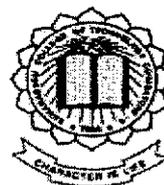


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**AXPERT DEVICE INTEGRATION-HANDHELD  
DEVICES,GPRS**

**PROJECT REPORT**

*Submitted By*

**RAMPRABHU.V**

**Register No.: 0720300034**

*in partial fulfilment for the award of the degree  
Of*

**MASTER OF COMPUTER APPLICATIONS**

in

**COMPUTER APPLICATIONS**

**KUMARAGURU COLLEGE OF TECHNOLOGY**

**(An Autonomous Institution Affiliated to Anna University, Coimbatore)**

**May, 2010**

**KUMARAGURU COLLEGE OF TECHNOLOGY**

(An Autonomous Institution Affiliated to Anna University, Coimbatore)

**COIMBATORE – 641 006.**

Department of Computer Applications

**PROJECT WORK**

**MAY 2010**

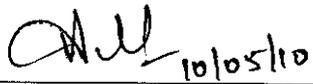
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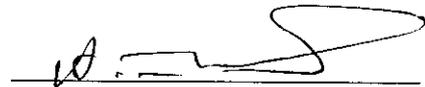
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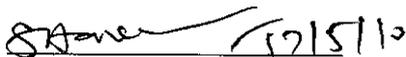
  
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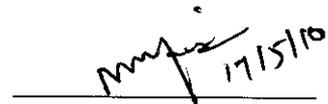


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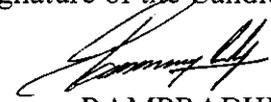
  
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## DECLARATION

I affirm that the project work titled **AXPERT DEVICE INTEGRARION-HANDHELD DEVICES,GPRS** being submitted in partial fulfilment for the award of **MASTER OF COMPUTER APPLICATIONS** is the original work carried out by me. It has not formed the part of any other project work submitted for award of any degree or diploma, either in this or any other University.

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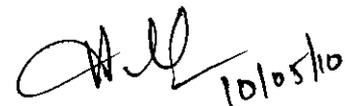


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## ABSTRACT

Mobile communication systems of today provide increased availability, miniaturization and enhanced data rates. This emergence is expected to enhance the deployment of mobile systems in many services.

In this Project, AXPERT DEVICE INTEGRATION HANDHELD DEVICES-GPRS is used for sending data from salesperson to dealer. Salesperson has to login to the application with his unique id provided by the dealer.

Once the salesperson is authenticated he can select the items which he sells and provide the necessary fields like bill no, serial no, etc. After that, Data will be sent to the dealer website with necessary reports. Dealer can also update the product list from his website which will get reflected in the mobile.

The reports are generated using Axpert tool. The data which is sent from the mobile gets stored in the database from which data are collected by the Axpert tool to generate various reports like salesman-wise report, monthly-wise report etc.

## CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
	<b>LIST OF TABLES</b>	vii
	<b>LIST OF FIGURES</b>	viii
<b>1</b>	<b>INTRODUCTION</b>	
	1.1 Project Overview	1
<b>2</b>	<b>SYSTEM ANALYSIS</b>	
	2.1 Existing System	2
	2.2 Proposed System	2
	2.3 Module Functionalities	3
	2.4 Feasibility Study	4
<b>3</b>	<b>DEVELOPMENT ENVIRONMENT</b>	
	3.1 Hardware Requirements	5
	3.2 Software Requirements	5
	3.3 Programming Environment	6
<b>4</b>	<b>SYSTEM DESIGN</b>	
	4.1 Data Flow Diagram	10
	4.2 Database Design	11
	4.2.1 Table Design	12
	4.3 Input Design and Output Design	14
<b>5</b>	<b>SYSTEM IMPLEMENTATION</b>	
	5.1 Implementation Process	16
	5.2 System Verification	16
	5.3 System Validation	16

<b>6</b>	<b>SYSTEM TESTING</b>	<b>18</b>
	6.1 Unit Testing	18
	6.2 Integration Testing	
	6.3 System Testing	
	6.3.1 Security Testing	
	6.3.2 Stress Testing	
<b>7</b>	<b>CONCLUSION AND FUTURE ENHANCEMENT</b>	
	7.1 Conclusion	21
	7.2 Future Enhancement	21
<b>8</b>	<b>APPENDICES</b>	
	8.1 Sample Screenshots	22
<b>9</b>	<b>REFERENCES</b>	
	9.1 Reference Books	33
	9.2 Websites	

**LIST OF TABLES**

<b>Figure No.</b>	<b>Description</b>	<b>Page No.</b>
4.2.1	PRODUCTMAINCAT	11
4.2.2	PRODUCTSUBCAT	12
4.2.3	USERDET	12
4.2.4	SALES	13

### LIST OF FIGURES

Figure No.	Description	Page No.
4.1.1	DATA FLOW DIAGRAM	11
A.1	LOGIN PAGE	22
A.2	PRODUCT MAIN CATEGORY	23
A.3	PRODUCT SUB CATEGORY	24
A.4	SALES PERSON CREATION	25
A5	SALES	26
A.6	DAY WISE REPORT	27
A.6	SALESMAN WISE REPORT	28
A.8	MOBILE LOGIN	29
A.8	MOBILE UPDATION PAGE	30
A.8	MOBILE CONFIRM PAGE	31
A.9	DATA SENT PAGE	32

## CHAPTER 1

### INTRODUCTION

#### 1.1 PROJECT OVERVIEW

Axpert Device Integration is a mobile application which is used by sales Person of a particular dealer to update his daily sales through the mobile application via GPRS to the Axpert database. The main advantage of this system is dealer could be able to know the sales of all his salesmen in detail as soon as the sales person updates his sales through mobile application. The main objective of bringing mobile application into sales process is to efficiently evaluate the sales made thoroughly through a fully automated process. Each salesperson will have a different user identification so only the authorized person can enter into the application to send data.

The application first checks for the user identity. On successful login the user will be welcomed with the page where he can enter the sales update. On unsuccessful login the user cannot enter the application and will stay in the same page asked for the proper login details.

