



e-Buy Antiques

(E-commerce Project)



Introduction

- Antique pieces are hard to find. You'd have to hit the flea market or go to specialty stores just to hunt for the authentic ones. And for some cases, antique stores and sellers are even harder to find. That's why online shopping is trending. It brings you almost everything you're looking for without you having to leave your comfort zone.
- e-Buy Antiques is an Online e-commerce application used for buying antique items online



Problem Definition

- Create an (B2C) E-commerce Web Application which enables customer to buy antique items of various categories online. Customer browses through list of categories i.e., Coins and Currency ,Jewellery, HandCraft,Arts & Paintings, Antique Shops, Sports Items, Porcelain Pottery, Furniture, filters, searches items to find their desired items.
- Customer adds items to cart and cart items are managed until customer “checkout” . Customer cannot place order until he is already a registered user or is already logged in. After customer places order, cart items are added to order and than payment is made.



Objectives for the System

- Providing global access of vintage items.
- Customer satisfaction and feedback.
- To provide customer,” value for their time and money.”
- Making buying vintage items easier through proper searching sorting, filtering of items from a list of categories.
- Providing Safe Online Payment transactions through Payment Gateway provided by e-commerce Applications.



Core Components - End-User/Customer

- Customer browses through a list of items, adds desired items to shopping cart and makes an order.
- Customer can make orders by providing all the necessary details like address ,email ,etc. They can also edit their personal information.



Core Components - Admin

- Admin can manage customers.
- Admin can manage Categories.
- Admin can manage Items.
- Admin can generate data analysis reports based on items sold.

Project Profile



Group No	ICA_6_15
Problem Statement:	e-Buy Antiques E-commerce Web Application
Components:	Front End: HTML/CSS/AJAX/JQUERY Backend: Asp.net with C# Database: SQL Server
Team details	Drashti Sanglani Roll No:123 Enrollment No: 185180686048 Dharman Shah – Roll No: 125 Enrollment No: 185180686050 Tapan Padaliya : Roll No:32 Enrollment No:185180686031
Project Duration	6 months
Internal Guide	Prof. Jinal Baxi



Advantages

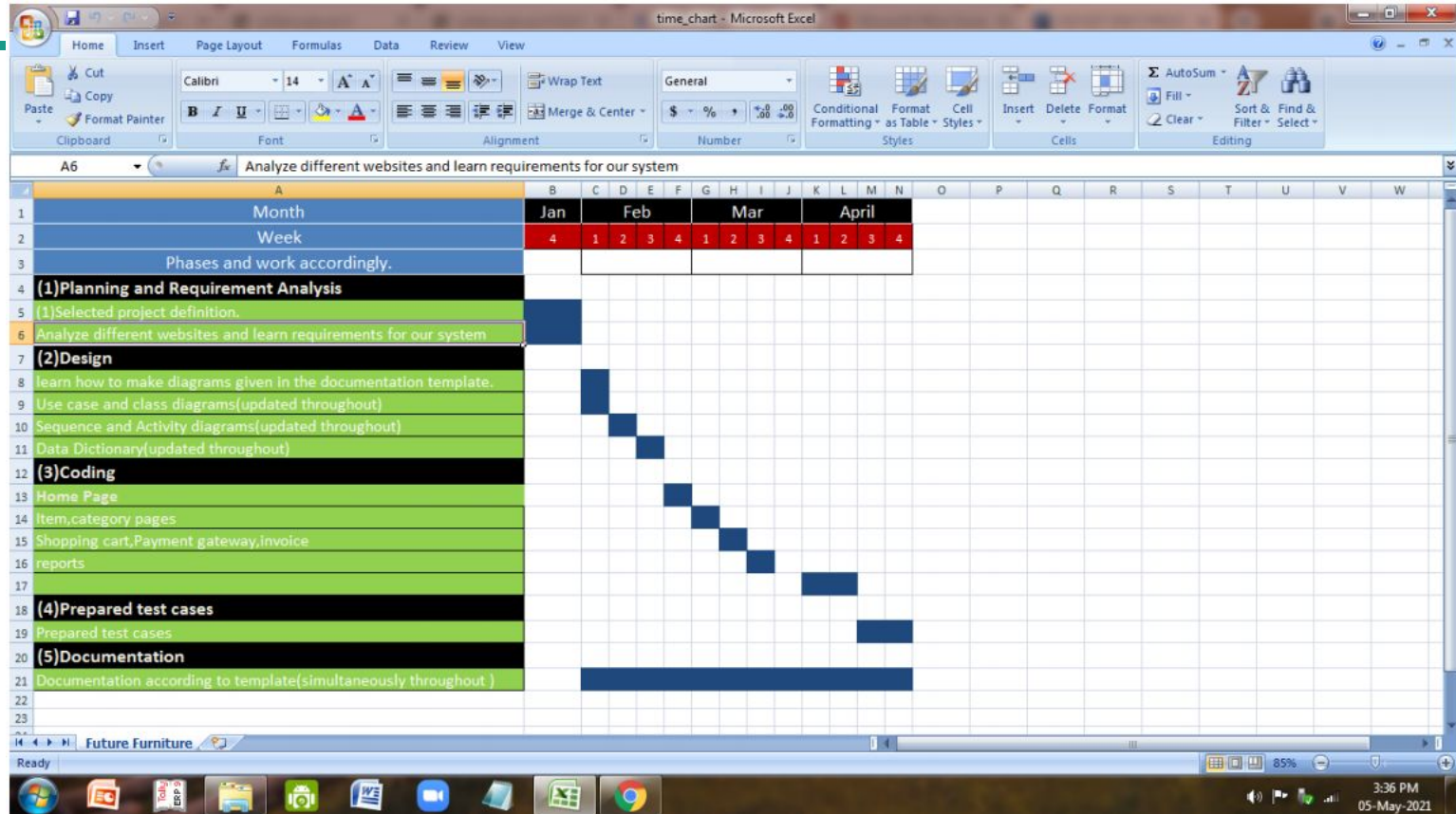
- Customer can filter items category wise
- The website is integrated with Paytm which enables secure payment transactions through SSL. Thus, enabling secure payment.
- Providing visual data analysis reports to understand which items are popular and which are not.



