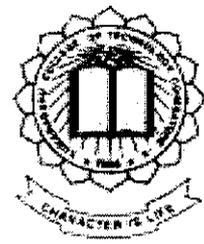


P-2723



**BUSINESS TO CONSUMER ELECTRONIC COMMERCE PORTAL**

By

**NANDHAKUMAR.D**

Register Number: **71206621034**

Of

**KUMARAGURU COLLEGE OF TECHNOLOGY**

**COIMBATORE-6**

**A PROJECT REPORT**

Submitted to the



**FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING**

*In partial fulfillment of the requirements  
for the award of the degree  
of*

**MASTER OF COMPUTER APPLICATIONS**

**ANNA UNIVERSITY  
CHENNAI 600 025**

*June 2009*

**BONAFIDE CERTIFICATE**

Certified that this project report titled **Business To Consumer Electronic Commerce Portal** is the bonafide work of **Mr. Nandhakumar.D.** (Register Number: **71206621034**) who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

*Gulab*  
29/6/09  
**Project Guide**

*[Signature]*  
**Head of the Department**

Submitted for the University Examination held on 06-07-09

*[Signature]*  
6/7/09  
**Internal Examiner**

*[Signature]*  
6/7  
**External Examiner**



**Cognizant**

**Cognizant Technology Solutions India Private Ltd.**

Mountain Mist Campus, Unit -1, STPI - IT Park,

No.363, KGISL Campus, Thudiyalur Road,

Coimbatore - 641035

Phone : (+91-0422) 3923000

Fax : (+91-0422) 3923060

[www.cognizant.com](http://www.cognizant.com)

## To whomsoever it may Concern

This is to certify that **Mr. Nandha Kumar** a student of **Kumaraguru College of Technology** had undergone a project titled **BUSINESS TO CONSUMER ELECTRONIC COMMERCE** at **Cognizant Technology Solutions India Pvt.Ltd** under the guidance of **Mrs Manjula.R** (Assistant Manager Projects).

The duration of the project was from 01/11/08 and 01/05/09.

We wish him all the success for his future endeavors

For **Cognizant Technology Solutions India Pvt. Ltd.**

**Sunil Kumar C**  
Human Resources

May 10, 2009

## ABSTRACT

### **B2C E-COM (Business To Consumer Electronic Commerce)**

**PORTAL** is a full featured Ecommerce and shopping cart component designed using ASP.NET. This product provides a complete Ecommerce solution for online purchase. B2C E-COM PORTAL gives the tools needed to meet the ever-changing demands of the Ecommerce marketplace. B2C provides both a clean development environment for owner and an intuitive shopping experience for customers. B2C is more than a shopping cart and provides a comprehensive, high performance, Ecommerce framework.

B2C E-COM helps to maintain the details of the customer, products and dealers details in full fledged security. Unauthorized persons cannot access the data. The transactions are kept online, so that there is fast completion of the transaction process available. The communication between the user and admin are made easy through the online chatting. The queries can be passed and replies can be got without any delay. The email with attachment provides secured file transformation from the admin to the user and the vice versa. The instance updating of product data is also available. No more high man power is needed to maintain the system

The purpose of this project is to provide a complete Electronic Commerce solution for online purchase. It also provides information like customer details, product details, bank name, card type and easy way of communication with the end user and also the B2C is more than a shopping cart and provides a comprehensive, high performance, Ecommerce framework. This B2C E-COM PORTAL will increase the efficiency and decrease the time involved for manual involvement in maintaining the sales details. The proposed system is computerized, thereby useful in marketing and improvement of the business.

## ACKNOWLEDGEMENT

First and foremost I thank God for his good will and blessings showered on me throughout the project. The success of this project needs cooperation and encouragement from different quarters.

I wish to express my deep unfathomable feeling of gratitude and indebtedness to **Professor R.Annamalai**, Vice Principal, Kumaraguru College of Technology, **Coimbatore** for the successful completion of the project work.

I am very gladly taking this opportunity to express a special word of thanks to **Dr.S.Thangasamy**, Dean, Department of Computer Science Engineering and to **Dr.M.Gururajan**, Head, Department of Computer Applications, Kumaraguru College of Technology, **Coimbatore** for encouraging me to do this work.

I am very much indebted to **Ms.V.Geetha**, Project Guide and Coordinator, Kumaraguru College of Technology, Coimbatore, for her complete assistance, guidance and support given to me throughout my project.

It's always a pleasure and privilege to be associated with a prestigious outstanding esteemed organization "**Cognizant**", Coimbatore.

My hearty thanks to my Guide **Mrs.Majula.R**, Assistant Project Manager, **Cognizant**, for her valuable guidance throughout the project. Also, I am grateful to my parents and friends who were the real source of my project.

## TABLE OF CONTENT

<b>Abstract</b>	<b>iii</b>
<b>List of Tables</b>	<b>iv</b>
<b>List of Figures</b>	<b>vii</b>
<b>List of Abbreviations</b>	<b>ix</b>
<b>1 Introduction</b>	
1.1 Objective of the project	01
1.2 Organization Profile Abstract	02
<b>2 System Requirements Specification</b>	
2.1 Hardware Environment	03
2.2 Software Environment	03
2.3 Software Overview	04
<b>3 System Analysis</b>	
3.1 Existing system	07
3.1.1 Drawback of Existing System	07
3.2 Proposed system	08
3.2.1 Benefits of Proposed System	08
<b>4 System Design</b>	
4.1 Element of design	09
4.1.1 Input design	09
4.1.2 Output design	11
4.1.3 Database design	12
4.2 Use case diagram	19
4.3 Sequence diagram	21
4.4 Activity diagram	23

<b>5</b>	<b>System Testing and Implementation</b>	
5.1	Test Plan	24
5.2	Type of Testing	25
5.2.1	Unit Testing	25
5.2.2	Integration Testing	25
5.3	System Implementation	26
<b>6</b>	<b>Conclusion and Future Enhancement</b>	27
6.1	Conclusion	27
6.2	Future Enhancement	27
	<b>Appendix</b>	28
	<b>References</b>	44

**LIST OF TABLES**

<b>Table No</b>	<b>Table Name</b>	<b>Page Number</b>
4.1	Admin	14
4.2	Customerreg	14
4.3	Products	15
4.4	Orders	16
4.5	Dealer	16
4.6	Emailadmin	17
4.7	Emailcust	18

## LIST OF FIGURES

<b>Fig No</b>	<b>Figure Name</b>	<b>Page Number</b>
4.1	Data Relationship Diagram	13
4.2	Use case diagram – Admin module	19
4.3	Use case diagram – customer module	20
4.4	Sequence diagram – customer module	21
4.5	Sequence diagram – Admin module	22
4.6	Activity diagram	23
A.1	User Login Page	28
A.2	Customer Registration Form	29
A.3	Customer Information Update Form	30
A.4	Product View Form	31
A.5	Customer Order Form For Bags	32
A.6	Customer Order Form	33
A.7	Dealers Details View	34
A.8	E-Mail Send Form	35
A.9	Chat Room	36
A.10	Chat Page	37
A.11	Administrator Login	38
A.12	Products Details Updating	39
A.13	Customer Order Details View	40
A.14	Billing Entry Form	41
A.15	Dealers Details Entry From	42
A.16	E-Mail From Customer	43

**LIST OF ABBREVIATIONS**

<b>Abbreviations</b>	<b>Explanations</b>
B2C	Business to consumer
E-COM	Electronic commerce
CRM	Customer Relationship Maintenance
HTTP	Hyper Text Markup Language
CSS	Cascading Style Sheet
SQL	Structured Query Language
XML	Extensible Markup Language
ER	Entity Relationship

## CHAPTER 1

### INTRODUCTION

#### 1.1 OBJECTIVE OF THE PROJECT

**B2C E-COM PORTAL** is a full featured Ecommerce and shopping cart component designed using ASP.NET. This product provides a complete Ecommerce solution for online purchase. B2C E-COM PORTAL gives the tools needed to meet the ever-changing demands of the Ecommerce marketplace. B2C provides both a clean development environment for owner and an intuitive shopping experience for customers. B2C is more than a shopping cart and provides a comprehensive, high performance, Ecommerce framework.

B2C E-COM helps to maintain the details of the customer, products and dealers details in full fledged security. Unauthorized persons cannot access the data. The transactions are kept online, so that there is fast completion of the transaction process available. The communication between the user and the admin are made easy through the online chatting. The queries can be passed and replies can be got without any delay. The email with attachment provides secured file transformation from the admin and the user and vice versa. The instance updating of data is also available. No more high man power is needed to maintain the system

The purpose of this project is to provide a complete electronic commerce solution for online purchase. It also provides information like customer details, product details, bank name, card type, easy way of communication with the end user and also the B2C is more than a shopping cart and provides a comprehensive, high performance, Ecommerce framework. This B2C E-COM PORTAL will increase the efficiency and decrease the time involved for manual involvement in maintaining the sales details. The proposed system is computerized, thereby useful in marketing and improvement of the business.

## **1.2 ORGANIZATION PROFILE**

Cognizant is a different kind of offshore outsourcing company. They bring you the best of both worlds: the savings and superior quality of offshore development, and the immediacy and trust of a local company.

They deliver the full range of application outsourcing, business process, and consulting & systems integration services that you expect. And, because of our background serving the Global 2000, They are experts at managing the highly complex, long-term engagements that our clients require. Unlike our rivals, They work, not from contract to contract, but in long-term partnerships with our customers.

They are financially strong with \$150m in cash, and good profit margins. In October 2003 we topped Forbes list of “hotshots” as the number one company. They are audited and certified to BS 7799, the set of international regulations governing physical and network security, and are well-experienced in working with clients that implement their own U.S. standards. They are routinely audited for security by our own clients, and routinely enforce their U.S.-level standards wherever the work is performed. They can help you gain the benefits of a world-class staff, whose quality and process disciplines have achieved ISO 9001 and SEI CMM Level 5 certifications. However, They go much further than achieving the certifications that are expected of offshore service providers.

## **CHAPTER 2**

### **SYSTEM REQUIREMENT SPECIFICATION**

The Software Requirement Specification is a technical specification of requirements for the software product. The goal of software requirements definition is to completely specify the technical requirements for the software products in a concise and unambiguous manner

#### **2.1 HARDWARE ENVIRONMENT**

The hardware support required for deploying the application is

- Processor : Intel Pentium III or Above
- RAM : 256 MB
- Memory : 64 Megabytes
- Hard Disk : 20 GB

#### **2.2 SOFTWARE ENVIRONMENT**

The software support required for deployment is

- Operating System : Windows 98/2000/XP/NT
- Server side Script : ASP.NET
- Back-End Tool : SQL Server
- Browser : Internet Explorer 5.0

## **2.3 SOFTWARE OVERVIEW**

### **2.3.1 VB.Net Framework**

VB.Net is a simple, type-safe, object-oriented, general-purpose programming language. It provides code-focused developers with powerful tools and language support to build rich, connected Web and client applications on the .NET Framework.

#### **2.3.1.1 VB.Net overview**

- Visual basic .Net 2005 is the modern, innovative programming language and tool for building .NET-connected software for Microsoft Windows, the Web, and a wide range of devices.
- It is a flexible integrated development environment (IDE), and the capability to build solutions across a variety of platforms and devices, Visual basic .Net 2005 significantly eases the development of .NET-connected software.

#### **2.3.1.2 Features of VB.Net**

- VB .Net is a modern and intuitive object-oriented programming language that offers significant improvements, including a unified type system, "unsafe" code for maximum developer control, and powerful new language constructs easily understood by most developers.
- .NET Framework class library to gain powerful built-in functionality, including a rich set of collection classes, networking support, multithreading support, string and regular expression classes, and broad support for XML, XML schemas, XML namespaces, XSLT, XPath, and SOAP.
- Using Visual Basic.Net 2005, developers can construct powerful Web services that encapsulate business processes and make them available to applications running on any platform.