Initially the application fetches the data of products and sub products in dropdown box. The sales person can then choose the products which he wants to update and provide the various details asked in the applications and can finally sent to the database by confirming all the details which he provided. Once the data reaches database, Axpert system gets the data and manipulates that data for various reports like Salesman wise report, Monthly report, Day Wise sales report. Dealer can add or remove new items in main product and sub product category tables any time. Sales entry can also be done from the dealer website.

## CHAPTER 2

### SYSTEM ANALYSIS

System analysis involves the process of diagnosing, interpreting and helps us to propose a new system. This chapter describes existing and proposed system.

#### 2.1 Existing System

The existing system has the following drawbacks:

- The current system of recording sales manually is time consuming.
- It is very difficult to analyze the sales done on different dates.
- Sales Account not accurate as calculation are done manually.
- The chances of paper leakage are more in current system as compared to proposed system.
- Searching for result of sales done on particular month takes more time as it is done manually.

#### 2.2 Proposed System

The need for the proposed system has arised from the drawbacks of the existing system. The proposed system has the following advantages.

- Method of update of sales through mobile application will make the dealer know exact time of sales.
- Analysis will be very easy in proposed system as it is automated.
- Search Result of sales will be very precise and accurate.
- Calculation and evaluations are done by the system itself.
- No chances of missing of sales details as it gets updated in database as soon as sales person makes an update of sales.

## 2.3 MODULE FUNCTIONALITIES

The modules of the project are as follows:

- Login
- Sales
- Dealer

### **Login**

The login module mainly concentrates on the authentication process. The system will permit the salesperson to enter only if the admin permits, i.e. the username and password is required to log in the system.

### **Sales**

The Sales module concentrates on the details of the sales made by the sales person. It has all details necessary like product, sub product, bill no, serial no,etc.. Based on the sales done by the sales person the values will be changed which gets reflected in database.

### **Dealer**

The Dealer module is the core module of this system. Here the dealer is the one who sets access for the sales persons. Also dealer is the one who adds the categories of product and manipulates various reports. Dealer himself can enter the sales transaction by himself.

## **2.4 FEASIBILITY STUDY**

The main purpose of feasibility study is to determine the problem is worth solving. Feasibility study is high-level capsule version of the extra system analysis and design process. The success of a system also lies in the amount of feasibility study done on it. There are three main feasibility tests performed. They are

### **Operational Feasibility**

During feasibility analysis, operational feasibility study is necessary as it ensures that the project developed is successfully implemented in the organization. According to software engineering principles, operational feasibility or in other words usability should be high. In this project, a thorough analysis is done and found that the system is operational for the development of mobile application.

### **Technical Feasibility**

Technical feasibility takes care of the technical issues that are to be tested to see whether the system is feasible. Technical feasibility analysis makes a comparison between the levels of technology available and the technology that is needed for the project. The level of technology is determined by factors such as the software tools available, the machine environment, platform etc since, the resource required for the development of the project is already available, and this project is technically feasible. All the technology features available in the organization provide support for the development of mobile application.

### **Economical Feasibility**

This is the most important aspect that has to be critically evaluated. The costs and benefits have to be estimated. Considering the cost factor, the system will be economically feasible. Economical feasibility for this project is minimum because of low number of system recourses used and software required for development of this project are already available.

## CHAPTER 3

### DEVELOPMENT ENVIRONMENT

This chapter describes the hardware and software requirements of the application.

#### 3.1 HARDWARE REQUIREMENTS

Processor	-	Intel core 2 duo
Hard Disk Capacity	-	80GB
RAM	-	512MB
Speed	-	2.66 GHz
Monitor	-	Samsung
Printer	-	Epson EX-1000
Floppy Disk Drive	-	1.44MB
Compact Disk Drive	-	Sony

#### 3.2 SOFTWARE REQUIREMENTS

When an application project is considered the three basic software requirements are the platform in which the project is developed, the front-end tool that provides the interaction with the user and back-end tool that stores the data.

Operating system : Windows XP (SP 2)

Front end : Axpert

Back end : Oracle10g

Language : j2me

### 3.3 PROGRAMMING ENVIRONMENT

#### **Axpert**

A Process structure is a set of related database tables along with business rules. Business rules seldom make sense without data. Hence, business rules are tightly bound to a collection of data elements that are persisted into one or more related database tables. Every business entity in a software application can be considered as a process structure. A Business process is created by inter-connecting the different process structures. The connection between process structures are achieved by mapping the elements in one process structure to another. The process structures can be connected with different kinds of maps based on business need.

The basic version of Axpert TM consists of two major components

- Axpert TM process server
- Axpert TM STEM (windows desktop application)

Axpert TM STEM (Structure Execution and Management) is used to define process structures. The defined process structures are rendered by the Axpert TM Process Server as an application.

On creating a process structure, Axpert TM stem will store the structure definition into database in XML format. Further, it creates the required tables in the database to store user data.

#### **Oracle10g**

An Oracle database system—identified by an alphanumeric system identifier or SID[4]—comprises at least one instance of the application, along with data storage. An instance—identified persistently by an instantiation number (or activation id: SYS.V\_\$DATABASE.ACTIVATION#)—comprises a set of operating-system processes

and memory-structures that interact with the storage. Typical processes include PMON (the process monitor) and SMON (the system monitor).

Users of the Oracle databases refer to the server-side memory-structure as the SGA (System Global Area). The SGA typically holds cache information such as data-buffers, SQL commands, and user information. In addition to storage, the database consists of online redo logs (or logs), which hold transactional history. Processes can in turn archive the online redo logs into archive logs (offline redo logs), which provide the basis (if necessary) for data recovery and for some forms of data replication.

If the Oracle database administrator has implemented Oracle RAC (Real Application Clusters), then multiple instances, usually on different servers, attach to a central storage array. This scenario offers advantages such as better performance, scalability and redundancy. However, support becomes more complex, and many sites do not use RAC. In version 10g, grid computing introduced shared resources where an instance can use (for example) CPU resources from another node (computer) in the grid.

The Oracle DBMS can store and execute stored procedures and functions within itself. PL/SQL (Oracle Corporation's proprietary procedural extension to SQL), or the object-oriented language Java can invoke such code objects and/or provide the programming structures for writing them.