Limitations

- Product suitability: Buyers have to rely on electronic images to purchase products. Sometimes, when the products are delivered, the product may not match with electronic images. Finally, it may not suit the needs of the buyers. The lack of 'touch and feel' prevent buyers from online shopping

Proposed Time chart





Requirement Determination & Analysis

- The idea of creating an Antiques Shops e-commerce Web Application was decided by our team.
- Various references for understanding requirements for our system were online e-commerce systems like <https://www.rubylane.com/> , <https://gspawn.com/>, etc.

Requirement Specification (1)



Operating Systems	<ul style="list-style-type: none">• Windows 10• Windows 8, 8.1• Windows 7• Windows vista• Windows server 2008 and later
Hardware Environment	<ul style="list-style-type: none">• Processor: x86 or x64• RAM: 512 MB (minimum), 1 GB (recommended)• Hard disk: up to 5 GB of available space may be required. However, 500 MB free space is required in boot drive even if you are installing in other drive

Requirement Specification (2)

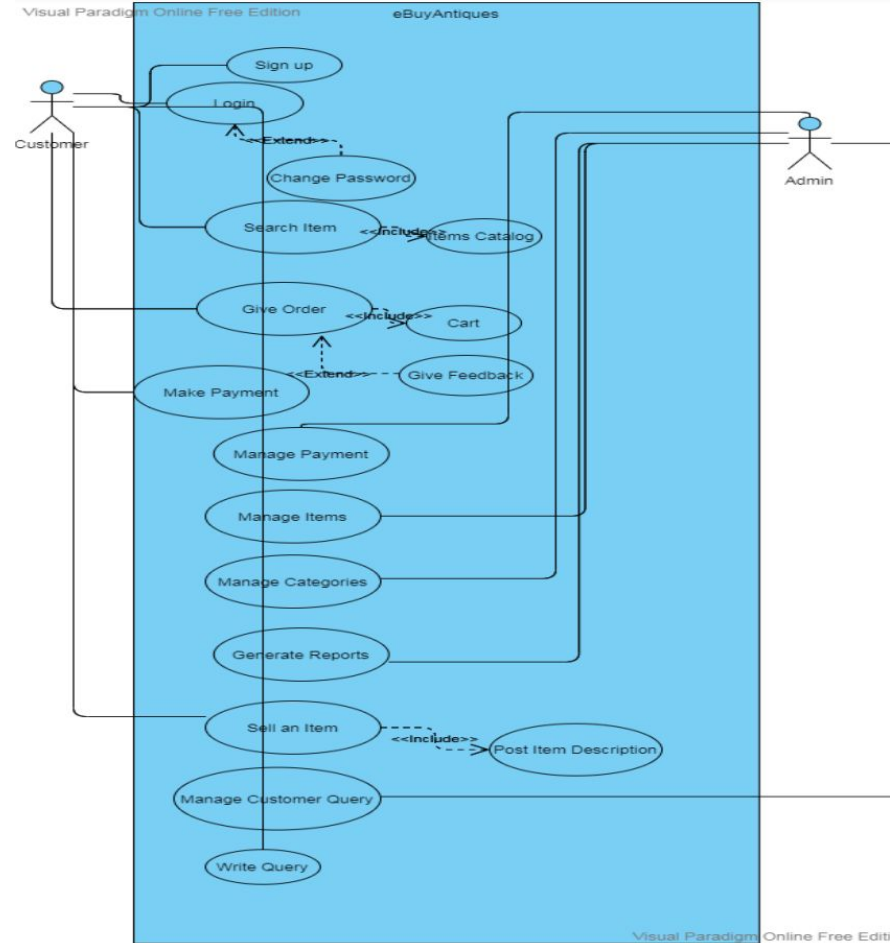


Web Browsers	<ul style="list-style-type: none">• Internet Explorer 8+• Microsoft Edge• Mozilla Firefox 22 +• Chrome 17 +• Opera 12 +• Safari 5 +
Development Environment	<ul style="list-style-type: none">• Microsoft Visual Studio 2010/2012/2013/2015/ 2017/2019• .NET core 3.0• Microsoft SQL Server 2005 or higher• Web browsers with JavaScript enabled

SYSTEM DESIGN

Use Case Diagram

Link :