- Visual Basic.Net 2005 also enables developers to build the next generation of Windows-based applications. With visual inheritance, developers can greatly simplify the creation of Windows-based applications by centralizing in parent forms the common logic and user interface for their entire solution.
- With native support for the .NET Compact Framework, mobile Web devices, and embedded applications available as part of Visual Studio 2005 Professional Edition, VB.Net developers can now target a wide variety of mobile devices, including Pocket PCs, mobile phones, and devices powered by the Windows CE operating system. Programmers can become immediately productive by using the same programming model and tools for creating powerful device-based software as they use for building robust Windows- and Web-based solutions.

### **2.3.2 SQL SERVER 2000**

Microsoft SQL Server 2000 provides a new Management Studio, integration with Visual Studio 2005, and the Microsoft .NET common language runtime - all of which help you build, debug, and operate applications faster and more efficiently. SQL Server 2000 Management Studio Express, for easily managing your database. Best of all, as your needs grow; your applications will seamlessly work with the rest of the SQL Server product family.

#### **2.3.2.1 Overview of SQL Server 2000**

Extending the strengths of SQL Server 2000, SQL Server 2000 provides an integrated database management and analysis solution that can help developers to do the following

- Build, deploy, and manage enterprise applications that are more secure, scalable, and reliable.
- Maximize IT productivity by reducing the complexity of developing and supporting database applications.
- Share data across multiple platforms, applications, and devices to make it easier to connect internal and external systems.
- Control costs without sacrificing performance, availability, scalability, or security.

### **2.3.2.2 Features of SQL Server 2000**

SQL SERVER 2005 provides statements for a variety of tasks, including

- Querying data
- Inserting, updating, and deleting rows in a table
- Creating, replacing, altering, and dropping objects
- Controlling access to the database and its objects
- Guaranteeing database consistency and integrity
- Supports PL/SQL

## CHAPTER 3

### SYSTEM ANALYSIS

System Analysis is the process of understanding a problem domain and the user requirements for the purpose of developing a computer application system to serve the users.

#### 3.1 EXISTING SYSTEM

The existing system is being done manually. Each transaction is entered in a separate voucher (a record of transaction). At closing of each transaction, the data available in the voucher were posted into separate files. This process of creation in a particular report consumes such time, since searching through the voucher book and entering the same data for the second time in the general voucher is time consuming process. The process can be prone to resulting in errors and in duplication of data. Apart from tedious process, there is a chance for missing data and reports.

##### 3.1.1 Limitations of existing system

The following are the limitations of the existing system :

- Time consuming and tedious process
- Lots of papers has be maintained
- Time delay
- Wastage of human resources
- Record maintenance becomes difficult

## **3.2 PROPOSED SYSTEM**

B2C E-COM helps you maintain the details of the customer, products and dealers details in full fledged security. Unauthorized persons cannot access the data. The transactions are kept online, so that there is fast completion of the transaction process available.

The communication between the used and admin are made easy through the online chatting. The queries can be passed and replies can be getting without any delay. The email with attachment provides secured file transformation from the admin and the user and vice versa. The instance updating of data is available. No more high man power is needed to maintain the system.

The difficulties of the existing system and their requirements and the new system are developed with the following Advantages:

### **3.2.1 Advantages of proposed system**

The following are the advantages of the proposed system :

- Easy to maintain and manipulate records
- Complete online transaction
- Faster sales and service
- Easy communication because of chat and email
- Quick response time

## CHAPTER 4

### SYSTEM DESIGN

System design is the most creative and challenging phase in the life cycle of system development. The first step to determine is what input data is needed to form the system and the database that has to be designed should meet the requirement of the proposed system. The next step is to determine how and in what format the output is produced.

#### 4.1 ELEMENTS OF DESIGN

The following are the elements of the system design.

- Input design
- Output design
- Database design

##### 4.1.1 Input design

The input design is the process of converting the user-oriented inputs into computer-based format. The goal of designing input data is to make the automation as easy and free from errors as possible. The requirements of input design such as user friendliness, consistent format and interactive dialogues for giving the right message and help for the user at right time are also considered for development of the project.

The input forms used in this system are:

- a. Registration and updating:** This module enters the details of the customer name, address, phone number, the password required, the email address, the bank name for providing transactions, the card type and pan number of the customer. After registration, the customer is provided with a login name and password, using which he can access his details. The customer can update his details if needed when he logs in.
- b. Order entry:** After selecting the products, the customer can enter the order form with the details such as the product that to be ordered, the quantity required, the ordered date and expected date of delivery
- c. Email sending and inbox maintenance:** The customer sends the queries and replies through emails. This is useful for immediate contact with the administrator. The emails send by the administrator are maintained by the customer for further references.
- d. Chat page:** This module is an added advantage for the project. This module is used to provide online communication between the customer and the administrator, so that they can have clear conversation for the transaction to be done.
- e. Product entry and updating:** The administrator provides the details of the products available in various categories. The product details such as product id, the product name, stock in hand and price is kept updated by the administrator.
- f. Bills entry and updating:** The administrator creates the invoice details for the product order by the customer. The module has the details of the ordered quantity, the price for each product; the tax charges and total billing amount and sent to customer immediately.
- g. Dealers details entry:** The administrator provides the details of the various details of his dealers available, so that the dealers of that particular region can quickly deliver to the customer as soon as possible. Refer the figures in appendix for input design.



#### 4.1.2 Output design

The outputs are mainly used to communicate with the user processing the input data given by the user. It is documented in each stage of the project to ensure error free output .The output screens are designed in a very simple ad easy to understand format. All user options are presented in well-formatted forms. The user friendliness of the output screen makes it very easy to use. The quality refers to the way by which the output is presented to the user

The main outputs of the system are:

- a. Product view:** The customer can view the products available in the shopping cart. The customer can get the details required and place order accordingly.
- c. Bills view:** This module provides the invoice details of the customer for the order he has placed. The customer gets the detailed information of the particular transaction.
- d. Dealers details view:** The customer can view details of the dealers available, so that the customer cane can get contact with the dealers for product delivery after the transaction gets completed.
- e. Email sending and inbox maintenance:** The customer sends the queries and replies through emails. This is useful for immediate contact with the administrator. The emails send by the administrator are maintained by the customer for further references.
- f. Chat page:** This module is an added advantage for the project. This module is used to provide online communication between the customer and the administrator, so that they can have clear conversation for the transaction to be done
- g. Customer details maintenance:** The administrator maintains customer registration details. The module provides information like customer name, address, personal details, bank name, card type and the pan number through which his transaction details are updated.

**h. Order details maintenance:** The administrator receives the order details from the customer and kept updating the details. This module helps in forecasting the customer demand on the products and hence to improve the sales. The module gets the details of the customer id, name, and the product ordered, the quantity needed, the ordered date and expected date of delivery. Refer the figures in appendix for output design.

#### **4.1.3 Database design**

An entity-relationship model is an abstract conceptual representation of structured data. **Entity-relationship modeling** is a relational schema database modeling method, used in software engineering to produce a type of conceptual data model (or semantic data model) of a system, often a relational database, and its requirements in a top-down fashion. Diagrams created using this process are called *entity-relationship diagrams*, or *ER diagrams* for short. The ER diagram for the project is shown in Figure 4.1

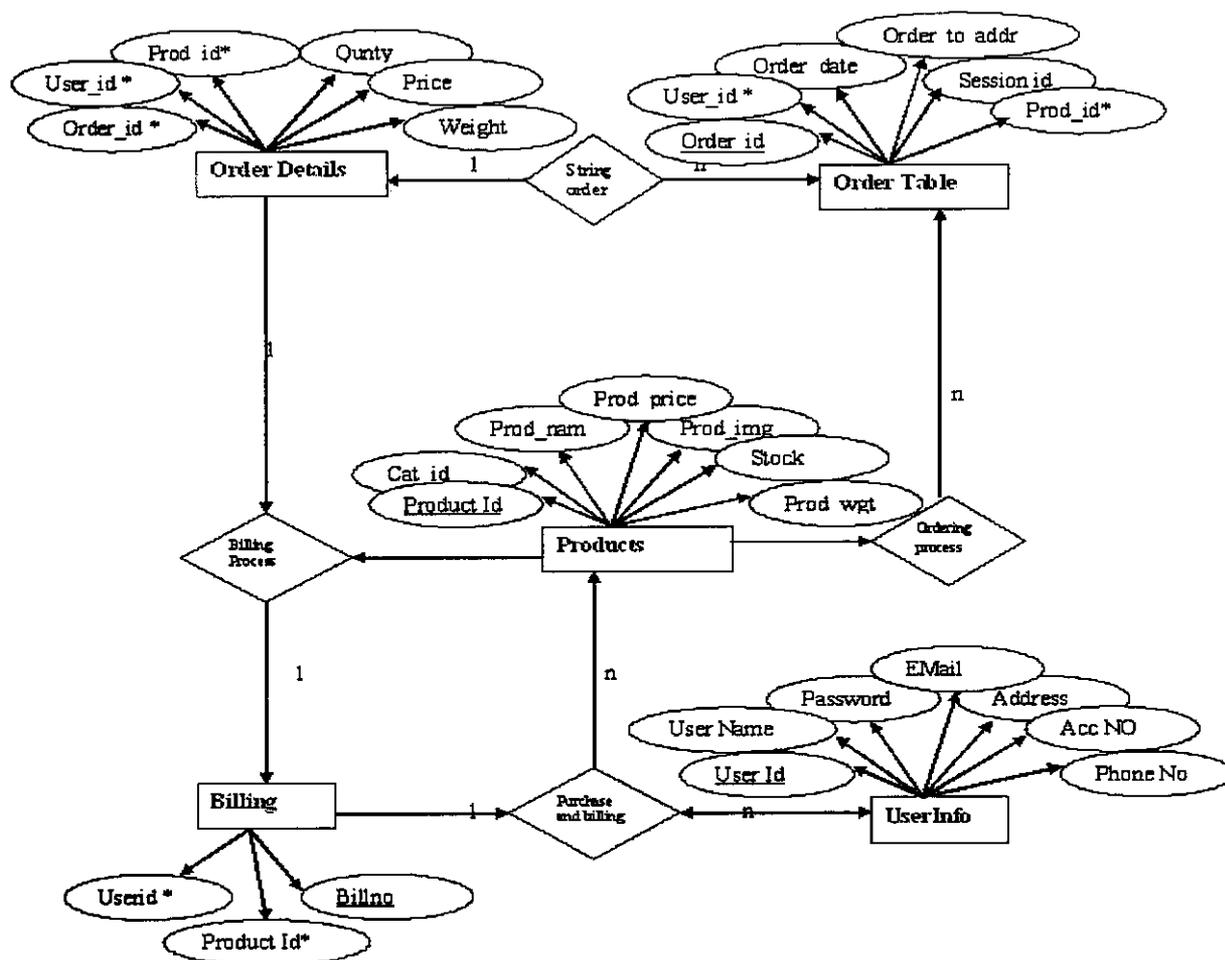


Figure 4.1: Entity Relationship Diagram

**Database design** is the process of producing a detailed data model of a database. This logical data model contains all the needed logical and physical design choices and physical storage parameters needed to generate a design in a Data Definition Language, which can then be used to create a database. The table formats are shown in Table 4.1 to 4.7.