## **J2ME**

Enterprise systems traditionally are designed using the client/server model, where client-side systems request processing from service-side systems. However, enterprise systems were undergoing their own evolution. A new model called Web services gradually replaced the client/server model in corporations. Application programmers assembled applications from an assortment of processing components called Web services.

Each Web service was independent from other Web services and independent from applications. A client-side application communicates with a middle-tier, server-side

application, which in turns interacts with the necessary Web services that are also located on the server side. With the adoption of the Web services model in corporations, the JCP realized that J2ME must also go through another evolutionary cycle. With the introduction of new specifications, the Java community has merged J2ME technology with Web services technology.

In addition to the acceptance of Web services, corporations are also seeking to merge mobile technology such as Personal Digital Assistants and cellular phones with corporate mainstream applications. J2ME, with the new PIM API, enables developers to create sophisticated, wireless applications that have direct access to native PDA databases. This enables corporate executives to use corporation's PDA systems to interact with data maintained by PDA native applications.

## CHAPTER 4

### SYSTEM DESIGN

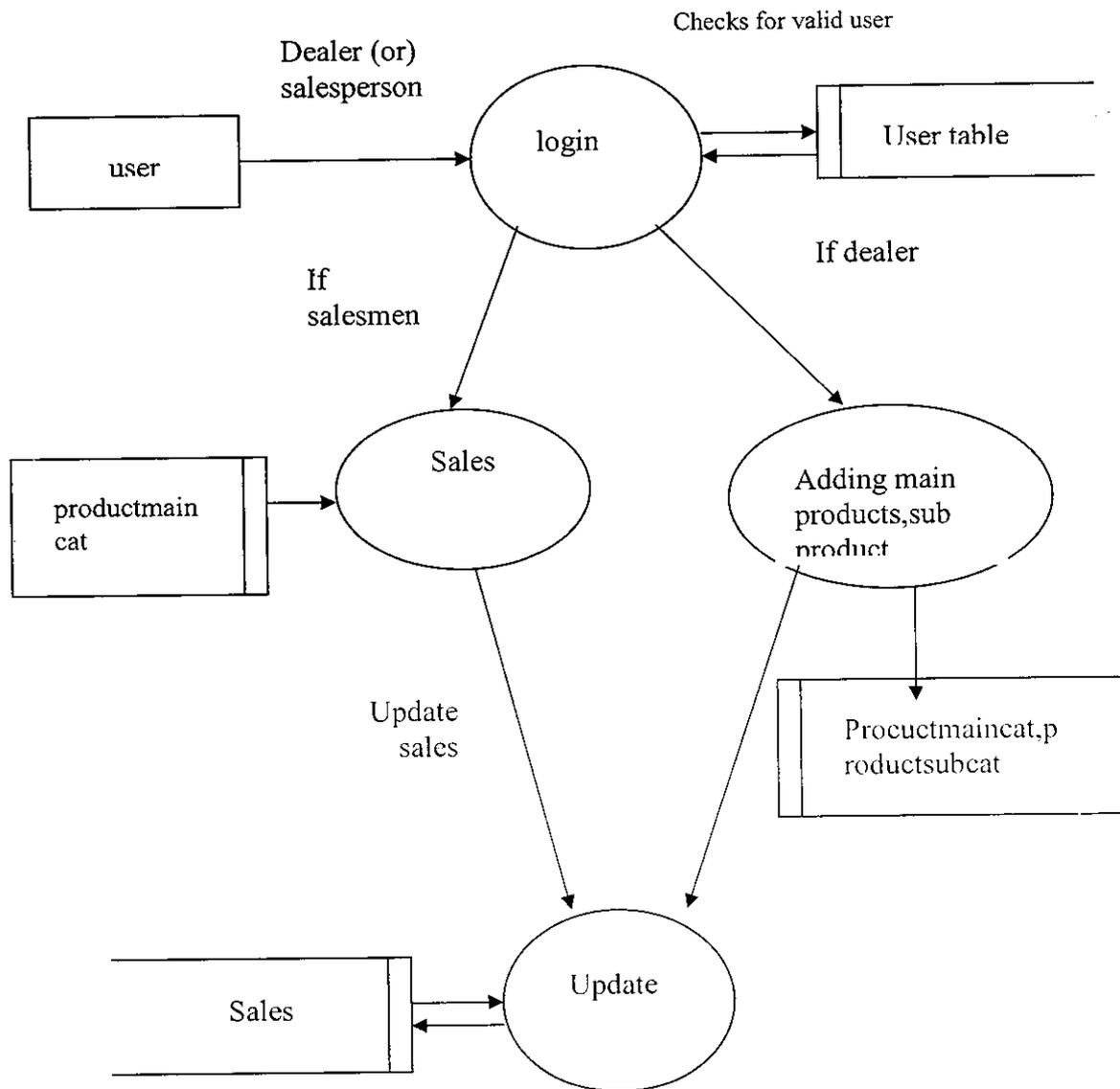
The most important and challenging phase of the system life cycle is system design. The design focuses on the detailed implementation of the system. The first step in system design phase is to determine how the outputs are produced and in what format. Secondly, input data and the tables have to be designed to meet the requirements of proposed system.

System Design is the process of developing specifications for a system that meet the criteria established in system analysis. The major step in design is the preparation of input design and design of output reports in a form acceptable by the user. System Design includes input to the system and the speed of retrieval of data.

Design is the first step of the development of the system. Design will be perfect only if the data collection is done properly with out errors. Design is the base of the development of the system. While designing all possibilities of the system is taken into consideration.

This chapter describes the data model and process model of the application.

#### 4.1 DATA FLOW DIAGRAM



**Fig 4.1.1 Data flow diagram for Axpert Device Integration System**

## 4.2 DATABASE DESIGN

Database design is designed to manage large bodies of information. These large bodies of information do not exist in isolation. Database design mainly involves the design of the data base schema. The design of the complete database application environment meets the needs of the enterprise being modeled requires attention to a broader set of issues.

The process of moving from an abstract data model to the implementation of the database proceeds in two design phases. In the logical schema, the designer maps the high level conceptual schema onto the implementation data model of the database system that will be used. The resulting specific database schema will be used in the subsequent physical design phase.

