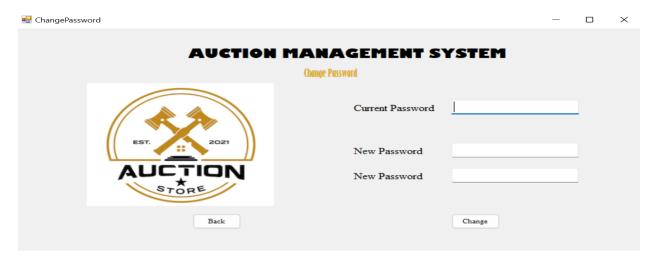
<b>№</b> SignIn		_	×
AUCT	'ION MANAGEMENT Welcome to the Worlds First Online Auctions System SIGN IN	SYSTEM	
EST. 2021	User Name		
AUCTION	User Password		
Back		Next	

#### **Admin Menu**

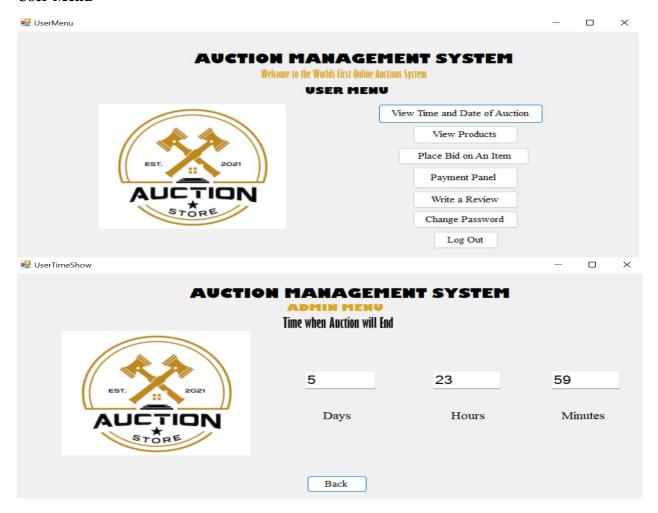


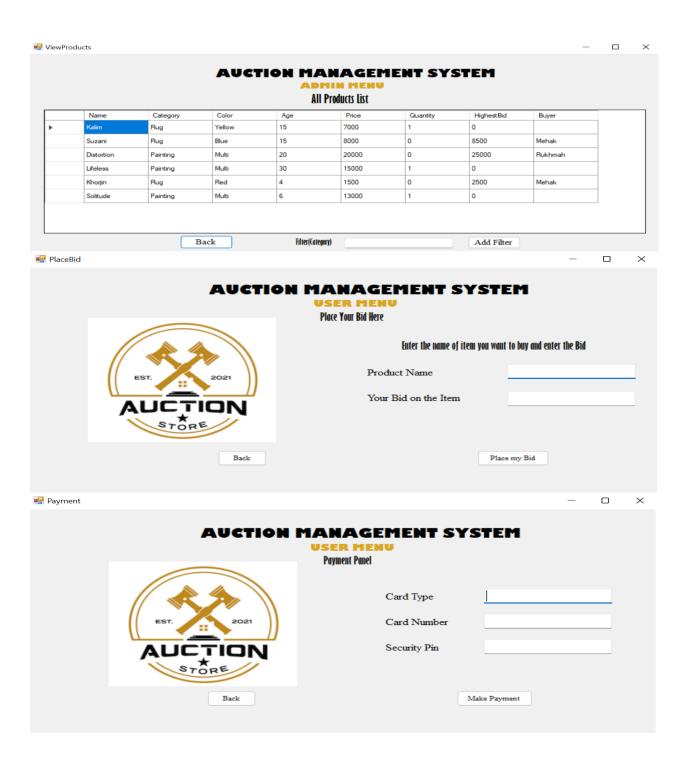


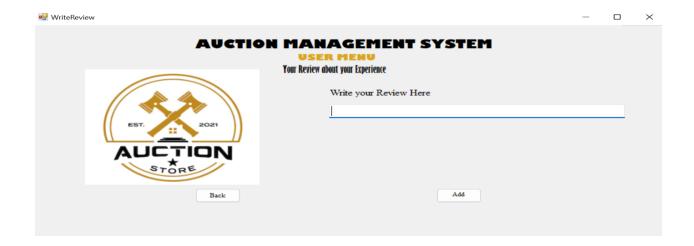


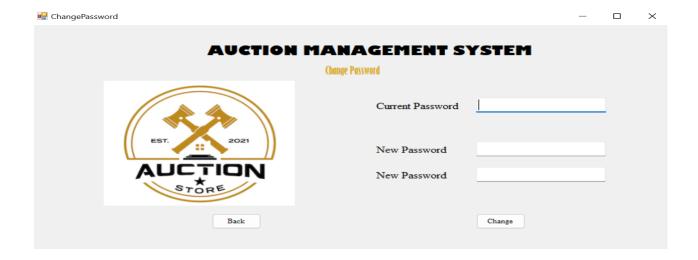


#### **User Menu**









## **Full Code**

## MyUser BL

```
class MyUserBL
  {
    private string userName;
    private string userPassword;
    private string userRole;
    public string UserName { get => userName; set => userName = value; }
    public string UserPassword { get => userPassword; set => userPassword = value; }
     public string UserRole { get => userRole; set => userRole = value; }
    public MyUserBL()
    {
    }
    public MyUserBL(string userName, string userPassword, string userRole) // for signup
       this.UserName = userName;
       this.UserPassword = userPassword;
       this.UserRole = userRole;
    public MyUserBL(string userName, string userPassword) // for signin
       this.UserName = userName;
       this.UserPassword = userPassword;
       this.UserRole = "NA";
```

```
public bool isAdmin() // checks if user is admin
    { if (UserRole == "Admin")
       {
         return true;
       }
       else
       {
         return false;
       }
    public bool isCurrentPassordValid(string currentPassword)
       if (currentPassword == UserPassword)
       {
         return true;
       }
       else
       {
         return false;
       }
    }
MyUser DL
class MyUserDL
    public static MyUserBL currentUser = new MyUserBL();