**Table name: Admin**

**Description:** This table holds the administrator name and password

Field Name	Data Type	Width	Description
Adminname	Varchar	30	Name of the administrator
Password	Varchar	30	Secured password for the administrator

Table 4.1

**Table name: Customerreg**

**Description:** This table holds the details of the customer who have registered with this site.

Field Name	Data Type	Width	Description
Customerid	Varchar	50	Unique ID of the customer[primary key]
Password	Varchar	50	Secured password of the customer
Customername	Varchar	50	Name of the customer
Occupation	Varchar	50	Occupation of the customer
Registrationdate	Datetime		Date of registration of the customer
Address	Varchar	100	Address of the customer
City	Varchar	50	City name of the customer
State	Varchar	50	State name of the customer
Country	Varchar	50	Country name of the customer

Pincode	Varchar	50	Pincode of the city of customer
Phonenumber	Varchar	15	Phone number of the customer
Mobilenumber	Varchar	15	Mobile number of the customer
Emailaddress	Varchar	50	Email Address of the customer
Bankaccountnumber	Varchar	25	Bank A/C of the customer
Bankname	Varchar	50	Bank name of the customer
Cardtype	Varchar	20	Type of card used by customer
Cardnumber	Varchar	15	Pan number of the customer

Table 4.2

**Table name: Products**

**Description:** This table holds the details of the various products available in this site.

Field Name	Data Type	Width	Description
Productid	Varchar	50	Unique ID of the product[primary key]
productname	Varchar	50	Name of the product
producttype	Varchar	100	Category name of the product
priceindollars	Numeric	15	Price of the product

Table 4.3

**Table name: Orders**

**Description:** This table holds the details of the various products ordered by the customer

Field Name	Data Type	Width	Description
Ordered	Varchar	50	Unique ID of the product[primary key]
Customerid	Varchar	50	Reference ID of the customer[foreign key]
Orderdate	Datetime		Date of order
Productid	Varchar	50	Reference ID of the product[foreign key]
Orderedquantity	Numeric	5	No of products ordered
Expecteddeliverydate	Datetime		Date of delivery of the product

Table 4.4

**Table name: Dealer**

**Description:** This table holds the details of the various product dealers available.

Field Name	Data Type	Width	Description
Dealerid	Varchar	50	Unique ID of the dealer[primary key]
Dealername	Varchar	50	Name of the dealer
Address	Varchar	100	Address of the dealer
City	Varchar	50	City of the dealer

State	Varchar	50	State of the dealer
Pincode	Varchar	15	Pincode of the dealer
Phonenumber	Varchar	20	Phone number of the dealer
Mobilenumber	Varchar	20	Mobile number of the dealer
Emailaddress	Varchar	50	Email address of the dealer

Table 4.5

**Table name: Emailadmin**

**Description:** This table holds the details about communication between the administrator and the customer.

Field Name	Data Type	Width	Description
Emailno	Varchar	50	Unique ID of the email[primary key]
Fromaddress	Varchar	100	Address of the sender
Toaddress	Varchar	100	Address of the receiver
Emaildate	Datetime		Date on which email send
Subject	Varchar	100	Subject of the email
Body	Varchar	500	Message of the email
Fileatt	Varchar	100	Name of file attached in email

Table 4.6

**Table name: Emailcust**

**Description:** This table holds the details about the communication between the customer and the administrator.

Field Name	Data Type	Width	Description
Emailno	Varchar	50	Unique ID of the email[primary key]
Fromaddress	Varchar	100	Address of the sender
Toaddress	Varchar	100	Address of the receiver
Emaildate	Datetime		Date on which email send
Subject	Varchar	100	Subject of the email
Body	Varchar	500	Message of the email
Fileatt	Varchar	100	Name of file attached in email

Table 4.7

## 4.2 USE CASE DIAGRAM

A use case diagram is used to present a graphical overview of the functionality provided by a system in terms of actors, their goals, represented as use cases and any dependencies between those use cases. The following are the Use case diagrams for the project - shown in Figure 4.2 and 4.3.

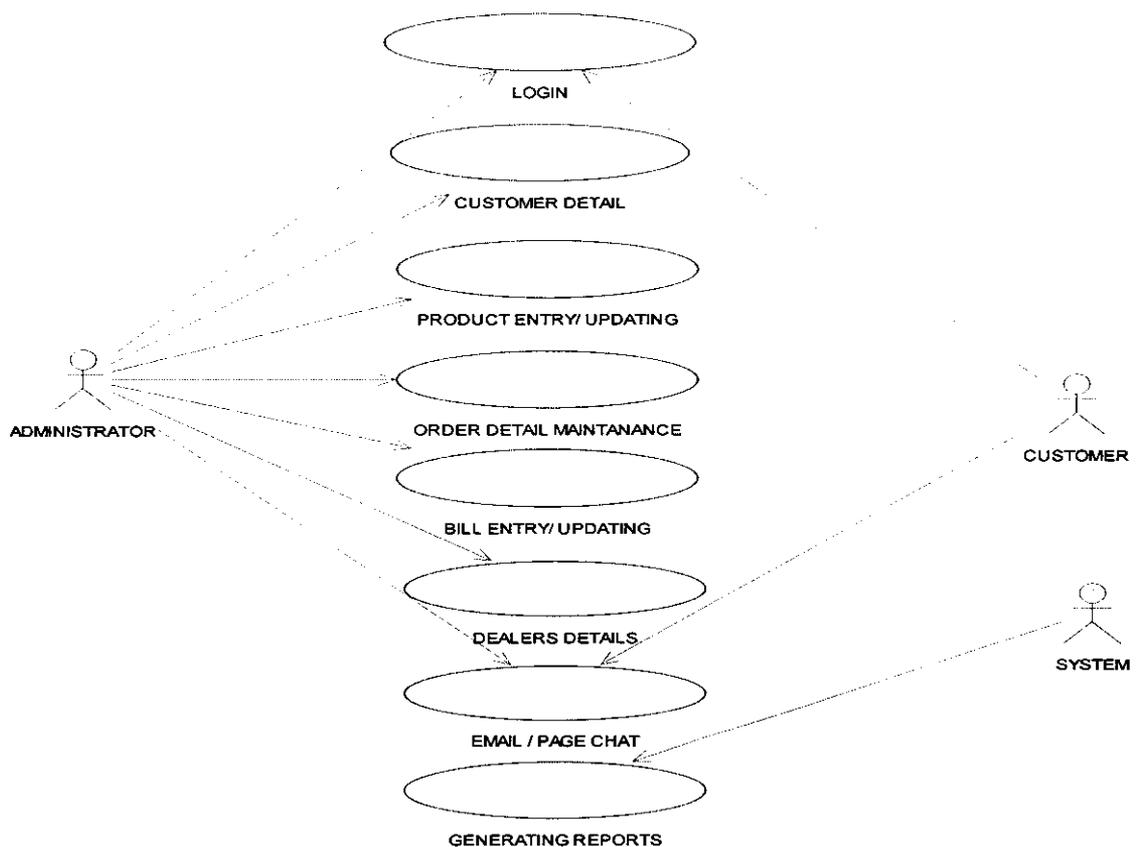


Figure 4.2: Admin module

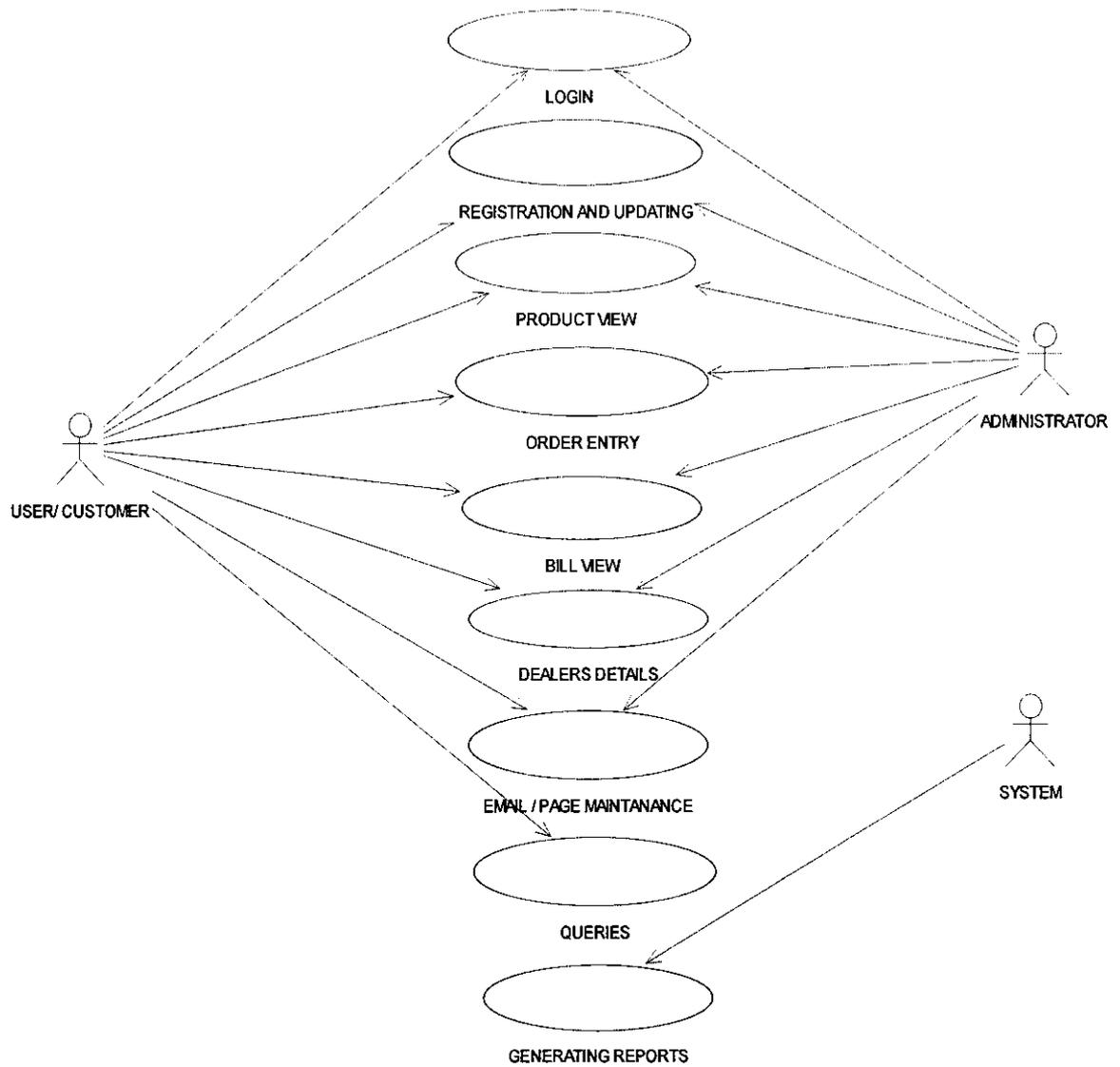


Figure 4.3: Customer module

## 5.2 SEQUENCE DIAGRAM

A sequence diagram is a form of interaction diagram which shows objects as lifelines running down the page, with their interactions over time represented as messages drawn as arrows from the source lifeline to the target lifeline. The following are the sequence diagrams for each module are shown in Figure 4.4 and 4.5.