### Table name: ProductMainCat

This table stores the main product of different categories with their creation date and modified date.

Field	Data type	Constraints	Description
Productmaincatid	Int(10)	Primary Key	Main product id
Createdby	Varchar(20)	Not Null	User created
Modifiedon	Date	Not Null	Date of modification
Createdon	Date	Not Null	Date of creation
Maincat	Varchar(20)	Not Null	Main product

Table 4.2.1 Main product details Table

P. 3251



**Table name: ProductSubcat**

This table stores the subproduct details.

Field	Data type	Constraints	Description
Productmaincatid	Int(10)	Foreign Key	Main product id
Productsubcatid	Int(10)	Primary Key	Sub Product Id
Createdby	Varchar(20)	Not Null	User created
Modifiedon	Date	Not Null	Date of modification
Createdon	Date	Not Null	Date of creation
Maincat	Varchar(20)	Not Null	Main product
subcat	Varchar(20)	Not Null	Sub product

**Table 4.2.2 Sub product details table**

**Table name: Userdet**

This table stores the user login details.

Field	Data type	Constraints	Description
Name	Varchar(20)	Not Null	Salesman name
Mobile	Int(20)	Not Null	Mobile number
Email	Varchar(20)	Not Null	Salesman email
Userid	Varchar(20)	Primary Key	Salesman userid
Pwd	Varchar(20)	Not Null	Salesman password

**Table 4.2.2 Userdet details table**

**Table name: Sales**

This table stores the details of the Sales made by salesperson.

Field	Data type	Constraints	Description
Modelno	Varchar(32)	Not Null	Model number
Code	Varchar(32)	Not Null	Serial number
Qty	Int(3)	Not Null	Number of quantity
Billno	Int(3)	Not Null	Bill no
Userid	Varchar(32)	Foreign Key	User name
Edate	Date	Not Null	Sales date
Salesid	Int(30)	Primary Key	Sales id
ProductMaincatid	Varchar(32)	Foreign Key	Productmain category
ProductSubcatid	Varchar(32)	Foreign Key	Product sub category
Billamt	Int(6)	Not Null	Sales amount

**Table 4.2.4 Sales details table**

## **4.3 INPUT AND OUTPUT DESIGN**

### **INPUT DESIGN**

Input design is the process of correcting a user-oriented description of the inputs to a computer based one. Inaccurate data is one of the most common causes of data processing errors. If poor input design, particularly where operators enter data from source documents permit wrong data to enter into a computer system, then it will change the entire process in an unpleasant way. It consists of

- The sequence of field matches the sequence of data or type of data which is going to be entered.
- The data format is well identified for entering or specifying the data

In this project the input design has been done appropriately so that the salesman and dealer did not find any difficulties in handling the system.

### **PROCESS DESIGN:**

The Software process can be identified as a collection of patterns that define a set of activities, actions, work tasks, work products, and related behaviors required to develop computer software. A process provides a method for describing an important characteristic of the software process. By combining patterns, the process that meets the need can be constructed.

The major process in this project is that the salesman have to be send information from different forms from mobile to the database. This has been done with the help of Servlet.

## **OUTPUT DESIGN**

An application is successful only when it can produce efficient and effective reports .A well-formatted report provides a source of reliable information on the website. The outputs are shown to the user as a result of some user input. The output must be shown in a way that a decision can be made easily.

Outputs from a system can be defined as the information being processed and then generated by the system in a specified format. Output design serves the best information source of any system. Once the output is designed it would serve for present and future references. Outputs are carefully designed such that it gives an error free output format.

The Results of the data sent by salesperson are displayed to the dealer in an organized manner after manipulating the data. The dealer can view the test details of all the salesperson who made sales as the sales date, number of items, salesperson name etc. were stored in the system.

## **CHAPTER 5**

### **SYSTEM IMPLEMENTATION**

This chapter describes the implementation process of the application.

#### **5.1 IMPLEMENTATION PROCESS**

System Implementation is the part of the software engineering life cycle, where, the design artifacts are converted to a working application. Coding is done in this stage using an framework and programming language, which would solve the specific problem the best way. Once the design is coded into a working application, it has to be verified, validated and tested in detail. The tested product if successful is deployed in the user environment.

#### **5.2 SYSTEM VERIFICATION**

In Axpert Integration, each module has been verified whether it is working as it is desired. The functionality of the module has been exhibited and verified as it is working properly. Verification also determines whether the system is consistent, adheres to standards, uses reliable techniques and prudent practices, and performs the selected functions in the correct manner. In data access, it verifies whether the right data is being accessed, in terms of the right place and in the right way.

#### **5.3 SYSTEM VALIDATION**

In this project, validation checks whether the developer is moving towards the right product, whether the development is moving towards the actual intended product that was agreed upon in the beginning. Validation also determines if Axpert Integration complies with the requirements and performs functions for which it is intended and meets the goal and user needs. It is traditional and is performed at the end of the project.

Completeness check ensures that all fields in a record are present and are read in the proper sequence. In this project, while entering the Sales details, all the fields has to be entered, else the system will ask to enter the detail in the unfilled field. This has been done during completeness check.

Sequence check verifies that data records are in sequence prior to processing. A check of duplicate records may also be incorporated in the routine. The same salesman cannot have a different salesid.

## CHAPTER 6

### TESTING

Testing is a critical element of software quality and assurance and represents the ultimate review of specification design and coding. It is a vital activity that has to be enforced in the development of any system. This could be done in parallel during all the phases of system development. The feedback received from these tests can be used for further enhancement of the system under consideration.

The main types of testing carried out on Online Assessment system are:

- Unit Testing
- Integration Testing
- System Testing

#### 6.1 Unit Testing

Unit testing focuses verification effort on the smallest unit of the software design the module. The local data structure is examined to ensure that data stored temporarily maintains its integrity.

In Axpert Integration system each page is tested separately as a unit. Initially the flow of control and data through that page is checked. When considering a module as a unit, the flow of data and control through the whole module is tested. The result is stored in the test plan. In a page, each control is further tested in unit testing. The process is done in all the pages of the system.