    public static List<MyUserBL> userList = new List<MyUserBL>();
    static public void addUserIntoList(MyUserBL User)
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                                                 14
```

```
{
       userList.Add(User);
    }
    static public MyUserBL signIn(MyUserBL User)
    {
       foreach (MyUserBL storedUser in userList)
       {
         if (User.UserName == storedUser.UserName && User.UserPassword ==
storedUser.UserPassword)
         {
            currentUser = storedUser;
           return storedUser;
         }
       }
       return null;
    }
    public static void storeintoFile(string path)
    {
       StreamWriter f = new StreamWriter(path);
       foreach (MyUserBL p in userList)
         f.WriteLine(p.UserName + "," + p.UserPassword + "," + p.UserRole);
       }
      f.Flush();
       f.Close();
    }
    public static bool readFromFile(string path)
       StreamReader f = new StreamReader(path);
Amna Imran Nagi
                                                 15
```

```
string record;
  if (File.Exists(path))
          {
     while ((record = f.ReadLine()) != null)
     {
       string[] splittedRecord = record.Split(',');
       string userName = splittedRecord[0];
       string userPassword = splittedRecord[1];
       string userRole = splittedRecord[2];
       MyUserBL s = new MyUserBL(userName, userPassword, userRole);
       addUserIntoList(s);
    f.Close();
    return true;
  }
  else
    return false;
  }
}
```

#### **Products BL**

```
public class ProductsBL

{
    private string name;
    private string category;
    private string color;
    private int age;
```