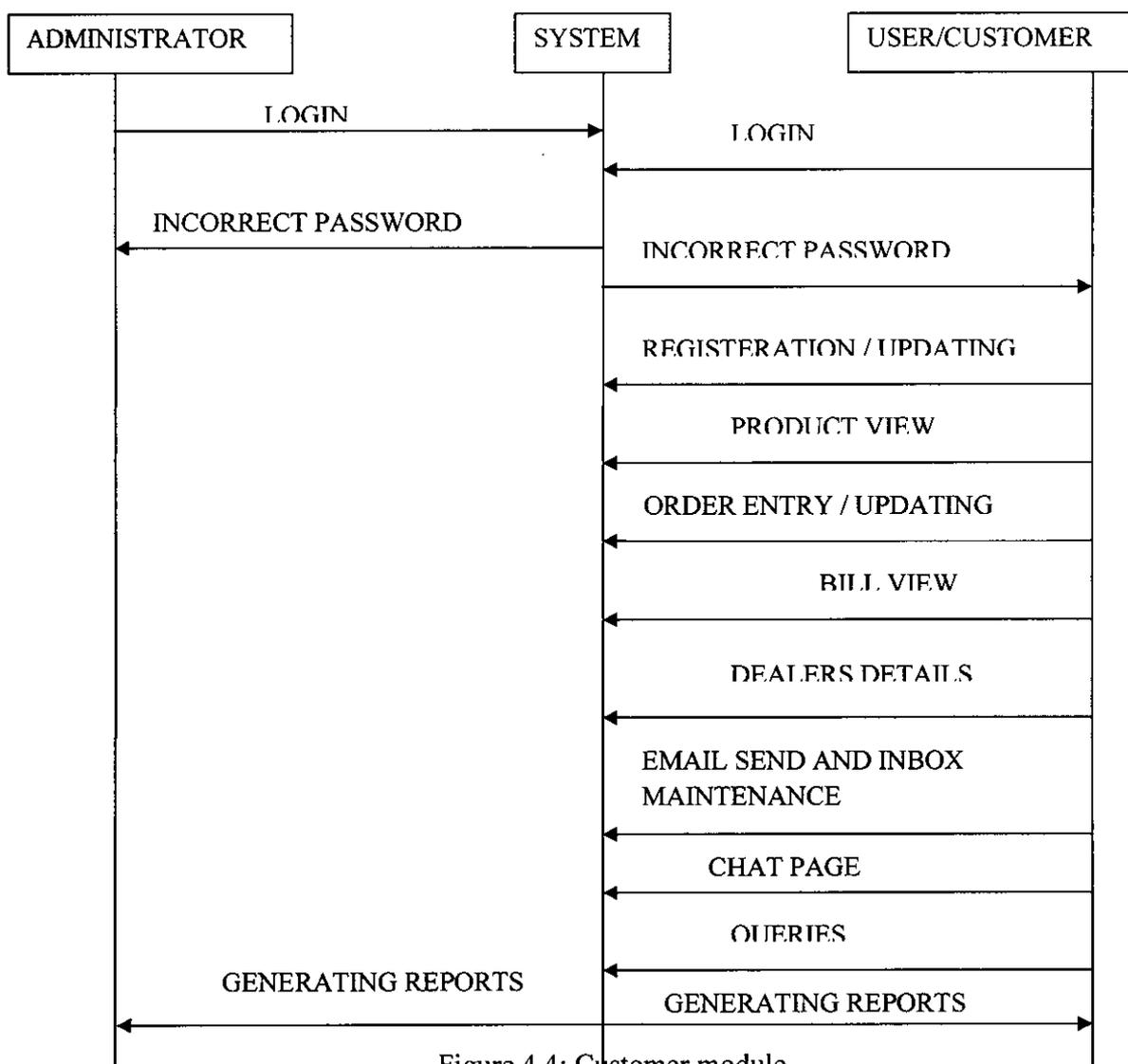


Figure 4.4: Customer module

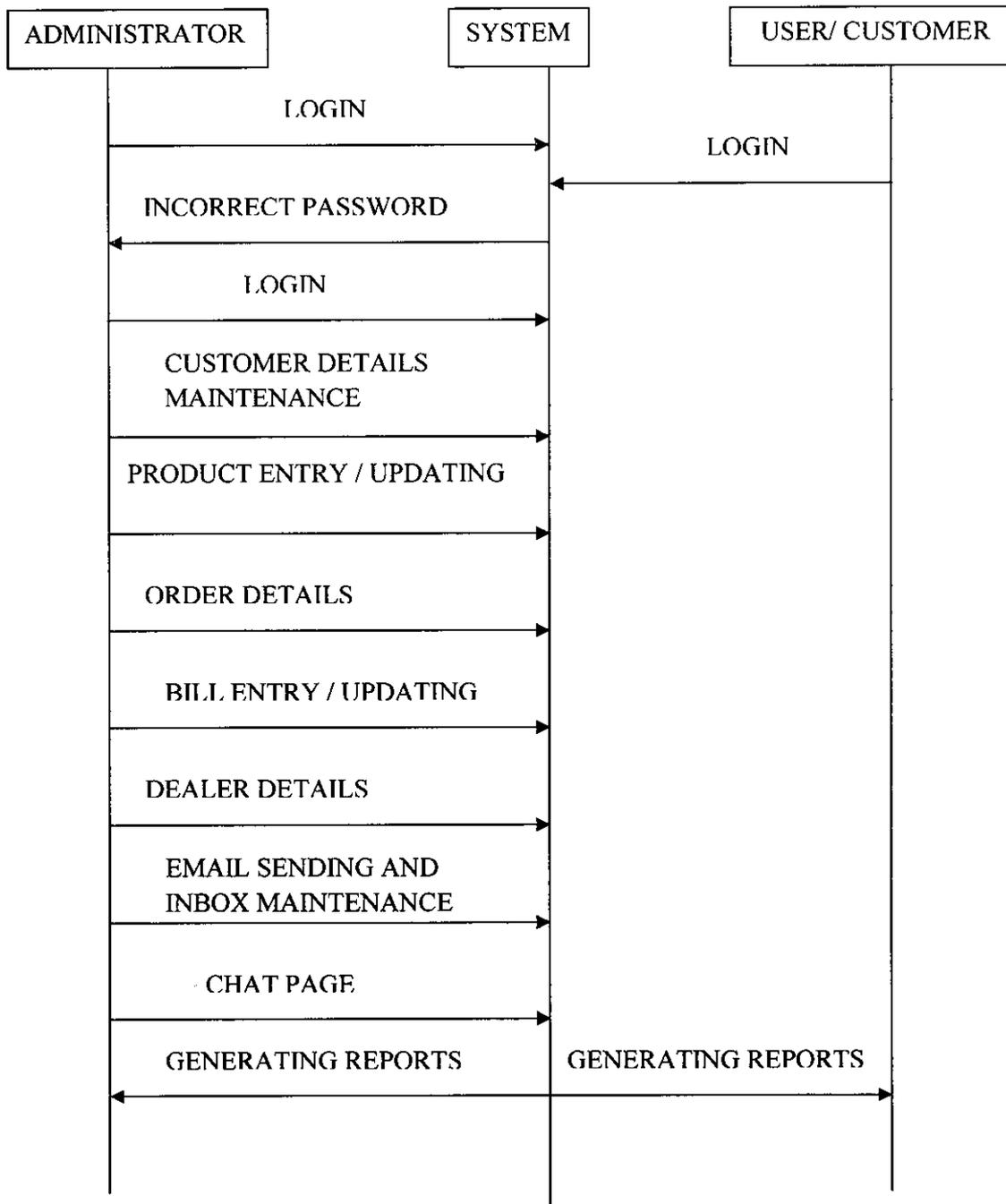


Figure 4.5: Admin module

### 4.3 ACITIVITY DIAGRAM

Activity diagrams describe the workflow behavior of a system. The diagrams describe the state of activities by showing the sequence of activities performed. Activity diagrams can show activities that are conditional or parallel. The Activity diagram for entire project show in Figure 4.6.

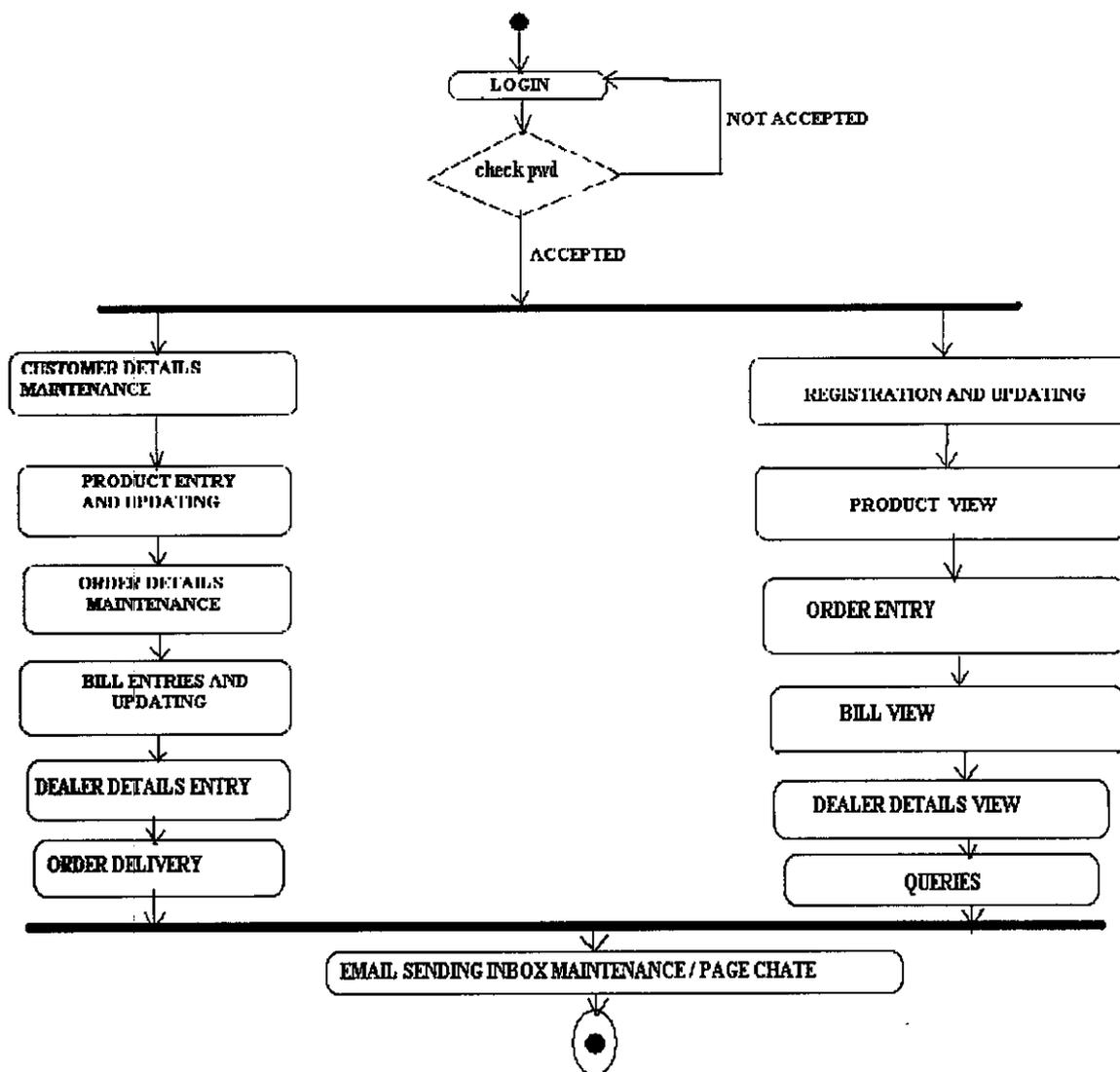


Figure 4.6: Activity Diagram

## CHAPTER 5

### SYSTEM TESTING AND IMPLEMENTATION

Software Testing and implementation is the process done in the development stage of the software.