## **6.2 Integration Testing**

Integration Testing tests the process of integrating the various modules to form the completed system. Integration starts with a set of units each individually tested in isolation and ends when the entire application has been built. Integration testing verifies that the combined units function together correctly. Facilitates in finding problem that occur interface or communication between the individual parts.

Axpert integration System followed top down integration testing. Modules were linked to the main menu in a sequence as required in the real time operating mode of the system. This process is continued from the page level to module level, finally to the system level. In the final stage, the whole system is taken together and tested for integration. The whole set test cases need to be run again to do the regression testing.

## **6.3 System Testing**

System testing is actually a serious of different tests, whose primary purpose is to fully exercise the computer-based system. This helps in verifying that all the system elements have been properly integrated and perform the allocated functions. It verifies the entire product after having integrated all software and hardware components, and validates it according to the original project requirement.

### **6.3.1 Security Testing**

Security testing is important in system testing. Testing is done to ensure that a user with respective rights can only view the various forms and reports presented by Axpert Integration. Only the dealer can enter into the admin option pages. If students or other users try to perform something beyond his assigned rights corresponding messages should be displayed. Then the system displays in such cases displays an error message.

Another security issues involves the sensitive data in the system. The system is highly secure with authentication fixed at various levels of the hierarchy.

### 6.3.2 Stress Testing

Stress Testing executes a system in a manner that demands resources in abnormal quantity, frequency or volume. Axpert Integration system was stress tested by all internal users of authorized service vendors in the project and accessing simultaneously to various modules in the system. All the reports and the screens are tested for their validity and values in the database tables are checked for their correctness and consistency. After successful testing of the system, it was ready for implementation.

## CHAPTER 7

### CONCLUSION AND FUTURE ENHANCEMENT

#### 7.1 CONCLUSION

The project titled “**AXPERT DEVICE INTEGRATION-HANDHELD DRVICES**” was designed keeping in mind to efficiently manipulate sales updation process fully through automated system. The system was tested with different sales records and the performance of the system was found to be efficient. All efforts have been made to understand the system wholly and understand all the details. Much of the process is automated and hence the chance of human errors is limited. More security could have given to the system by the way authorization and further feature could have been added to make the system more robust.

The successful completion of the system resulted in:

- The quality of the sales entry process has been improved.
- The sales updating process has been automated.
- Human error in maintaining sales record been avoided.

#### 7.2 FUTURE ENHANCEMENT

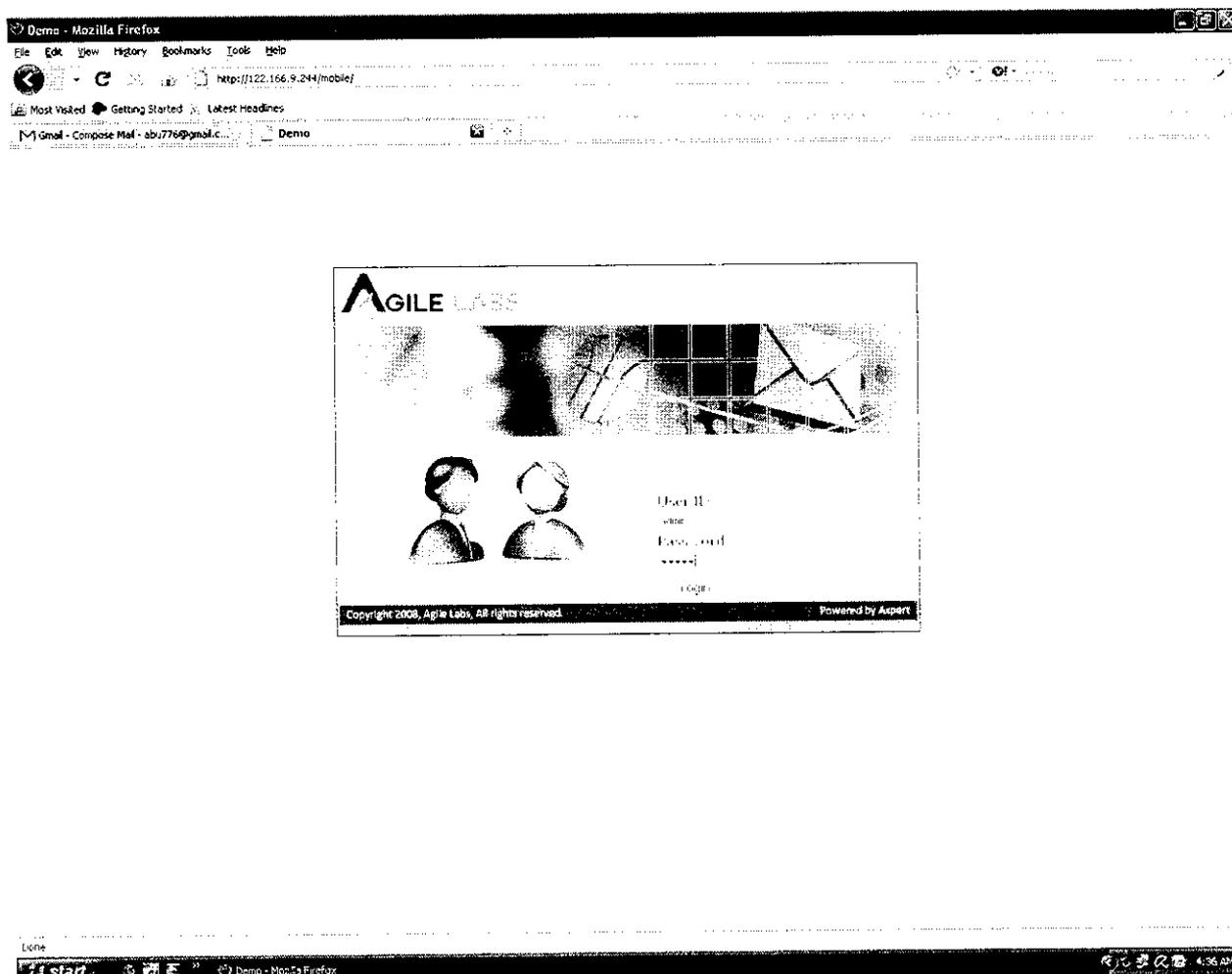
- Addition of dealer selection options.
- SMS communication between dealer and sales person.
- Attendance maintenance in dealer site.