# Auction Management System GUI VERSION

```
private int price;
    private int quantity;
    private int highestBid;
    private int profit;
    private double percentageProfit;
    private string buyer;
    public string Name { get => name; set => name = value; }
    public string Category { get => category; set => category = value; }
    public string Color { get => color; set => color = value; }
    public int Age { get => age; set => age = value; }
    public int Price { get => price; set => price = value; }
    public int Quantity { get => quantity; set => quantity = value; }
    public int HighestBid { get => highestBid; set => highestBid = value; }
    public int Profit { get => profit; set => profit = value; }
    public double PercentageProfit { get => percentageProfit; set => percentageProfit = value; }
    public string Buyer { get => buyer; set => buyer = value; ;
    public ProductsBL()
    {}
public ProductsBL(string name, string category, string color, int age, int price)
    {
      this.Name = name;
       this.Category = category;
       this.Color = color;
       this. Age = age;
       this.Price = price;
       Quantity = 1;
       HighestBid = 0;
       Profit = 0;
       Buyer = "";
```

```
PercentageProfit = calculatePercentageProfit();
     }
     public ProductsBL(string name, string category, string color, int age, int price, int quantity, int
highestBid, int profit, double percenatgeProfit, string buyer)
     {
       this.Name = name;
       this.Category = category;
       this.Color = color;
       this. Age = age;
       this.Price = price;
       this.Quantity = quantity;
       this.HighestBid = highestBid;
       this.Profit = profit;
       this.Buyer = buyer;
       percenatgeProfit = calculatePercentageProfit();
     }
     public double calculatePercentageProfit()
     {
       return (Profit / Price) * 100;
     }
     public bool ifBidIsHigher(int bid, string username)
       if (bid == Price || bid >= Price)
       {
          HighestBid = bid;
          Quantity = 0;
          Profit = HighestBid - Price;
          Buyer = username;
          calculatePercentageProfit();
```

```
return true;
       }
       else
         return false;
       }
    }
Products DL
class ProductsDL
  {
    static public List<ProductsBL> productsList = new List<ProductsBL>();
    static public void addProductInList(ProductsBL p)
        {
       productsList.Add(p);
    static public ProductsBL ifProducNameExists(string name)
    {
       bool nameCheck = false;
      ProductsBL product = new ProductsBL();
       foreach (ProductsBL p in ProductsDL.productsList)
         if (p.Name == name)
           nameCheck = true;
           product = p;
       if (nameCheck == true)
```

```
Auction Management System
GUI VERSION
```

```
{
         return product;
        }
       else
       {
         return null;
       }
     public static void storeintoFile(string path)
     {
       StreamWriter f = new StreamWriter(path);
       foreach (ProductsBL m in productsList)
       {
         f.WriteLine(m.Name + "," + m.Category + "," + m.Color + "," + m.Age + "," + m.Price + "," +
m.Quantity + "," + m.HighestBid + "," + m.Profit + "," + m.PercentageProfit + "," + m.Buyer);
       }
       f.Flush();
       f.Close();
     }
     public static bool readFromFile(string path)
       StreamReader f = new StreamReader(path);
       string record;
       if (File.Exists(path))
       {
          while ((record = f.ReadLine()) != null)
          {
            string[] splittedRecord = record.Split(',');
            string name = splittedRecord[0];
            string category = splittedRecord[1];
                                                    20
```

# Auction Management System GUI VERSION

```
string color = splittedRecord[2];
            int age = int.Parse(splittedRecord[3]);
            int price = int.Parse(splittedRecord[4]);
            int quantity = int.Parse(splittedRecord[5]);
            int highestBid = int.Parse(splittedRecord[6]);
            int profit = int.Parse(splittedRecord[7]);
            int percentageProfit = int.Parse(splittedRecord[8]);
            string buyer = splittedRecord[9];
            ProductsBL s = new ProductsBL(name, category, color, age, price, quantity, highestBid,
profit, percentageProfit, buyer);
            productsList.Add(s);
          }
         f.Close();
         return true;
       }
       else
         return false;
       }
    }
    public static void deleteProductFromList(ProductsBL product)
    {
       for (int index = 0; index < productsList.Count; index++)
       {
         if (productsList[index].Name == product.Name)
          {
            productsList.RemoveAt(index);
       }
```

```
Auction Management System
GUI VERSION
   }
public static void editProductFromList(ProductsBL previous, ProductsBL updated)
    {
       foreach (ProductsBL product in productsList)
       {
         if (product.Name == previous.Name)
         {
           product.Name = updated.Name;
           product.Category = updated.Category;
           product.Color = updated.Color;
           product.Age = updated.Age;
           product.Price = updated.Price;
CardInfo BL
class CardInfoBL
  {
    private string cardType;
    private int cardNumber;
    private int securityPin;
    public CardInfoBL(string cardType, int cardNumber, int securityPin)
       this.CardType = cardType;
       this.CardNumber = cardNumber;
       this.SecurityPin = securityPin;
    public string CardType { get => cardType; set => cardType = value; }
                                                 22
```

```
public int CardNumber { get => cardNumber; set => cardNumber = value; }
    public int SecurityPin { get => securityPin; set => securityPin = value; }
  }
CardInfo DL
class CardInfoDL
  {
    static public List<CardInfoBL> cardList = new List<CardInfoBL>();
    static public void addCardInfoInList(CardInfoBL p)
    {
      cardList.Add(p);
    static public bool isCardInfoValid(CardInfoBL m)
    {
       foreach (CardInfoBL storedCard in cardList)
         if (m.CardNumber == storedCard.CardNumber && m.CardType == storedCard.CardType &&
m.SecurityPin == storedCard.SecurityPin)
         {
           return true;
      return false;
    }
    public static bool readFromFile(string path)
       StreamReader f = new StreamReader(path);
       string record;
       if (File.Exists(path))
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```