#### 5.1 TEST PLAN

Testing is the process of executing a program with the indent of finding any errors. Testing is vital to the success of the system. Without proper testing, hidden errors will surface after some time of use and perhaps irreversible damage has been doe to valuable data. A successful test is one that uncovers as yet undiscovered errors. Some of the sample test cases used in this project are given below.

S.NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT
1.	User id: admin Password:1234	Invalid login	Invalid login
2.	User id: admin Password: admin	Valid login	Valid login
3.	If the customer select the product id in customer order form	The particular product id should add in the shopping cart	The product id added in the shopping cart
4.	If the customer click the order button in customer order form	New order id should generated and that order id should visible to administrator	Unique order id is generated and visible to administrator
5.	If the administrator click send mail button in email send form	The mail should visible to the particular customer according to the mail id	According to the mail id the details gets sent to the customer

## **5.2 TYPE OF TESTING**

### **5.2.1 Unit Testing**

In unit testing, we have to test the program marking up the system. Unit testing focuses first on the modules independently of one another, to locate errors. This enables within that module alone.

In this project, each page was tested separately as a unit. The flow of control and data through that page was tested. Each page is tested with the previously prepared test cases to find errors in the page. After rectifying the errors, Once again it was tested to ensure that there was no error.

### **5.2.1 Integration Testing**

Data can be lost across any interfaces. Once module can have an adverse effect on another, sub functions when combined, may not produce the desired major functions. Integrations testing for conducting tests to uncover errors associated within the interface. The objective is to take unit-tested module and build a program structure. The entire module are combined and tested as whole.

In B2C E-COM PORTAL, top down integration testing was followed. In this system, for example, first the user should order the product, if the product available it should get added to shopping cart and send the order id to the administrator to generate the bill. A change of data made in one screen should be reflected in all other screens. This process is continued from the page level to module level ad finally the whole system is tested.

### **5.3 SYSTEM IMPLEMENTATION**

Implementation literally means to put into effect or to carry out. The system implementation phase of the software deals with the translation of the design specification into the source code. Coding is done in this stage using an .net framework and programming language. Various types of bugs were discovered while debugging the modules. These were verified, tested and modified.

## CHAPTER 6

### CONCLUSION AND FUTURE ENHANCEMENT

#### 6.1 CONCLUSION

B2C E-COM helps to maintain the details of the customer, products and dealers details in full fledged security. Unauthorized persons cannot access the data. The transactions are kept online, so that there is fast completion of the transaction process available. The communication between the user and admin are made easy through the online chatting. The queries can be passed and replies can be got without any delay. The email with attachment provides secured file transformation from the admin to the user and the vice versa. The instance updating of product data is available. No more high man power is needed to maintain the system

This project is very useful for shopping the products it also maintains the good interaction between the customer and the administrator through email sending and page chatting.

#### 6.2 FUTURE ENHANCEMENT

This system has been designed in such a way that it can be modified with very little effort when such a need arises in the future. In the future the administrator decided to implement some videos to view the product designs clearly. And also decided to display some flash news happening all around the world.

Future this system can be designed with some enhancements like traveling reservation system is going to implement so that customer can satisfaction can improve a lot and more number of customer will visit this web site.

# APPENDIX

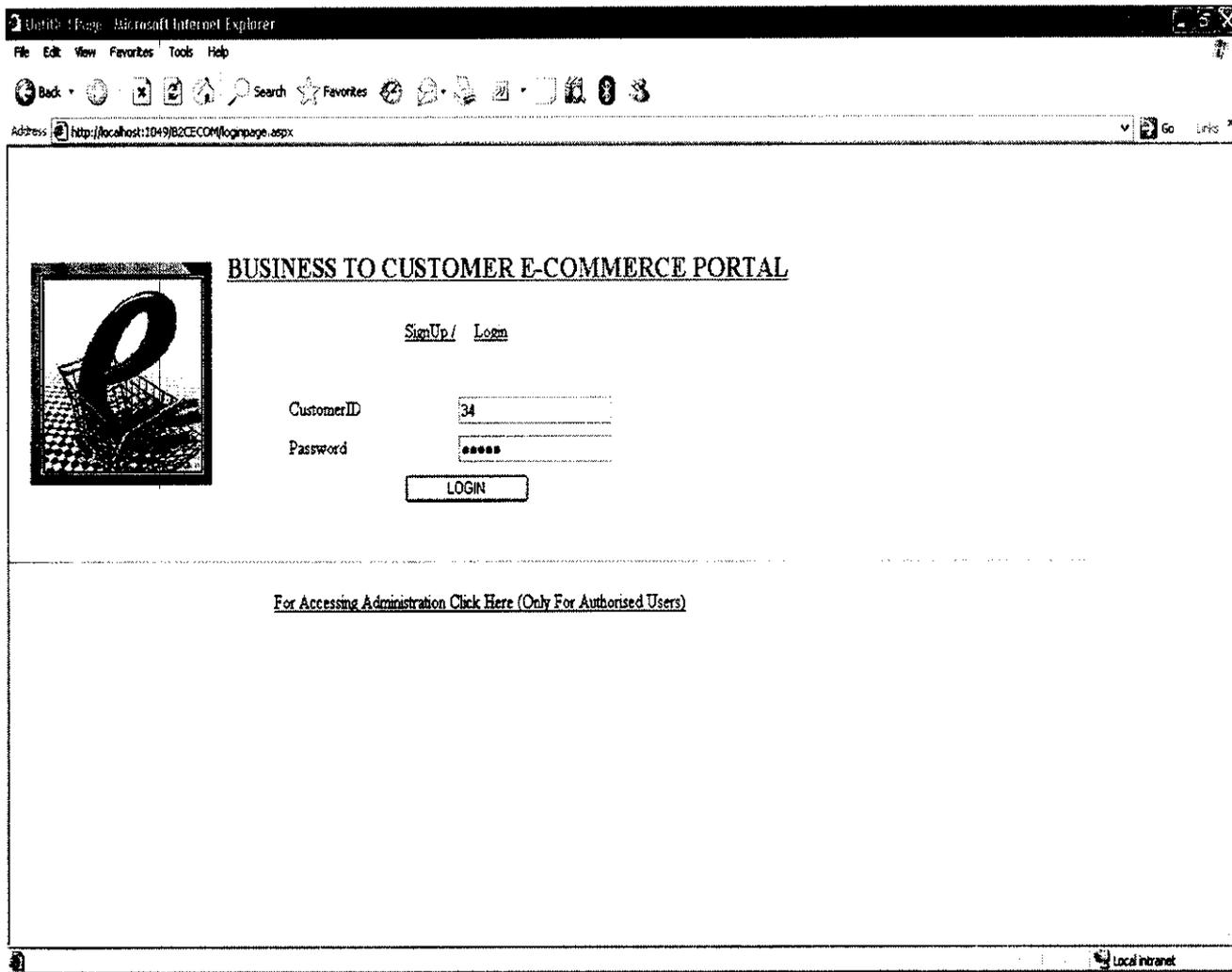


Figure A.1 User Login Page

Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Address <http://localhost:1049/R2CECOM/customerreg.aspx> Go Links

### CUSTOMER REGISTRATION FORM

CustomerID	34
Password	
CustomerName	nandhu
Occupation	business
Registration Date	04/29/2009 <small>Enter Date in mm/dd/yyyy format</small>
Address	52, subarayavalsu
City	erode
State	tamilnadu
Country	India
Pincode	638002
Phone Number	0424-2400292
Mobile Number	9865075997
E Mail Address	nandhumca34@yahoo.co.in
Page No	123456
Bank Name	ing vyeya
Card Type	debitcard
Card Number	

Copyright © 2009 All Rights Reserved

Local intranet

**Figure A.2 Customer Registration Form**

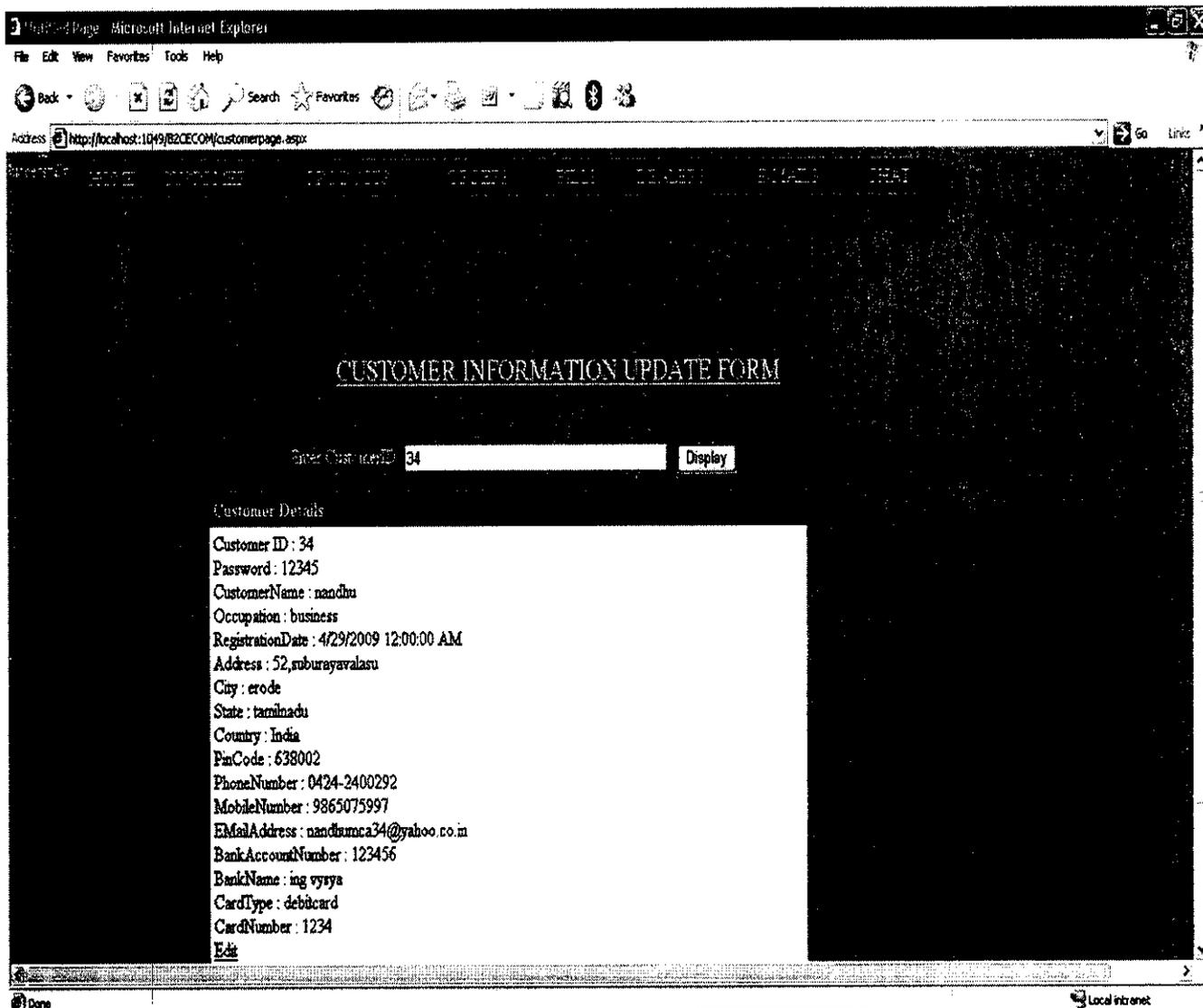


Figure A.3 Customer Information Update Form

Untitled Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

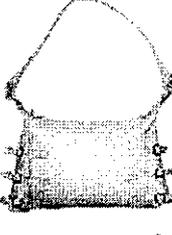
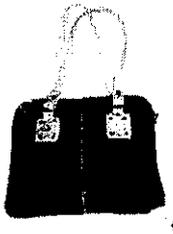
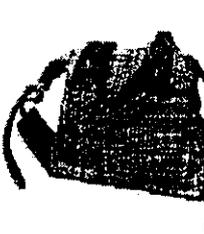
Back Home Stop Search Favorites