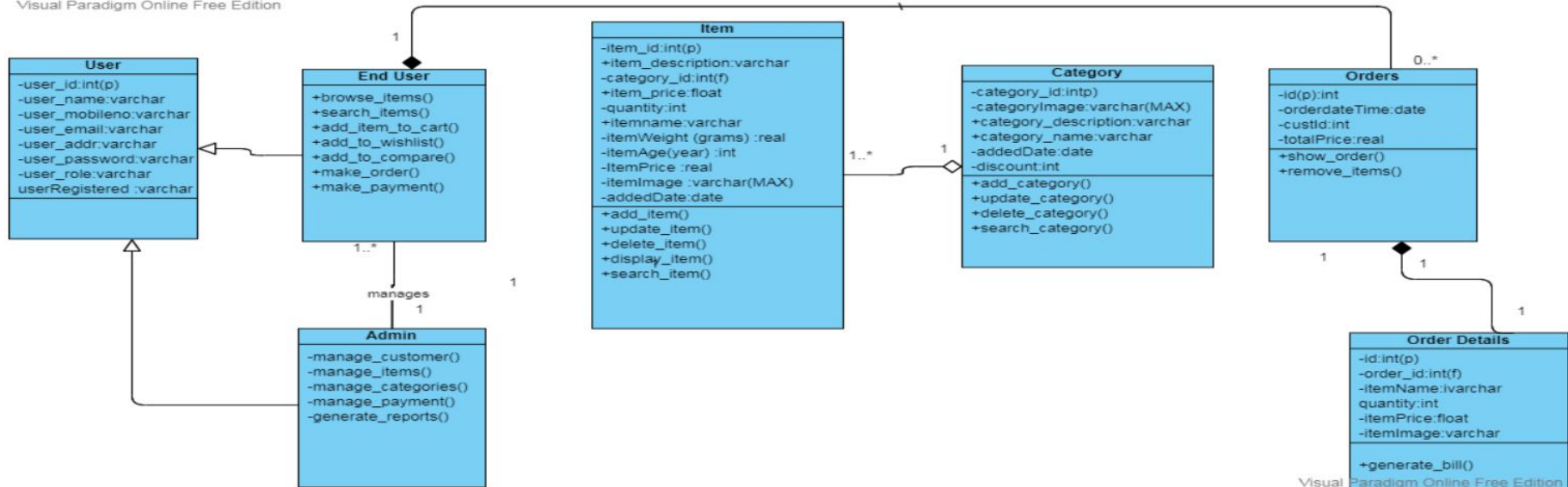


SYSTEM DESIGN

Class diagram

Link :