```
while ((record = f.ReadLine()) != null)
            string[] splittedRecord = record.Split(',');
            string cardType = splittedRecord[0];
            int cardNumber = int.Parse(splittedRecord[1]);
            int securityPin = int.Parse(splittedRecord[2]);
            CardInfoBL s = new CardInfoBL(cardType, cardNumber, securityPin);
            addCardInfoInList(s);
          }
         f.Close();
         return true;
       }
       else
       {
         return false;
       }
Reviews BL
class ReviewsBL
  {
     private string name;
     private string review;
     public ReviewsBL(string name, string review)
       this.Name = name;
       this.Review = review;
     public string Name { get => name; set => name = value; }
                                                   24
```

string[] splittedRecord = record.Split(',');

```
string name = splittedRecord[0];
            string review = splittedRecord[1];
            ReviewsBL s = new ReviewsBL(name, review);
            reviewsList.Add(s);
         }
         f.Close();
         return true;
       }
       else
         return false;
Time BL
class TimeBL
  {
    private int day;
    private int enteredTime;
    private int duration;
    public TimeBL()
    public TimeBL(int day, int enteredTime, int duration)
       this. Day = day;
       this.EnteredTime = enteredTime;
       this.Duration = duration;
    }
```

```
public int Day { get => day; set => day = value; }
     public int EnteredTime { get => enteredTime; set => enteredTime = value; }
     public int Duration { get => duration; set => duration = value; }
  }
Time DL
class TimeDL
  {
     static public TimeBL auctionTime = new TimeBL();
     public static void storeintoFile(string path)
     {
       StreamWriter f = new StreamWriter(path);
       f.WriteLine(auctionTime.Day + "," + auctionTime.EnteredTime + "," + auctionTime.Duration);
       f.Flush();
       f.Close();
     }
     public static bool readFromFile(string path)
       StreamReader f = new StreamReader(path);
       string record;
       if (File.Exists(path))
          while ((record = f.ReadLine()) != null)
          {
            string[] splittedRecord = record.Split(',');
            int day = int.Parse(splittedRecord[0]);
            int enteredTime = int.Parse(splittedRecord[1]);
```

```
int duration = int.Parse(splittedRecord[2]);
            TimeBL s = new TimeBL(day, enteredTime, duration);
            auctionTime = s;
         }
         f.Close();
         return true;
       }
       else
       {
         return false;
Form1
public partial class LogInPage: Form
  {
    public LogInPage()
       InitializeComponent();
       string userPath = "userInfo.txt";
       if (MyUserDL.readFromFile(userPath))
       {
         MessageBox.Show("User Data Loaded Successfully");
       }
       else
         MessageBox.Show("Data not Loaded");
       }
       string productsPath = "productsInfo.txt";
```

```
if (ProductsDL.readFromFile(productsPath))
  MessageBox.Show("Products Data Loaded Successfully");
}
else
{
  MessageBox.Show("Products not Loaded");
}
string cardsPath = "cardsInfo.txt";
if (CardInfoDL.readFromFile(cardsPath))
{
  MessageBox.Show("Cards Data Loaded Successfully");
}
else
{
  MessageBox.Show("Cards not Loaded");
}
string reviewsPath = "reviewsInfo.txt";
if (ReviewsDL.readFromFile(reviewsPath))
{
  MessageBox.Show("Reviews Data Loaded Successfully");
}
else
{
  MessageBox.Show("Reviews not Loaded");
}
string timePath = "timeInfo.txt";
       if (TimeDL.readFromFile(timePath))
{
```