Address http://localhost:1049/B2CECOM/customerpage.aspx

Go Links

Logged In  
AccessURL: HOME CUSTOMER PRODUCTS ORDERS BELLS DEALERS E-MAILS CHAT

LEATHER BAGS LEATHER BELTS LEATHER BOOTS FORMAL SHIRTS FORMAL PANTS JEAN & T-SHIRTS SALWARS SAPEES

 <p>Zoom View</p>	 <p>Zoom View</p>	 <p>Zoom View</p>
<p>PRODUCT ID : B2P0001 PRODUCT NAME : FURBAG SMI.11 DESCRIPTION : FURBAG SIZE : 25*25 CM, 10*10 INCH PRICE : 50\$</p>	<p>PRODUCT ID : B2P0004 PRODUCT NAME : EVENING BAG LE-125 DESCRIPTION : EVENING BAG SIZE : 25*25 CM, 10*10 INCH PRICE : 70\$</p>	<p>PRODUCT ID : B2P0008 PRODUCT NAME : TOUCH CHF-SP-01 DESCRIPTION : TOUCH BAGS SIZE : 40*30 CM PRICE : 75\$</p>
 <p>Zoom View</p>	 <p>Zoom View</p>	 <p>Zoom View</p>
<p>PRODUCT ID : B2P0002 PRODUCT NAME : FURBAG SMI.13 DESCRIPTION : FURBAG</p>	<p>PRODUCT ID : B2P0005 PRODUCT NAME : EVENING BAG LE-12 DESCRIPTION : EVENING BAG</p>	<p>PRODUCT ID : B2P0009 PRODUCT NAME : TOUCH CHF-SP-02 DESCRIPTION : TOUCH BAG</p>