Visual Paradigm Online Free Edition

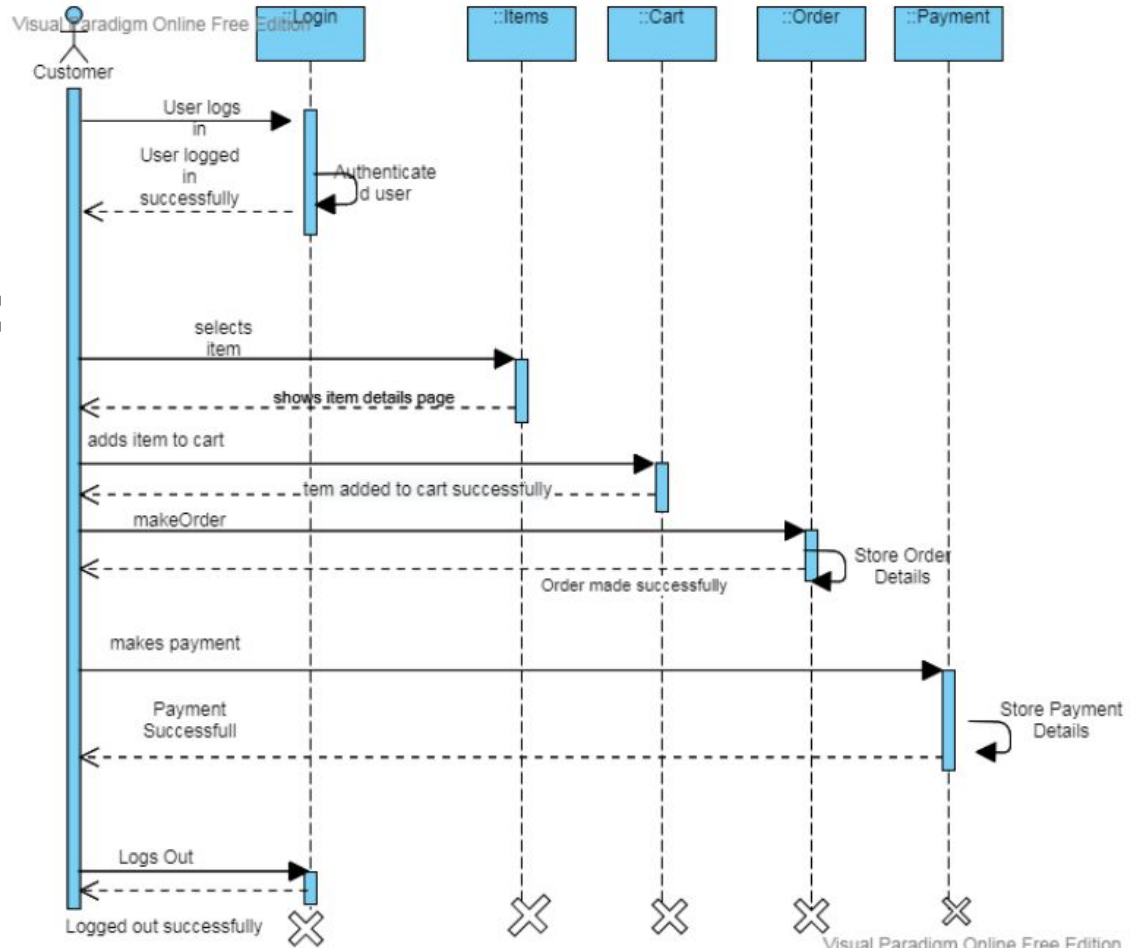


Visual Paradigm Online Free Edition

SYSTEM DESIGN

Sequence Diagram: Customers: make order

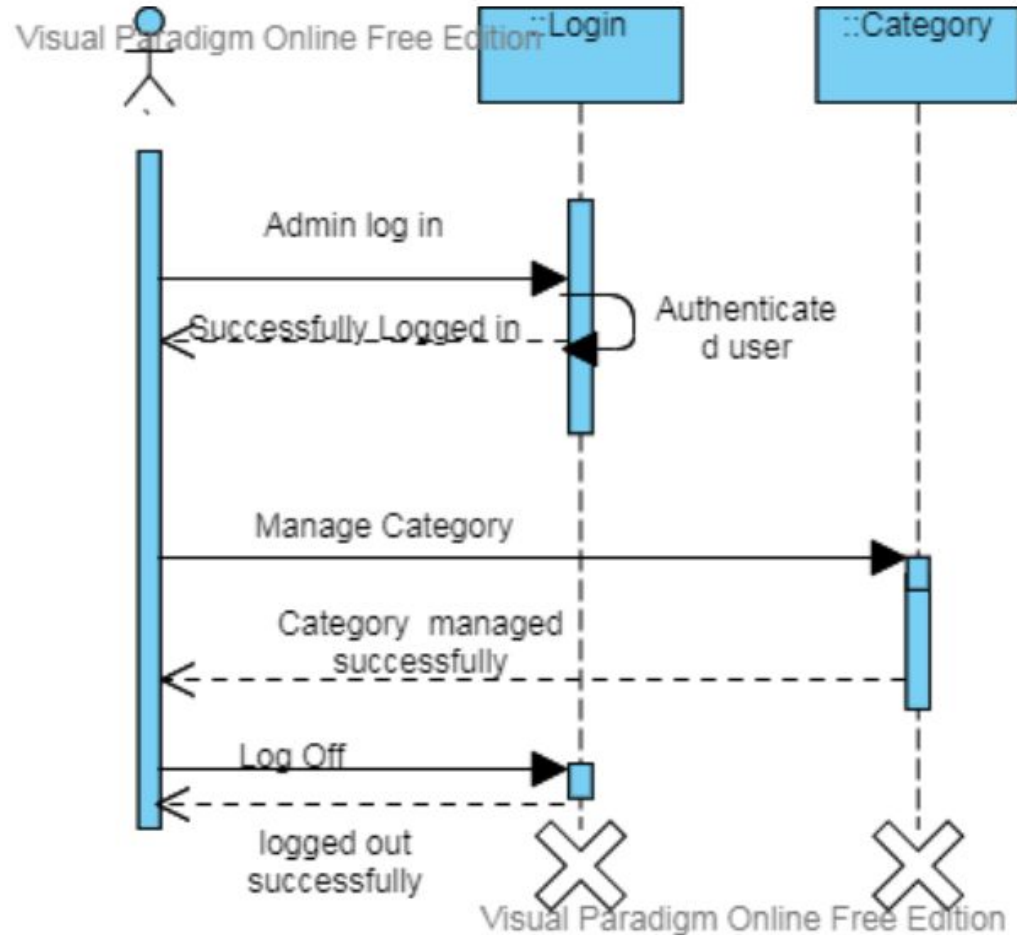
Link :



SYSTEM DESIGN

Sequence Diagram: Admin Manage Categories

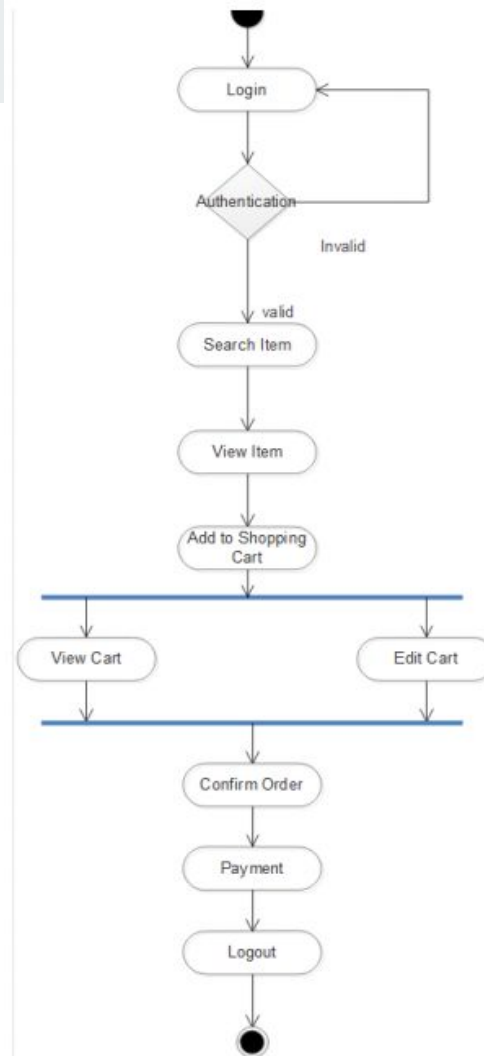
Link :