```
MessageBox.Show("Date and Time Data Loaded Successfully");
       }
      else
       {
         MessageBox.Show("Date and Time not Loaded");
       }
    }
    private void Form1_Load(object sender, EventArgs e)
    {
    }
    private void btnNext_Click(object sender, EventArgs e)
    {
      if (checkBoxSignIn.Checked)
       {
         SignIn form = new SignIn();
         form.Show();
         checkBoxSignIn.Checked = false;
       }
      else if (checkBoxSignUp.Checked)
       {
         SignUp form = new SignUp();
                   form.Show();
         checkBoxSignUp.Checked = false;
       }
    }
  }
Sign In Form
public partial class SignIn: Form
  {
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```

```
public SignIn()
  InitializeComponent();
}
public void ClearDataFromForm()
  txtUserName.Text = "";
  txtUserPassword.Text = "";
}
private void SignIn_Load(object sender, EventArgs e)
}
private void btnNext_Click(object sender, EventArgs e)
{
  string userName = txtUserName.Text;
  string userPassword = txtUserPassword.Text;
  MyUserBL User = new MyUserBL(userName, userPassword);
  MyUserBL validUser = MyUserDL.signIn(User);
  if (validUser != null)
  {
    MessageBox.Show("User is Valid");
    if (validUser.isAdmin())
      AdminMenu form = new AdminMenu();
```

```
form.Show();
         }
         else
           UserMenu form = new UserMenu();
           form.Show();
         }
       }
      else
         MessageBox.Show("User is Invalid");
       }
      ClearDataFromForm();
    }
     private void btnBack_Click(object sender, EventArgs e)
      this.Close();
    }
  }
Sign Up Form
public partial class SignUp: Form
    public SignUp()
      InitializeComponent();
    }
    private void SignUp_Load(object sender, EventArgs e)
                                                32
```

```
{
}
private void ClearDataFromForm()
  txtUserName.Text = "";
  txtUserPassword.Text = "";
  txtUserRole.Text = "";
}
private void btnNext_Click(object sender, EventArgs e)
{
  string userName = txtUserName.Text;
  string userPassword = txtUserPassword.Text;
  string userRole = txtUserRole.Text;
  string userPath = "userInfo.txt";
  bool flag = false;
  foreach (MyUserBL m in MyUserDL.userList)
  {
    if (userName == m.UserName)
    {
       MessageBox.Show("This UserName Already Exists");
       flag = true;
    }
  if (flag == false)
    MyUserBL User = new MyUserBL(userName, userPassword, userRole);
    MyUserDL.addUserIntoList(User);
```

```
MyUserDL.storeintoFile(userPath);

MessageBox.Show("User Added Successfully");
}
ClearDataFromForm();
}
private void btnBack_Click(object sender, EventArgs e)
{
    this.Close();
}
```

## AdminMenu Form

```
public partial class AdminMenu : Form
{
    public AdminMenu()
    {
        InitializeComponent();
    }
    private void btnAddProducts_Click(object sender, EventArgs e)
    {
        AddProducts form = new AddProducts();
        form.Show();
    }
    private void btnViewProducts_Click(object sender, EventArgs e)
    {
        ViewProducts form = new ViewProducts();
        form.Show();
    }
    private void button1_Click(object sender, EventArgs e)
```

```
{
  EditProducts form = new EditProducts();
  form.Show();
}
private void btnTImeDate_Click(object sender, EventArgs e)
{
  Time form = new Time();
  form.Show();
}
private void btnSalesReport_Click(object sender, EventArgs e)
{
  SalesReport form = new SalesReport();
  form.Show();
}
private void btnReviews_Click(object sender, EventArgs e)
  Reviews form = new Reviews();
  form.Show();
}
private void btnChangePassword_Click(object sender, EventArgs e)
{
  ChangePassword form = new ChangePassword();
  form.Show();
}
private void btnBack_Click(object sender, EventArgs e)
  this.Close();
}
```