Local intranet

Figure A.4 Product View Form



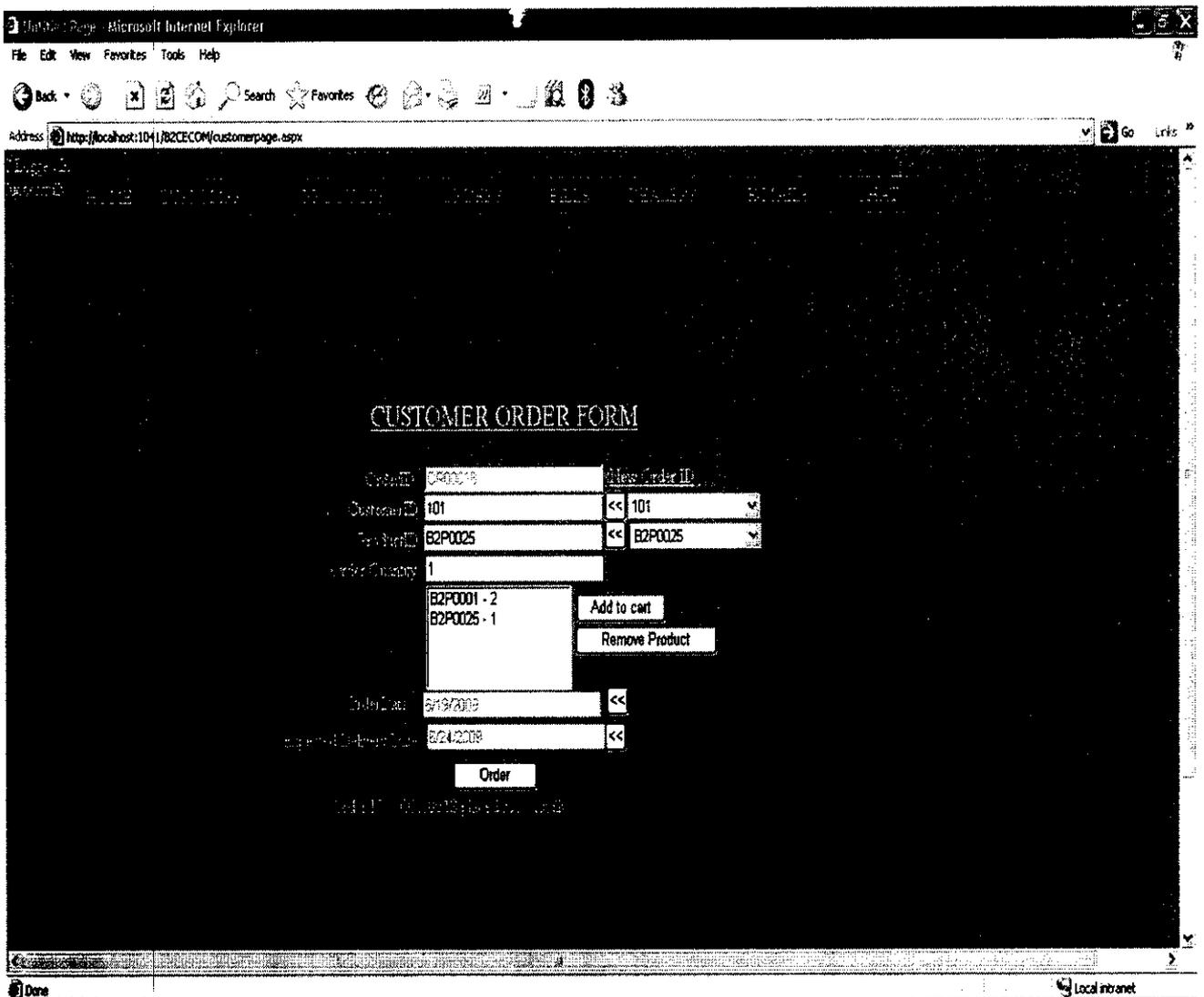


Figure A.6 Customer Order Form

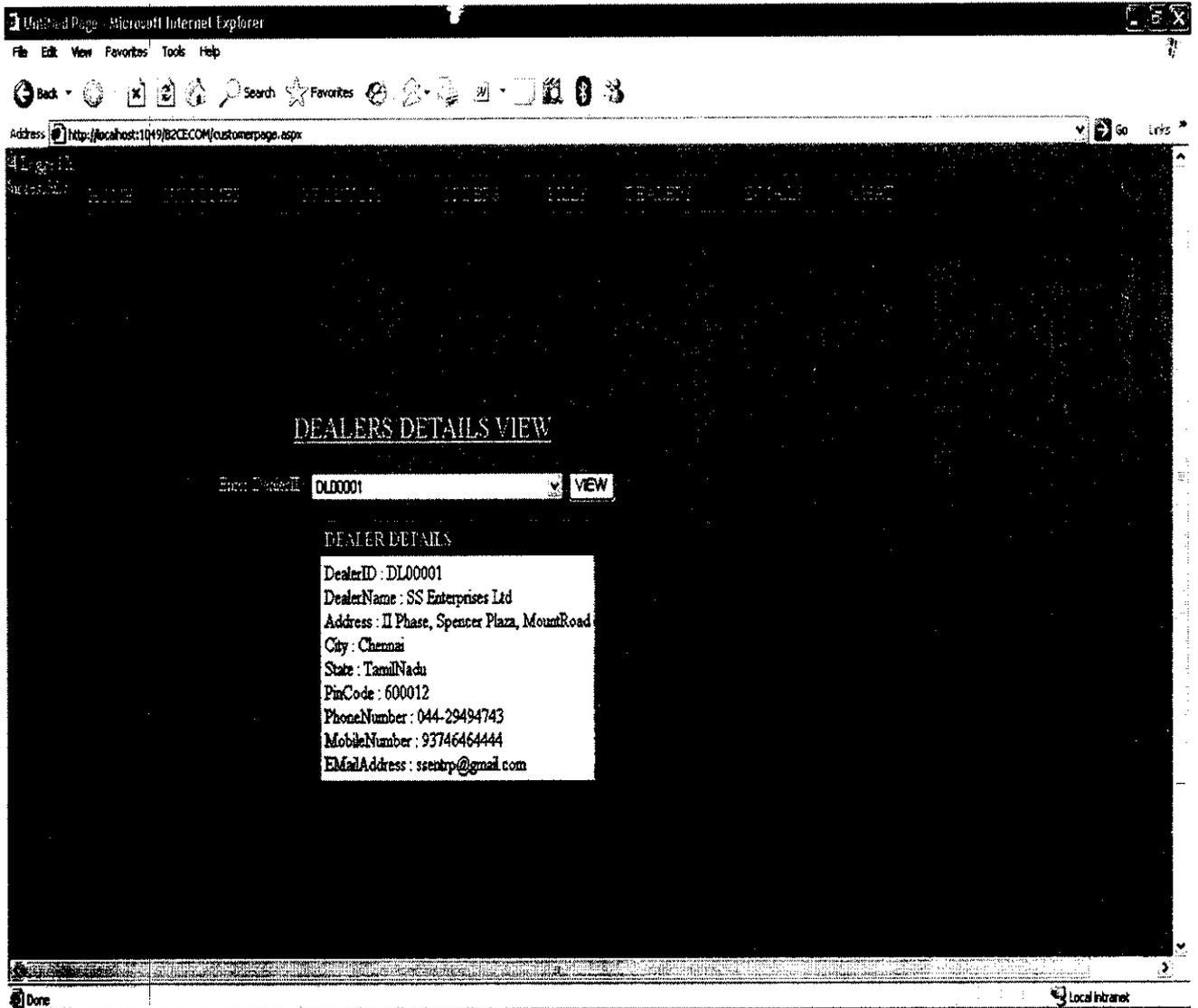


Figure A.7 Dealers Details View

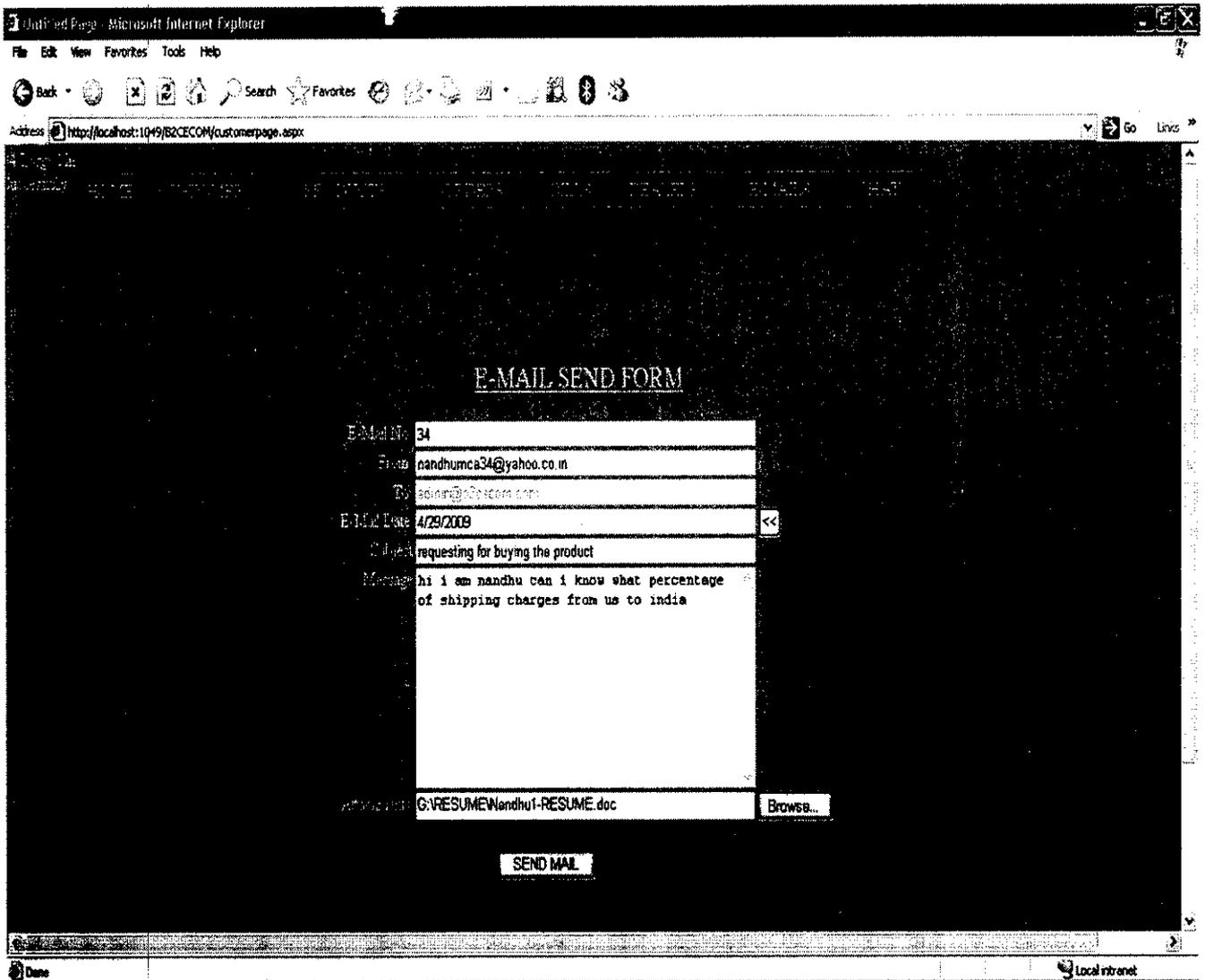


Figure A.8 Customer E-Mail Send Form

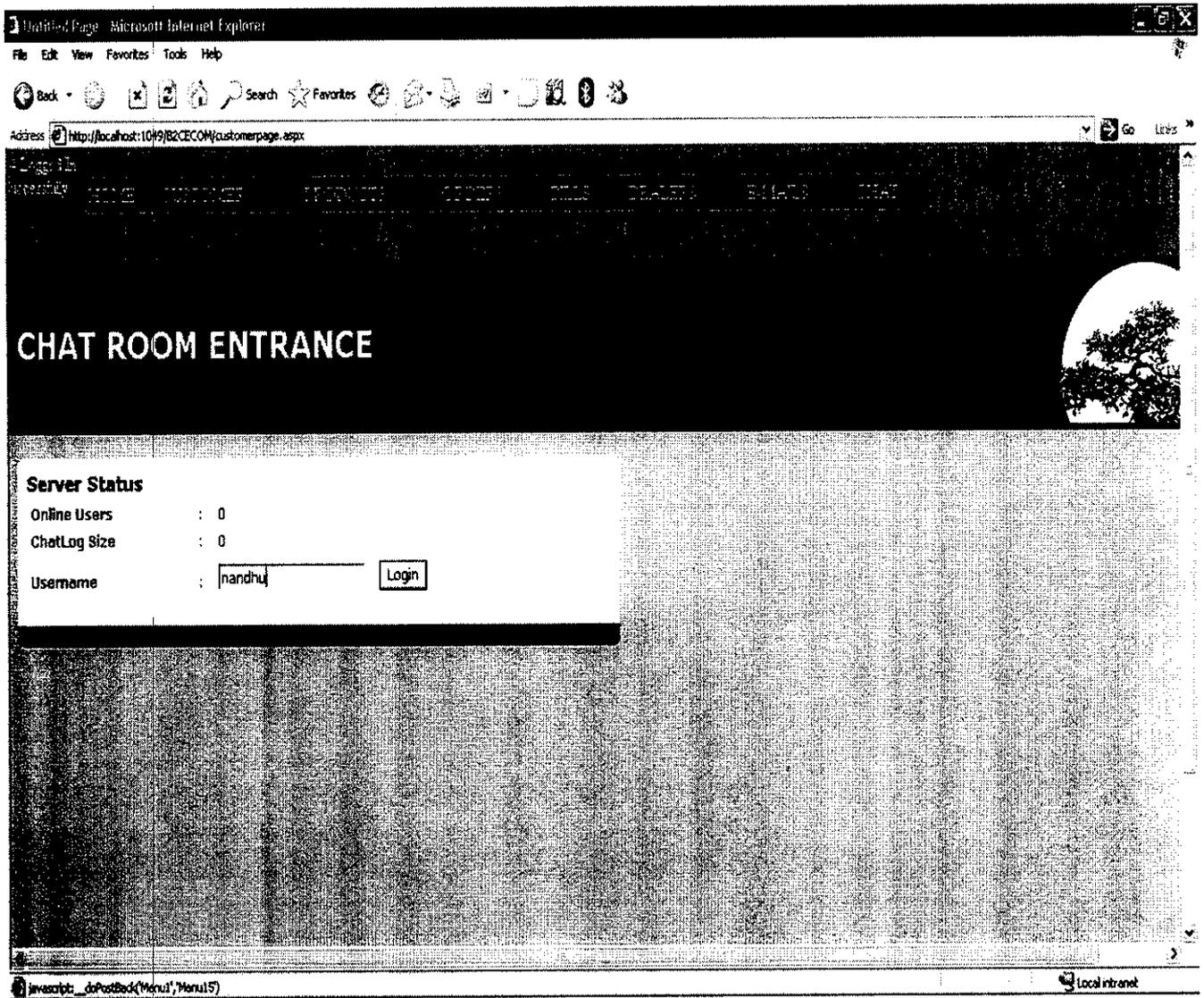


Figure A.9 Chat Room

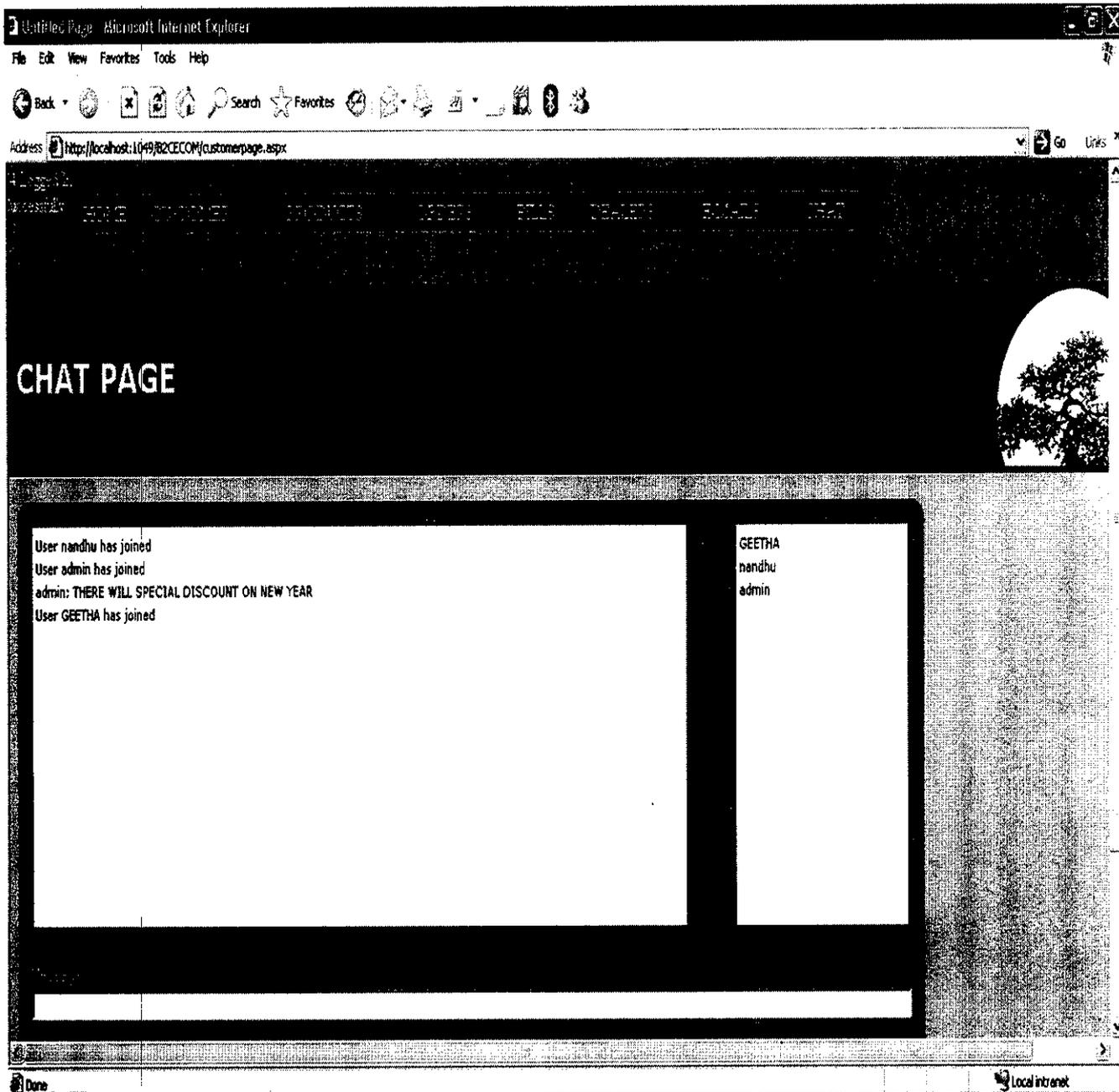


Figure A.10 Chat Page

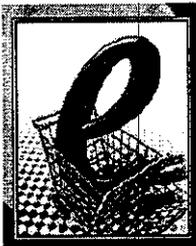
Untitled Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Stop Search Favorites

Address <http://localhost:1049/B2CECOM/loginpage.aspx> Go Links

---



## BUSINESS TO CUSTOMER E-COMMERCE PORTAL

[SignUp/](#) [Login](#)

---

For Accessing Administration Click Here (Only For Authorized Users)

AdministratorID:

Password:

Done Local intranet

Figure A.11 Administrator Login

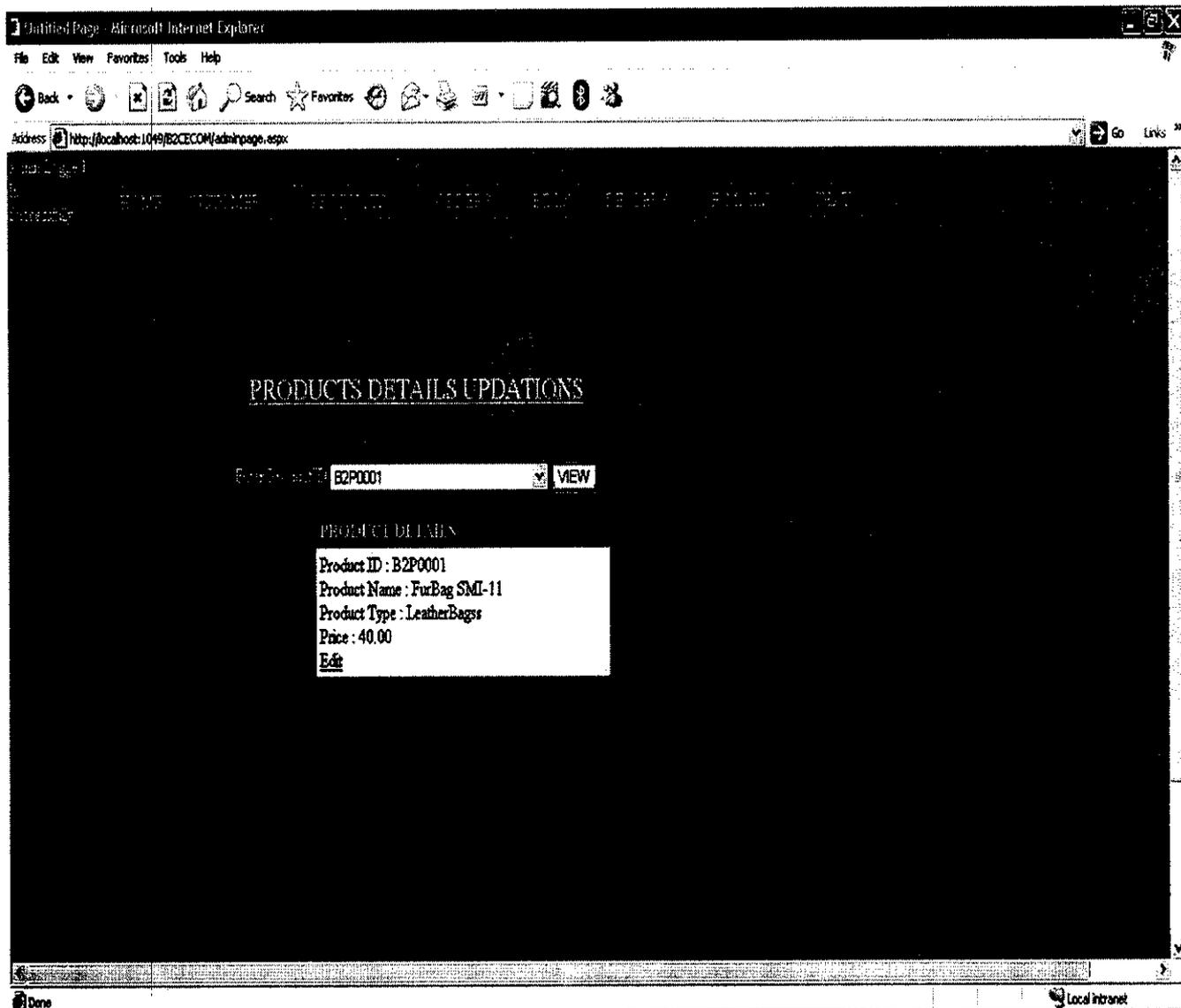


Figure A.12 Products Details Updating

Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Home Search Favorites

Address: http://localhost:1049/BJ2CECOM/adminpage.aspx

Home

HOME SETTINGS PRINTING ORDER BILL COLLECT BACK TEST

ADMINISTRATOR

### BILLING ENTRY FORM

Enter Bill

PCN	610018	Enter PCN
OrderID	OR00011	<< OR00011
BillDate	4/29/2009	>>
Order Quantity	3	
Line Product	40.00	
Line Charges	2	
Shipping Charges	2	
Line Charges	3	
Total Amount	127.4	

ENTER NEW

Enter Bill ID: 12345678901234567890

Done Local Intranet

Figure A.14 Billing Entry Form

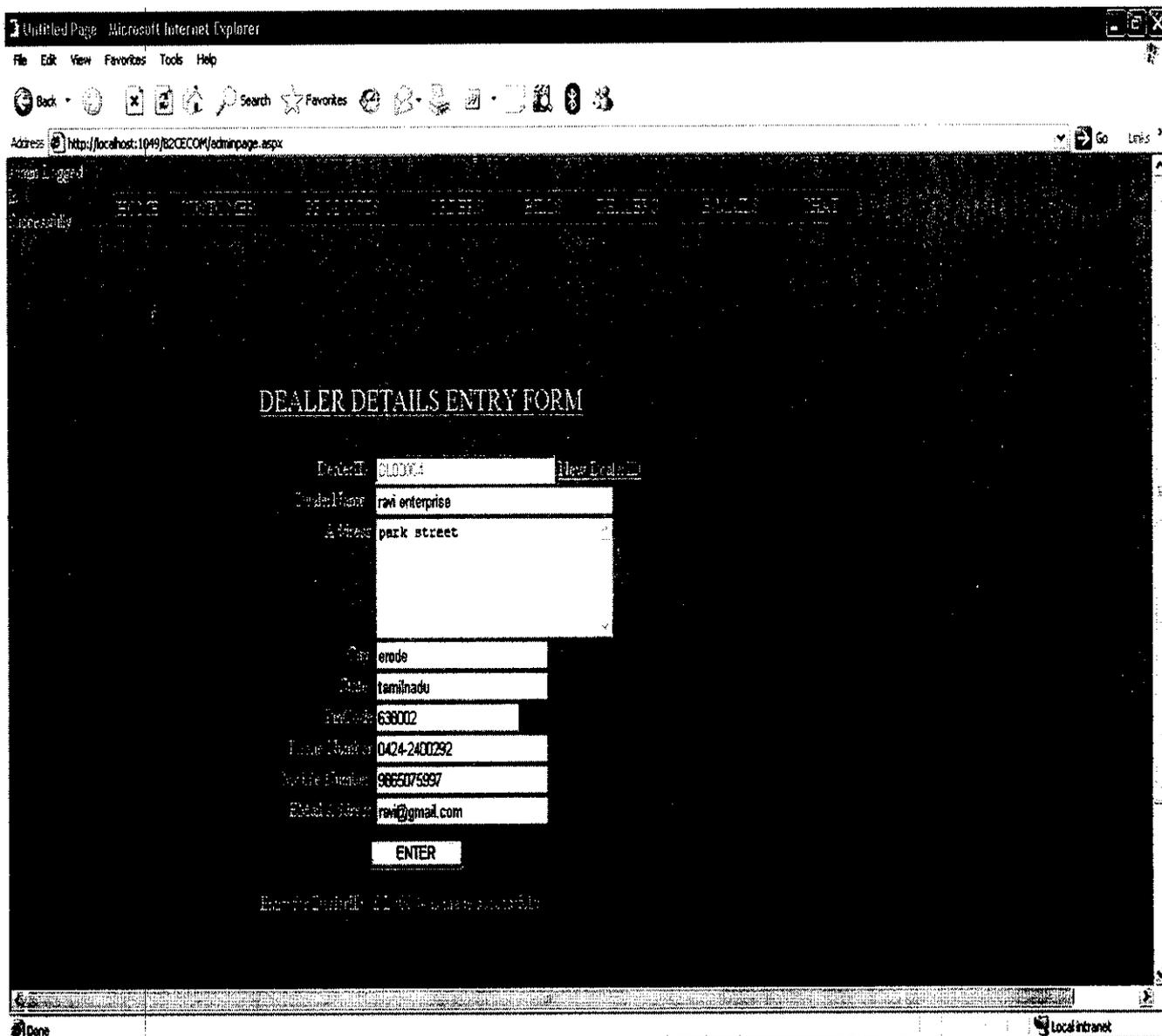


Figure A.15 Dealers Details Entry Form

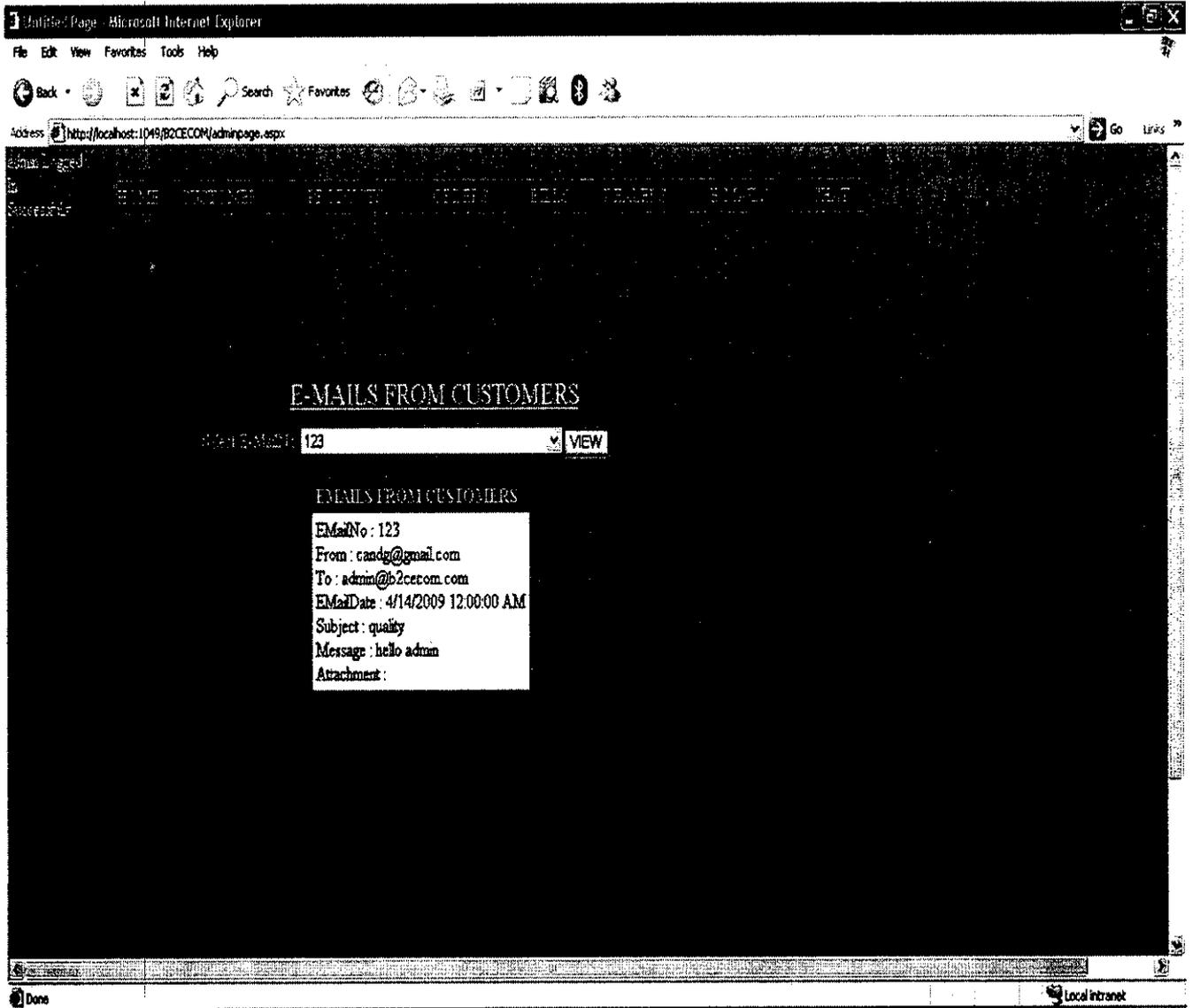


Figure A.16 E-Mail From Customer

## REFERENCES

### BOOK REFERENCES:

- Matt J.Crouch.(May 2002) “ASP .Net and VB.Net Web Programming”, Addison-Wesley Publication.
- Paul Kimmel. (January 2002) “Visual Basic .Net”, Sams Publication.
- Peter Blackburn and William R Vaughn. (2004), “Guide to SQL Server 2005”, Addison-wesley Publication.

### ONLINE REFERENCES:

- [www.microsoft.com/vbasic](http://www.microsoft.com/vbasic)
- [www.vbdotnet.com](http://www.vbdotnet.com)
- [www.vbdotsample.com](http://www.vbdotsample.com)
- [www.4guysfromrolla.com](http://www.4guysfromrolla.com)