# CHAPTER 8

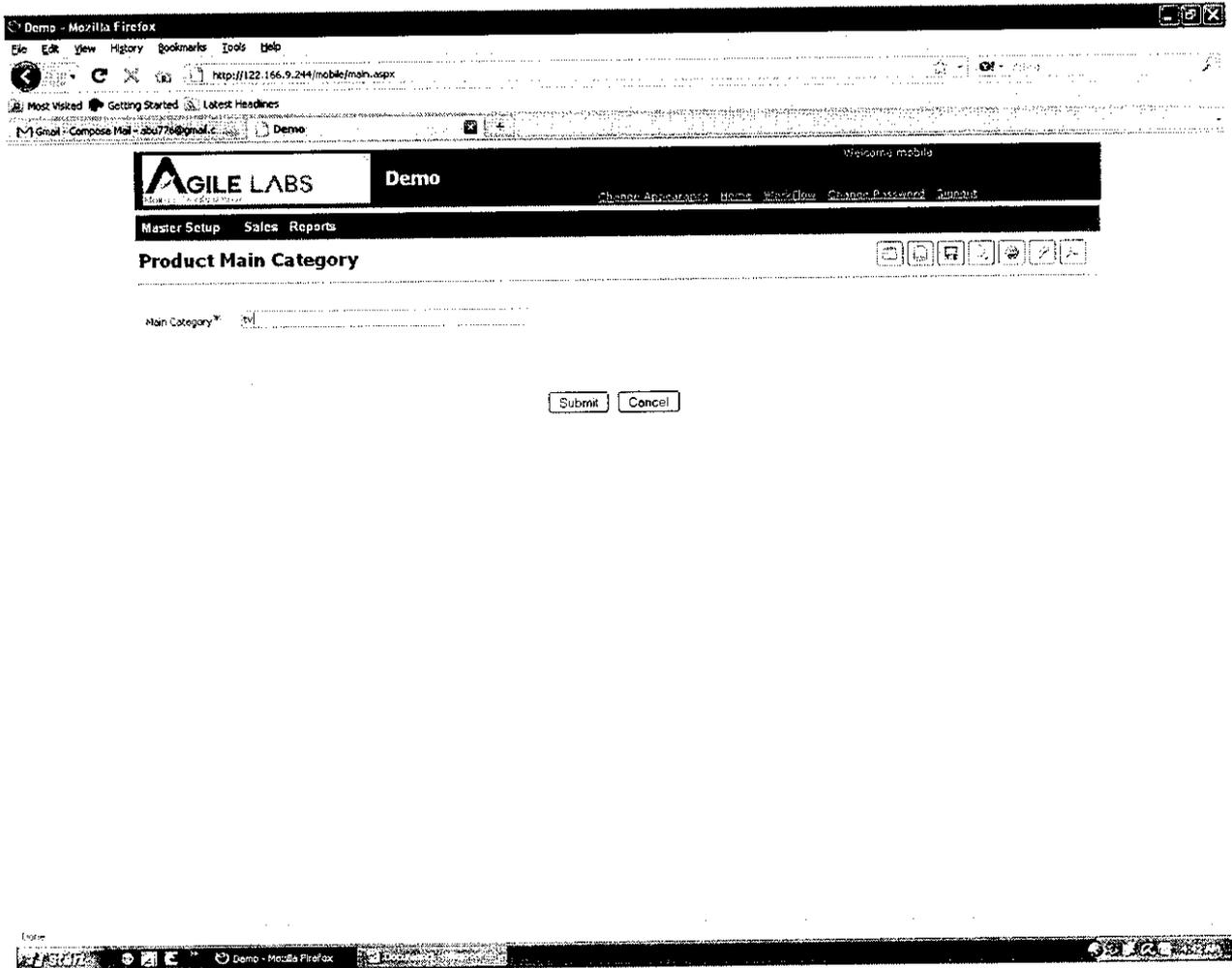
## APPENDICES

### 8.1 SAMPLE SCREEN

#### A.1 LOGIN PAGE



## A.2 PRODUCT MAIN CATEGORY PAGE



### A.3 PRODUCT SUB CATEGORY PAGE



## A.4 SALES PERSON CREATION

The screenshot shows a Mozilla Firefox browser window displaying a web application titled 'Demo'. The browser's address bar shows the URL 'http://122.166.9.244/mobile/jspah.asp'. The application header includes the 'AGILE LABS' logo and the text 'Demo'. A navigation menu contains 'Master Setup' and 'Sales Reports'. The main content area is titled 'Sales Person' and contains a form with the following fields:

Name	sunil
Mobile No.	9994749099
Email Id	silvers@yahoo.com
User Id	sunil
Password	****

Below the form are two buttons: 'Submit' and 'Cancel'. The browser's taskbar at the bottom shows the application title 'Demo - Mozilla Firefox' and the system tray area.

# A.5 SALES

The screenshot shows a web browser window with the following details:

- Browser: Mozilla Firefox
- Address Bar: http://122.166.9.244/mobile/main.aspx
- Page Title: Demo
- Navigation: Home, Workflow, Change Password, Logout
- Menu: Master Setup, Sales, Reports
- Section: Sales
- Form Fields:
  - Main category\*: TV
  - Sub category\*: lg
  - Model No. s\*: k004
  - Code: 00111
  - Qty\*: 1
  - Est. No\*: 114420
  - Bill amount\*: 2,000.00
  - User Id. #: sumil
  - EMail\*: 30/04/2010
- Buttons: Submit, Cancel

## A.6 DAY WISE REPORT

Demo - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://122.166.9.244/mobile/men.aspx

Most Visited Getting Started Latest Headlines

Gmail - Compose Mail - abu776@gmail.c... Demo

AGILE LABS Demo

Welcome enable

Master Setup Sales Reports

Day wise Sales

Date	User ID	Product Category	Sub Category	Qty	Bill Amount
27/04/2010	sunil	Mobile	PDA	1	11
28/04/2010	prabhu	Refrigerator	LCD	1	20
28/04/2010	ra	MicroWave	samsung	1	1
28/04/2010	sunil	TV	LCD	1	1
30/04/2010	prabhu	Printer	HP	1	1
30/04/2010	tamil	Jawa	bbb	2	50