}

# **AddProducts Form**

```
public partial class AddProducts: Form
  {
    public AddProducts()
       InitializeComponent();
    }
    private void ClearDataFromForm()
       txtName.Text = "";
       txtCategory.Text = "";
       txtColor.Text = "";
       txtAge.Text = "";
       txtPrice.Text = "";
    }
     private void btnAdd_Click(object sender, EventArgs e)
    {
       string productsPath = "productsInfo.txt";
       string name = txtName.Text;
       string category = txtCategory.Text;
       string color = txtColor.Text;
       int age = int.Parse(txtAge.Text);
       int price = int.Parse(txtPrice.Text);
       bool flag = false;
       foreach (ProductsBL m in ProductsDL.productsList)
         if (name == m.Name)
            MessageBox.Show("This Product Name Already Exists");
```

```
flag = true;
       }
       if (flag == false)
       {
         ProductsBL p = new ProductsBL(name, category, color, age, price);
         ProductsDL.addProductInList(p);
         ProductsDL.storeintoFile(productsPath);
         MessageBox.Show("Product Added Successfully");
       }
       ClearDataFromForm();
    }
    private void btnBack_Click(object sender, EventArgs e)
       this.Close();
    }
  }
ViewProducts Form
public partial class ViewProducts: Form
    public ViewProducts()
       InitializeComponent();
    private void lblAddProduct_Click(object sender, EventArgs e)
    private void ViewProducts_Load(object sender, EventArgs e)
```

```
{
      gvProductsList.DataSource = ProductsDL.productsList;
      gvProductsList.Columns["Profit"].Visible = false;
      gvProductsList.Columns["PercentageProfit"].Visible = false;
    }
    private void btnBack_Click(object sender, EventArgs e)
    {
      this.Close();
    }
    private void gvProducts_CellContentClick(object sender, DataGridViewCellEventArgs e)
private void btnAddFilter_Click(object sender, EventArgs e)
    {
      List<ProductsBL> rugs = new List<ProductsBL>();
      List<ProductsBL> paintings = new List<ProductsBL>();
      foreach(ProductsBL p in ProductsDL.productsList)
       {
        if(p.Category == "Rug")
         {
           rugs.Add(p);
         else if (p.Category == "Painting")
           paintings.Add(p);
         }
      if (txtFilterCategory.Text == "Rug")
      {
```

```
gvProductsList.DataSource = rugs;
gvProductsList.Columns["Profit"].Visible = false;
gvProductsList.Columns["PercentageProfit"].Visible = false;
}
else if (txtFilterCategory.Text == "Painting")
{
    gvProductsList.DataSource = paintings;
    gvProductsList.Columns["Profit"].Visible = false;
    gvProductsList.Columns["PercentageProfit"].Visible = false;
}
}
```

#### **EditProducts Form**

```
public partial class EditProducts : Form
{
    public EditProducts()
    {
        InitializeComponent();
    }
    private void btnBack_Click(object sender, EventArgs e)
    {
        this.Close();
    }
    private void lblEditProducts_Load(object sender, EventArgs e)
    {
        gvEditProductsList.DataSource = ProductsDL.productsList;
        gvEditProductsList.Columns["Profit"].Visible = false;
        gvEditProductsList.Columns["PercentageProfit"].Visible = false;
}
```

```
public void BindGrid()
       gvEditProductsList.DataSource = null;
       gvEditProductsList.DataSource = ProductsDL.productsList; \\
       gvEditProductsList.Refresh();
    }
    private void gvEditProductsList_CellContentClick(object sender, DataGridViewCellEventArgs e)
    {
       string productsPath = "productsInfo.txt";
       ProductsBL product = (ProductsBL)gvEditProductsList.CurrentRow.DataBoundItem;
       if (gvEditProductsList.Columns["Delete"].Index == e.ColumnIndex)
       {
         ProductsDL.deleteProductFromList(product);
         ProductsDL.storeintoFile(productsPath);
         BindGrid();
       }
       else if (gvEditProductsList.Columns["Edit"].Index == e.ColumnIndex)
       {
         EditProductPanel myform = new EditProductPanel(product);
         myform.ShowDialog();
         ProductsDL.storeintoFile(productsPath);
         BindGrid();
       }
    }
EditProductsPanel Form
public partial class EditProductPanel: Form
```

private ProductsBL previous;

```
public EditProductPanel(ProductsBL previous)
       InitializeComponent();
       this.previous = previous;
    }
    private void btnBack_Click(object sender, EventArgs e)
    {
       this.Close();
    }
    private void btnEdit_Click(object sender, EventArgs e)
    {
       ProductsBL updated = new ProductsBL(txtName.Text, txtCatgeory.Text, txtColor.Text,
int.Parse(txtAge.Text), int.Parse(txtPrice.Text));
       ProductsDL.editProductFromList(previous, updated);
       this.Close();
    }
    private void EditProductPanel_Load(object sender, EventArgs e)
    {
       txtName.Text = previous.Name;
       txtCatgeory.Text = previous.Category;
       txtColor.Text = previous.Color;
       txtAge.Text = previous.Age.ToString();
       txtPrice.Text = previous.Price.ToString();
    }
Time Form
public partial class Time: Form
  {
    public Time()
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```