SYSTEM DESIGN

Activity Diagram: Shopping cart

Link :



Data Dictionary - User Master(1)




Field Name	Data Type	Constraint	Description	Sample Data
userId	int	Primary Key	User Id	123
userName	Varchar (30)	Not Null	User name	ABC
userRegistered	datetime	Not Null	User registered datetime	0000-00-00 00:00:00
IsAdmin	int	Not Null	Type of user.If set to true than the user is admin else customer.	Admin-0 EndUser-1.
userEmail	varchar(255)	Not Null	User Email id	abc@gmail.com

Data Dictionary - User Master (2)



Field Name	Data Type	Constraint	Description	Sample Data
userPassword	varchar(60)	Not Null	User Password	*****
userAddress	text	Not Null	User Address	vasna
userState	varchar(60)	Not Null	User State	Gujarat
userCity	varchar(60)	Not Null	User City	Ahmedabad

Data Dictionary - ItemMaster(1)



Field Name	Data Type	Constraint	Description	Sample Data
itemId	int	Primary Key	Item Code	123
itemName	varchar (30)	Not Null	Item Name	Sofa
itemDescription	text	Null	Item Description	This item is made
ItemWeight(grams)	real	Not Null	Item Weight	2KG
itemAge(year)	int	Not Null	Age of item	378days

Data Dictionary - ItemMaster (2)

Field Name	Data Type	Constraint	Description	Sample Data
ItemPrice	real	Not Null	itemPrice	3000
itemName	varchar (30)	Not Null	Item Name	Sofa
itemImage	varchar(MAX)	Not Null	Item image	-
addedDate	date	Not Null	Added date	23-01-2020
quantity	int	Not Null	Quantity	2

Data Dictionary - Category Master

Field Name	Data Type	Constraint	Description	Sample Data
categoryID	int	Primary Key	Category id	123
categoryName	varchar (30)	Not Null	Category name	Sofa
categoryDescription	varchar (255)	Not Null	Category description	This item is made
categoryImage	varchar(MAX)	Null	Image	
Discount(%)	int	Not Null.	Default 0 Discount	0

Data Dictionary - Orders

Field Name	Data Type	Constraint	Description	Sample Data
id	int	Primary Key	orderId	1234
custId	int	Foreign Key	Customer ID	122
categoryDescription	varchar (255)	Not Null	Category description	This item is made
totalPrice	real	Not Null	ITotal price	2222
orderDateTime	date	Not Null.	Datetime of order	0000-00-00 00:00:00

Data Dictionary - OrderDetails



Field Name	Data Type	Constraint	Description	Sample Data
id	int	Primary key	orderDetailsID	1
orderId	int	Foreign key(Order)	UserId	2
quantity	int	Not Null	Item quantity	1234
itemPrice	float	Not Null	Individual item prices	230
itemName	Varchar(50)	Not Null	Item's name	abc
itemImage	Varchar(MAX)	Not Null	Item image	