Total no. of records: 6 - Pages: 1 Page No: 1

Done

start Demo - Mozilla Firefox Documents

## A.7 SALES MAN WISE REPORT

Demo - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://122.166.9.244/mobile/man.aspx

Most Visited Getting Started Latest Headlines

AGILE LABS Demo

Welcome mobile

Master Setup Sales Reports

- Salesman wise Sales

From Dt. 26/04/2010 To Dt. 30/04/2010 Go

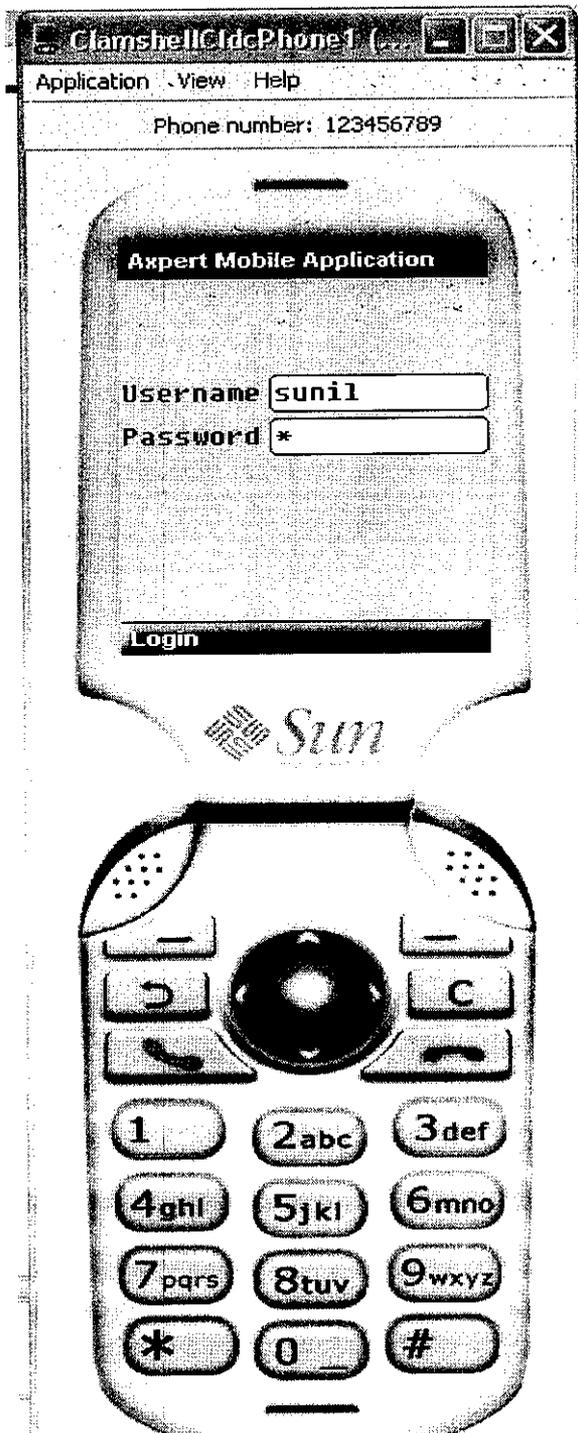
User ID	Product Category	Product Sub Category	Qty	Bill Amount
prabhu	Printer	HP	1	1
prabhu	Refrigerator	LCD	1	20
raj	MicroWave	samsung	1	1
sunit	Mobile	PDA	1	10
sunit	TV	LCD	1	1
tamil	aaa	bbb	2	50