```
InitializeComponent();
     }
     private void btnShowEndOfAuction_Click(object sender, EventArgs e)
     {
       string timePath = "timeInfo.txt";
       int days = int.Parse(txtDays.Text);
       int duration = days * 86400;
       TimeSpan t = (DateTime.UtcNow - new DateTime(1970, 1, 1));
       int timestamp = (int)t.TotalSeconds;
       TimeDL.auctionTime.Day = days;
       TimeDL.auctionTime.EnteredTime = timestamp;
       TimeDL.auctionTime.Duration = duration;
       TimeDL.storeintoFile(timePath);
       MessageBox.Show("The Auction will End in " + days + " Days");
    }
    private void btnBack_Click(object sender, EventArgs e)
       this.Close();
     }
  }
SalesReport Form
public partial class SalesReport : Form
    public SalesReport()
       InitializeComponent();
    private void btnBack_Click(object sender, EventArgs e)
```

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```
this.Close();
}
private void SalesReport_Load(object sender, EventArgs e)
{
    gvSalesReport.DataSource = ProductsDL.productsList;
    gvSalesReport.Columns["Quantity"].Visible = false;
    for (int i = 0; i < gvSalesReport.Rows.Count; i++)
    {
        if (gvSalesReport.Rows[i].Cells[6].Value.ToString()=="0")
        {
            CurrencyManager c = (CurrencyManager)BindingContext[gvSalesReport.DataSource];
            c.SuspendBinding();
            gvSalesReport.Rows[i].Visible = false;
        }
    }
}</pre>
```

## **Reviews Form**

```
Auction Management System GUI VERSION
```

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

## **ChangePassword Form**

```
public partial class ChangePassword : Form
  {
    public ChangePassword()
      InitializeComponent();
    }
     private void ClearDataFromForm()
       txtCurrentPassword.Text = "";
       txtNewPassword.Text = "";
       txtNewPassword2.Text = "";
    }
    private void ChangePassword_Load(object sender, EventArgs e)
    private void btnChange_Click(object sender, EventArgs e)
       string userPath = "userInfo.txt";
       string currentUserName = MyUserDL.currentUser.UserName;
       string currentPassword = MyUserDL.currentUser.UserPassword;
       string currentPassordEntered = txtCurrentPassword.Text;
       string newPassword = txtNewPassword.Text;
```

### **Auction Management System GUI VERSION**

```
string newPassword2 = txtNewPassword2.Text;
  if (currentPassword == currentPassordEntered)
    if (newPassword == newPassword2)
    {
      foreach (MyUserBL p in MyUserDL.userList)
      {
        if (currentUserName == p.UserName)
         {
           p.UserPassword = newPassword;
           MyUserDL.storeintoFile(userPath);
           MessageBox.Show("Password has been Changed");
         }
    else
      MessageBox.Show("New Passwords Do not Match");
    }
  }
  else
  {
    MessageBox.Show("Wrong Current Password Entered");
  }
  ClearDataFromForm();
private void btnBack_Click(object sender, EventArgs e)
```