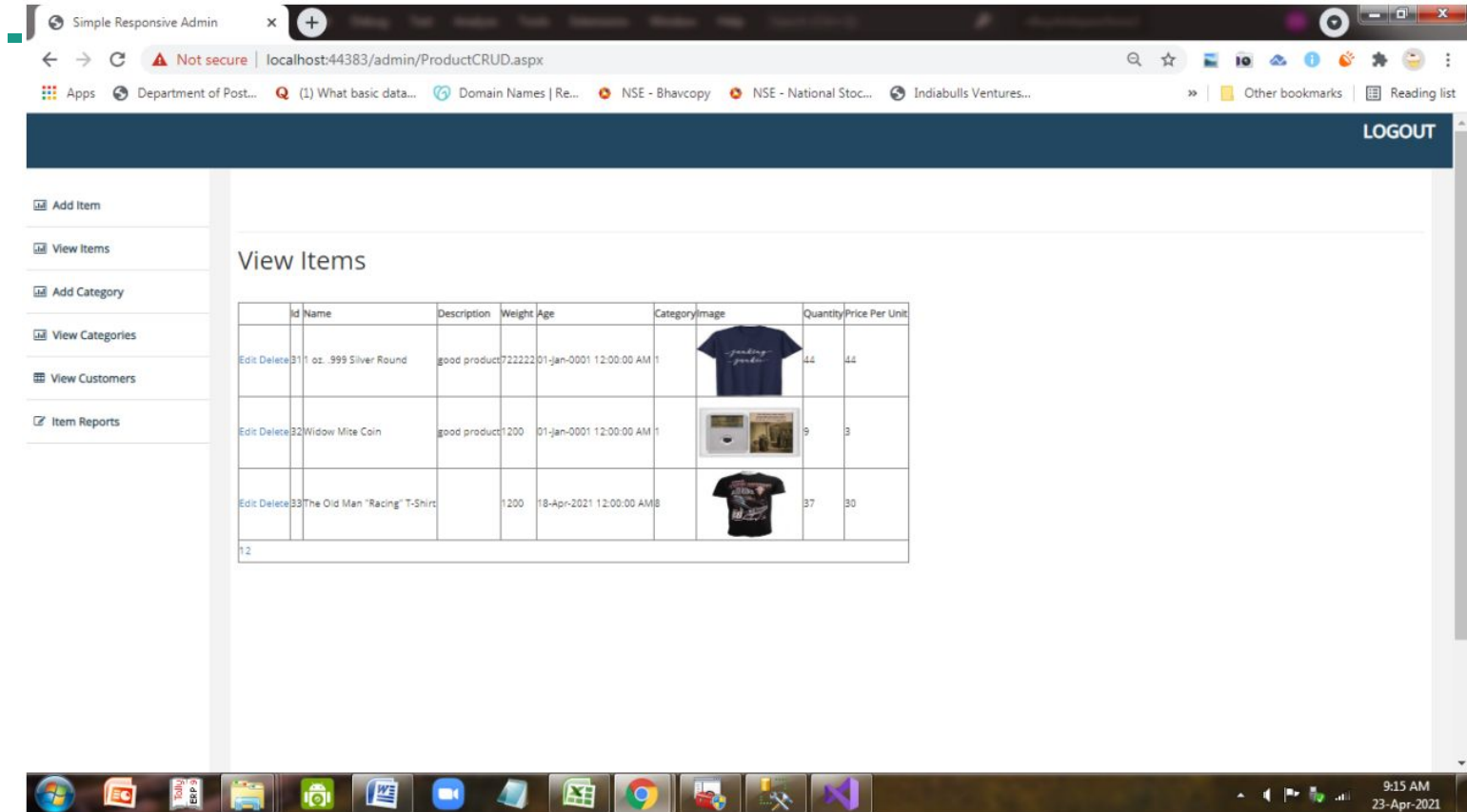
User Interface Design: View Customers

The screenshot shows a web browser window with the address bar displaying 'localhost:44383/admin/DisplayOrder.aspx'. The page title is 'Simple Responsive Admin'. The browser's address bar shows 'Not secure' and the URL 'localhost:44383/admin/DisplayOrder.aspx'. The page has a dark blue header with a 'LOGOUT' button. A sidebar on the left contains the following navigation links: 'Add Item', 'View Items', 'Add Category', 'View Categories', 'View Customers' (highlighted), and 'Item Reports'. The main content area is titled 'View Customers' and displays a table with customer information.




Customer ID	Customer Name	Customer Email	Customer Address	Customer City	Customer State	Order Details
20	dhvanit shah	dh@gmail.com	downtown	new york	gujarat	Full Order
19	dharman wohoo	d@gmail.com	vasna	Ahmedabad	Gujarat	Full Order
17	dharman wohoo	d@gmail.com	vasna	Ahmedabad	Gujarat	Full Order
16	dhvanit shah	dh@gmail.com	downtown	new york	gujarat	Full Order
14	another demo	d123@gmail.com	dd	dd		Full Order
13	dhvanit shah	dh@gmail.com	downtown	new york	gujarat	Full Order
12	dhvanit shah	dh@gmail.com	downtown	new york	gujarat	Full Order

The Windows taskbar at the bottom shows the time as 9:16 AM on 23-Apr-2021. The taskbar includes icons for various applications, including the Start menu, File Explorer, Google Chrome, and several other utility and development tools.

User Interface Design: View Items



The screenshot shows a web application interface for viewing items. The browser address bar indicates the URL is `localhost:44383/admin/ProductCRUD.aspx`. The page has a dark blue header with a **LOGOUT** link. A sidebar on the left contains navigation links: **Add Item**, **View Items** (selected), **Add Category**, **View Categories**, **View Customers**, and **Item Reports**. The main content area is titled **View Items** and displays a table with the following data:

	ID	Name	Description	Weight	Age	Category	Image	Quantity	Price Per Unit
Edit Delete	31	1 oz. 999 Silver Round	good product	722222	01-jan-0001 12:00:00 AM	1		44	44
Edit Delete	32	Widow Mite Coin	good product	1200	01-jan-0001 12:00:00 AM	1		9	3
Edit Delete	33	The Old Man "Racing" T-Shirt		1200	18-Apr-2021 12:00:00 AM	8		37	30

At the bottom of the table, there is a page number **12**.

User Interface Design: Add Item

Simple Responsive Admin

localhost:44383/admin/AddItem.aspx

LOGOUT

Apps Department of Post... (1) What basic data... Domain Names | Re... NSE - Bhavcopy NSE - National Stoc... Indiabulls Ventures...