Total no. of records : 6 - Pages : 1 Page No 1

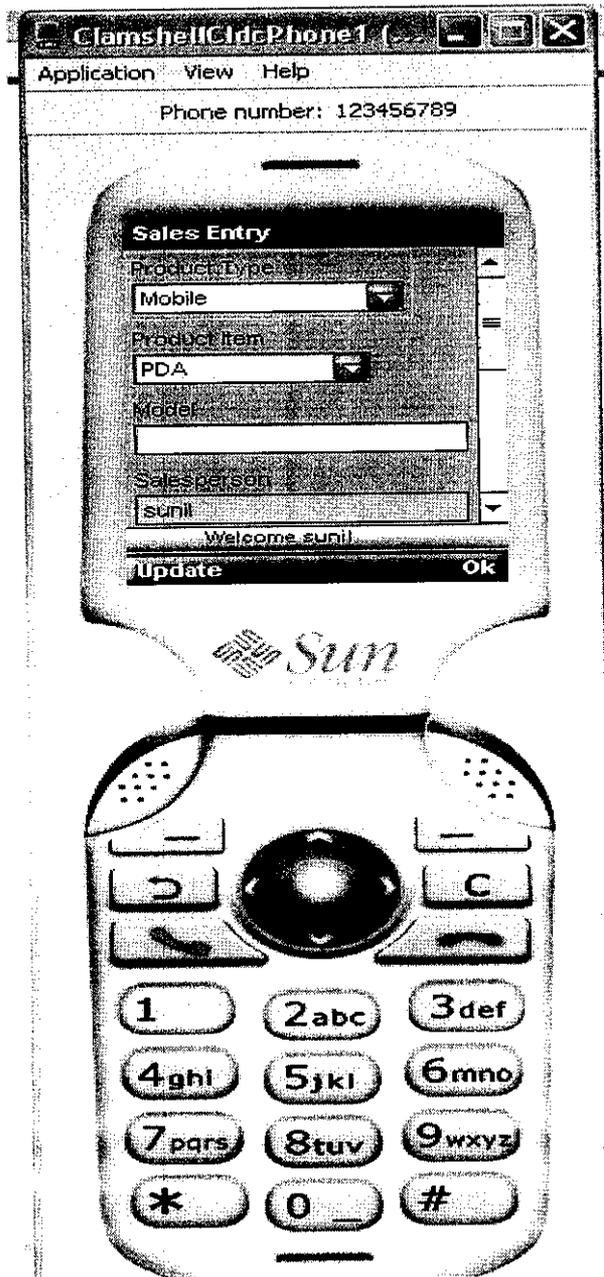
Doc

star Demo - Mozilla Firefox Document - Microsoft

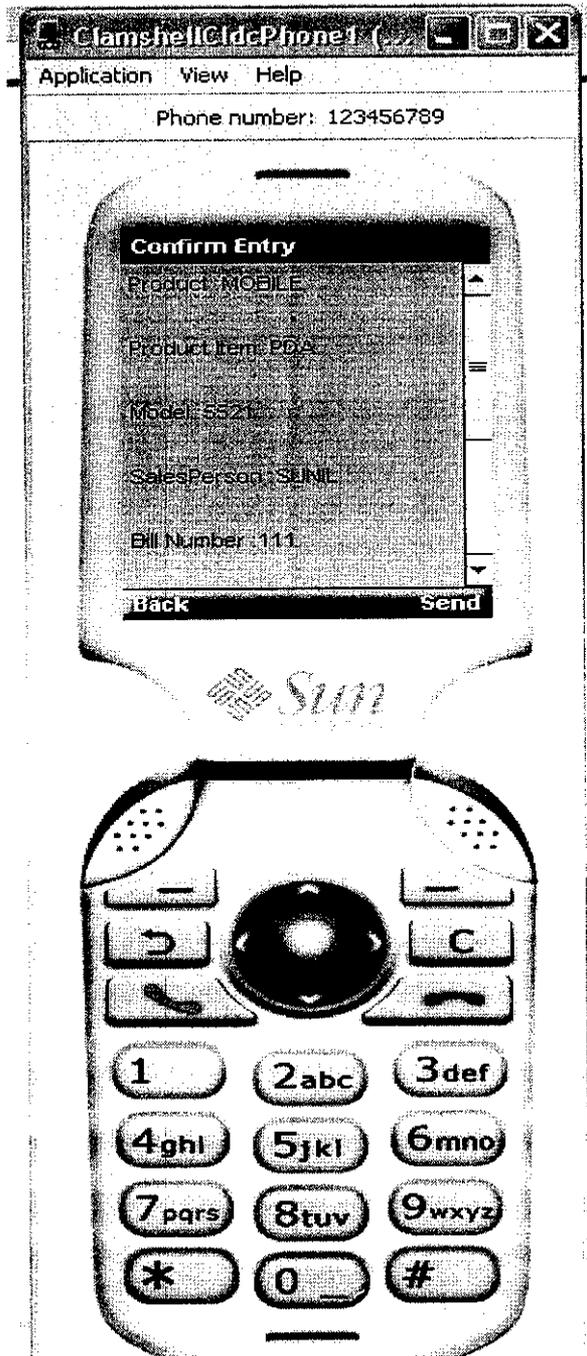
## A.7 MOBILE LOGIN



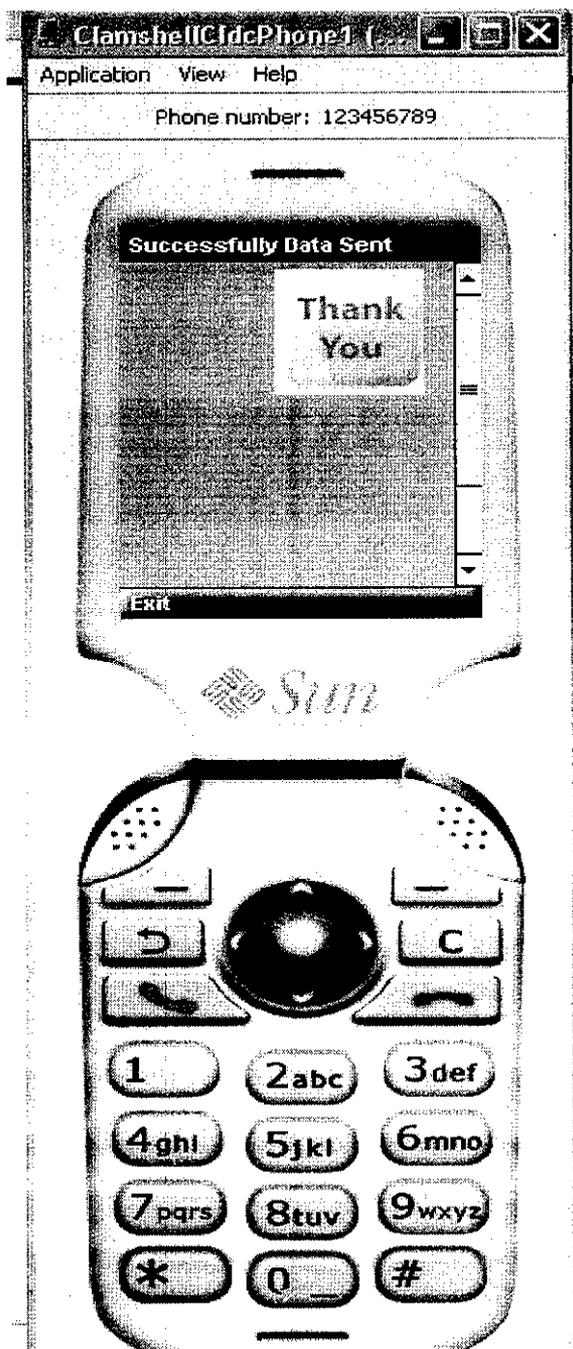
### A.8 MOBILE UPDATION PAGE



### A.9 UPDATION CONFIRM PAGE



### A.10 DATA SENT PAGE



## CHAPTER 9

### REFERENCES

#### 9.1 REFERENCE BOOKS

- **“J2ME:THE COMPLETE REERENCE”**, by James keogh, McGraw-Hill/Osborne.
- **“Beginning MySQL”**, by Robert Sheldon, Geoff Moes, Wrox Press Ltd.
- **“J2ME IN A NUTSHELL”**, by Kim Topley, O'REILLY.

#### 9.2WEB SITES

<http://www.oreilly.com/catalog/j2meanut/>

<http://www.osborne.com>.

<http://www.mysql.com>