}

{

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

## **UserMenu Form**

```
public partial class UserMenu: Form
  {
    public UserMenu()
      InitializeComponent();
    }
    private void btnTImeDate_Click(object sender, EventArgs e)
    {
      UserTimeShow form = new UserTimeShow();
      form.Show();
    }
    private void btnViewProducts_Click(object sender, EventArgs e)
    {
      ViewProducts form = new ViewProducts();
      form.Show();
    private void btnPlaceBid_Click(object sender, EventArgs e)
      PlaceBid form = new PlaceBid();
      form.Show();
    private void btnPayment_Click(object sender, EventArgs e)
      Payment form = new Payment();
      form.Show();
```

```
Auction Management System
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    }
    private void btnReview_Click(object sender, EventArgs e)
      WriteReview form = new WriteReview();
      form.Show();
    }
    private void btnChangePassword_Click(object sender, EventArgs e)
    {
      ChangePassword form = new ChangePassword();
      form.Show();
    }
    private void btnBack_Click(object sender, EventArgs e)
      this.Close();
    }
    private void UserMenu_Load(object sender, EventArgs e)
    {
    }
UserTimeShow Form
public partial class UserTimeShow: Form
    public UserTimeShow()
```

```
InitializeComponent();
}
```

```
private void UserTimeShow_Load(object sender, EventArgs e)
{
         TimeSpan t = (DateTime.UtcNow - new DateTime(1970, 1, 1));
  int userTime = (int)t.TotalSeconds;
  int diffSecs1 = userTime - TimeDL.auctionTime.EnteredTime;
  int diffSecs2 = TimeDL.auctionTime.Duration - diffSecs1;
  float diffDays = diffSecs2 / 86400.0F;
  int days = (int)diffDays;
  float decimalHours = diffDays - days;
  float durHours = decimalHours * 24.0F;
  int hours = (int)durHours;
  float decimalMins = diffSecs1 / 60.0F;
  float decimalMinutes = 60.0F - decimalMins;
  int mins = (int)decimalMinutes;
  if (diffSecs1 < TimeDL.auctionTime.Duration)
  {
    txtDays.Text = days.ToString();
    txtHours.Text = hours.ToString();
    txtMinutes.Text = mins.ToString();
  }
  else if (diffSecs1 > TimeDL.auctionTime.Duration)
  {
    MessageBox.Show("Auction has ended or it has not started yet!");
  }
}
private void btnBack_Click(object sender, EventArgs e)
  this.Close();
}
```

```
Auction Management System GUI VERSION
```

PlaceBid Form

}

```
public partial class PlaceBid: Form
  {
    public PlaceBid()
       InitializeComponent();
    }
    private void ClearDataFromForm()
    {
             txtProductName.Text = "";
       txtBid.Text = "";
    }
    private void btnPlaceBid_Click(object sender, EventArgs e)
       string productsPath = "productsInfo.txt";
       string name = txtProductName.Text;
       int bid = int.Parse(txtBid.Text);
       ProductsBL productSelected = ProductsDL.ifProducNameExists(name);
       if (productSelected == null)
       {
         MessageBox.Show("No Item with this name exists! Please Try Again!");
       }
       else
         bool checkBid = productSelected.ifBidIsHigher(bid, MyUserDL.currentUser.UserName);
         if (checkBid == true)
           MessageBox.Show("Item Sold!");
```

```
ProductsDL.storeintoFile(productsPath);
         }
         else
           MessageBox.Show("Bid is lower than Starting Price or Highest Bid! Please Try Again!");
         }
       }
       ClearDataFromForm();
    }
    private void btnBack_Click(object sender, EventArgs e)
    {
       this.Close();
    }
  }
Payment Form
public partial class Payment : Form
  {
    public Payment()
       InitializeComponent();
    }
    private void ClearDataFromForm()
       txtCardType.Text = "";
       txtCardNumber.Text = "";
      txtSecurityPin.Text = "";
     private void btnMakePayment_Click(object sender, EventArgs e)
```

```
{
       string cardType = txtCardType.Text;
       int cardNumber = int.Parse(txtCardNumber.Text);
       int securityPin = int.Parse(txtSecurityPin.Text);
             CardInfoBL m = new CardInfoBL(cardType, cardNumber, securityPin);
       bool status = CardInfoDL.isCardInfoValid(m);
       if (status == true)
       {
         MessageBox.Show("Payment Made!");
       }
      else
       {
         MessageBox.Show("Wrong Card information entered! Please try again!");
       }
      ClearDataFromForm();
    }
    private void btnBack_Click(object sender, EventArgs e)
    {
       this.Close();
    }
  }
WriteReview Form
public partial class WriteReview: Form
    public WriteReview()
      InitializeComponent();
    }
```

# Auction Management System GUI VERSION

```
private void ClearDataFromForm()
  txtReview.Text = "";
}
private void btnAddReview_Click(object sender, EventArgs e)
{
  string reviewPath = "reviewsInfo.txt";
  string review = txtReview.Text;
  string name = MyUserDL.currentUser.UserName;
  ReviewsBL s = new ReviewsBL(name, review);
  ReviewsDL.addReviewIntoList(s);
  ReviewsDL.storeintoFile(reviewPath);
  MessageBox.Show("Your Review has been Added");
  ClearDataFromForm();
}
private void btnBack_Click(object sender, EventArgs e)
  this.Close();
}
```