Other bookmarks Reading list

Add Category

View Categories

View Customers

Item Reports

Product : Enter Product Name

Category: demo

Crafted On: April 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Product Weight(grams): Enter Product Weight

Product Price(Rs): Enter Product Price

Product Description: Enter Product Description

Product quantity: Enter Product quantity

Upload Image: Choose File No file chosen

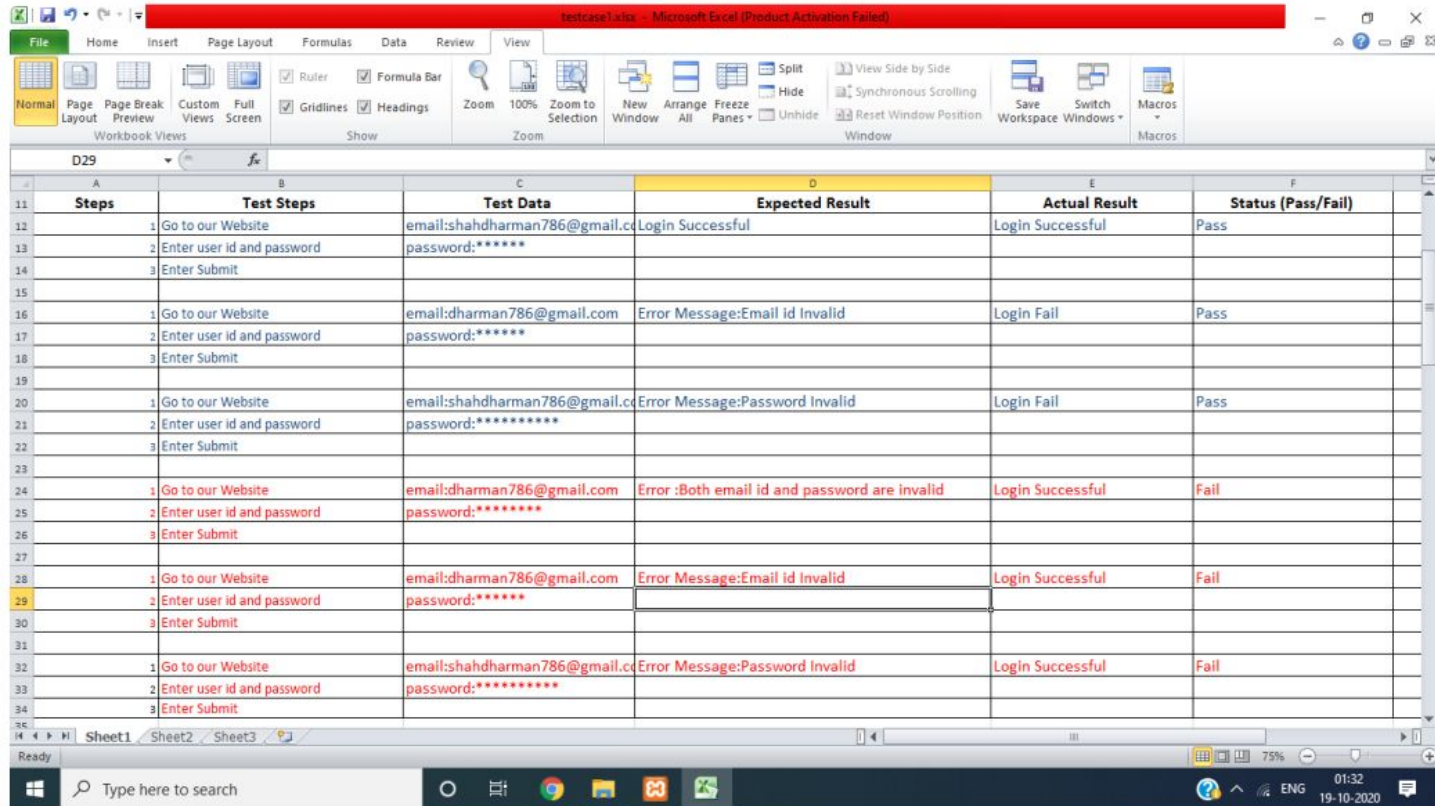
Upload

9:15 AM 23-Apr-2021

Test Case (1) Test Case for Login Validation

1	Test Case ID:	LoginTC1	Test Case Name:	Test Case For Login Validation
2	Designed by:	Dharman Shah	Designed Date:	20-09-2020
3	Module Name:	Login1A	Sub Module Name:	Login Validation
4	Executed by:	Tapan Padaliya	Execution Date:	23-09-2020
5	Brief Description:	Login Successful or not	Test Priority (Low/Medium/High)	High
6				
7	Pre-conditions:	Valid User Account		
8	Dependencies:	wp_user		

Test Case (1) Test Case for Login Validation



The screenshot shows a Microsoft Excel spreadsheet titled "testcase1.xlsx - Microsoft Excel (Product Activation Failed)". The spreadsheet contains a table with 6 columns: Steps, Test Steps, Test Data, Expected Result, Actual Result, and Status (Pass/Fail). The table lists 10 test cases for login validation, each with 3 steps: "Go to our Website", "Enter user id and password", and "Enter Submit". The test data includes email addresses and passwords. The expected results are "Login Successful", "Error Message:Email id Invalid", "Error Message:Password Invalid", and "Error :Both email id and password are invalid". The actual results are "Login Successful" or "Login Fail". The status is "Pass" or "Fail".

Steps	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Go to our Website	email:shahdharman786@gmail.co	Login Successful	Login Successful	Pass
2	Enter user id and password	password:*****			
3	Enter Submit				
1	Go to our Website	email:dharman786@gmail.com	Error Message:Email id Invalid	Login Fail	Pass
2	Enter user id and password	password:*****			
3	Enter Submit				
1	Go to our Website	email:shahdharman786@gmail.co	Error Message:Password Invalid	Login Fail	Pass
2	Enter user id and password	password:*****			
3	Enter Submit				
1	Go to our Website	email:dharman786@gmail.com	Error :Both email id and password are invalid	Login Successful	Fail
2	Enter user id and password	password:*****			
3	Enter Submit				
1	Go to our Website	email:dharman786@gmail.com	Error Message:Email id Invalid	Login Successful	Fail
2	Enter user id and password	password:*****			
3	Enter Submit				
1	Go to our Website	email:shahdharman786@gmail.co	Error Message:Password Invalid	Login Successful	Fail
2	Enter user id and password	password:*****			
3	Enter Submit				

Test Case (2) Test Case for Registration Validation

Test Case ID:	RegistrationTC1	Test Case Name:	Test Case For Registration Validation
Designed by:	Dharman Shah	Designed Date:	20-09-2020
Module Name:	Registration1A	Sub Module Name:	Registration Validation
Executed by:	Tapan Padaliya	Execution Date:	23-09-2020
Brief Description:	check whether the email is already taken or invalid,if not register successfully.	Test Priority (Low/Medium/High)	High
Pre-conditions:	Valid Url		
Dependencies:	wp_user		

	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
48	Go to our Website	email:shahdharman17@gmail.co	Login Successful	Login Successful	Pass
49	Enter user id and password	password:*****			
50	Enter Submit				
51					
52	Go to our Website	email:shahdharman786@gmail.co	Error Message:email already taken	As Expected	Pass
53	Enter user id and password	password:*****			
54	Enter Submit				
55					
56	Go to our Website	email:shahdharman786@gmail.co	Error Message:email already taken	Login Successful	Fail
57	Enter user id and password	password:*****			
58	Enter Submit				
59					

Test Case (3) Test Case to Search an Item

63	Test Case ID:	SearchItemsTC1	Test Case Name:	Test Case to Search an item
64	Designed by:	Dharman Shah	Designed Date:	20-09-2020
65	Module Name:	SearchItem1A	Sub Module Name:	Item Search
66	Executed by:	Tapan Padaliya	Execution Date:	23-09-2020
67	Brief Description:	Check if search results work properly.If no items match it must show "no items available" message.	Test Priority (Low/Medium/High)	High
68	Pre-conditions:	Logged in and Valid Url		
69	Dependencies:	wp_product		

Steps	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Go to our Website	Search:SunShine M	Search Result:Sunshine Mint Buffalo	As Expected	Pass
2	Login and direct to Category "Coins and Currency "				
3	Search an item in respective category				
1	Go to our Website	Search:SunShine M	Search Result:Sunshine Mint Buffalo	Search Result:"No items available" message	Fail
2	Login and direct to Category "Coins and Currency "				
3	Search an item in respective category				
1	Go to our Website	Search:"Hello world"	Search Result:"No items available" message	Search Result:"No items available" message	Pass
2	Login and direct to Category Page.				
3	Search an item in respective category				

Test Case (4) Add item to cart

Test Case ID:	AddItemCartTC1	Test Case Name:	Test Case to Add Item to Cart
Designed by:	Dharman Shah	Designed Date:	20-09-2020
Module Name:	AddItemCart1A	Sub Module Name:	AddItemCart
Executed by:	Tapan Padaliya	Execution Date:	23-09-2020
Brief Description:	Check if item not added to cart when not having enough stocks.	Test Priority (Low/Medium/High)	High
Pre-conditions:	Logged in and Valid Url		
Dependencies:	wp_Item		

Steps	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
94	1 Go to our Website	Sunshine Mint Buffalo	Error Message:Not enough quantity	As Expected	Pass
95	2 GO to any category and select an item	Quantity:200000000			
96	Add to cart with quantity more than				
97	3 available				
98					
99	1 Go to our Website	Sunshine Mint Buffalo	Error Message:Not enough quantity	Added to Cart Successfully	Fail
100	2 GO to any category and select an item	Quantity:200000000			
101	Add to cart with quantity more than				
	3 available				



Proposed Enhancements

Online Auctions: Virtual auctions on the internet. The seller sells the products or service to the bidders who bids the highest.

Only registered online bidders are able to bid against other registered online bidders. These auctions usually have the notation that reads “Online only.”

-We may include Advanced features like online-auctions, chatbox, filtering of reports based on item names , Discount based on category and date etc. in the future.

Live chat- rooms are the quickest method of customer service. Responding faster to a lead or a potential customer is going to leave a better impression than making new customers (or any customers) wait around



Conclusion

- Customer registers using valid URL or logs in if already registered and searches for their desired items/categories.
- Desired items are then added to cart and checkout to make order with PayPal as payment gateway.
- To implement this as a web application we used “Asp .net” as the Technology.
- SQL Server was used as back-end database since it is one of the most popular open source databases, and it provides fast data access, easy installation and simplicity



Bibliography

In this document we have covered the introduction, Reference Websites:

We used this websites to analyze how to create a Asp .net C# Antique Shop Website.

<https://www.rubylane.com/>

<https://gspawn.com/>