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THE TITLE OF THE PROJECT

ONLINE
MOBILE PHONE
SHOP

INTRODUCTION

About Project:

The project **ONLINE MOBILE PHONE SHOP** is to develop an Internet based sale and purchase system for mobile. As mobile market is increasing very sharply and will increase with boom in near future. Visualizing the huge opportunity this is an effort to internationalize the business through Internet. By developing of this portal and keeping the site searchable on Google hence increasing the customer base from a local market to all around the globe.

My ongoing project is a web application because nowadays Internet is a prominent tool of marketing mantra. With the advent of the Internet technologies, world has become a global village. Every year, millions of people around the world use the Internet to interact in more ways then ever before till date. People, who surf on Internet, are thinking about the online purchase because it is very easy and comfortable to order online than going to market and purchase their required goods. So considering a big hike in the revenue in this booming sector and one of the

successful businesses through Internet one should be proud to have such a technical deal.

With the fast growing of communications network like optical fiber, making way to broadband it will be now easy and economical also to access the Internet, whether in monetary or information retrieval term.

The mere existence of the web has been enriching, as it provides a huge diversity of views, take web logs, or blogs, which can assume the form of online diary or message board. The gist of all these is that if the data access retrieval and the goal are placed in a well order on the net by using its technologies, we are not going to loose in any way whether it is the user or the service provider. So a computer has now become helpful in many other cases too:

- Fast retrieval of information around the globe by browsing the net.
- Easy access by seating at home to most of the work places
- Easy database access with the invaluable functions of online entertainment and jobs and placement.

These are the modules that I am going to develop in my proposed project.

Total no. of modules:- 10

1. LOGIN SYSTEM
2. REGISTRATION MASTER
3. THE SEARCH MASTER
4. ITEM MASTER
5. ORDER MASTER
6. THE SITE MASTER (CONTROL PANEL)
7. SHOPPING CART

8. THE VALIDATION MASTER
9. PRODUCT SALE PURCHASE MAILER
10. ADVERTISEMENT HANDLER

OBJECTIVES

Project Objectives:

The objective of the project “**ONLINE MOBILE PHONE SHOP**” is to develop a viable e-marketing system for the purchase and sale of mobile phones.

The major objectives of this project are as follows: -

- Providing an interactive interface for the customer for online sale and purchase of Mobiles, purchase details input, sales details

input, search of the MOBILE type available on the given criteria, online booking of the MOBILE to be purchased, with the facility of the shopping cart using the flavors of H.T.M.L, X.M.L. blended with the power of V.B.NET under the framework of A.S.P.NET. After all interface has a lot to do when proper interaction and attraction is necessary.

- Helping the customer to search his specific MOBILE with a robust search tool.
- Online booking of Mobiles with the delivery status notification system.
- Providing Secured Environment for secured data access wherever necessary.
- Retrieval of data from database using easy buttons, links and interfaces in a very fast and efficient manner.
- On-line updating of all types of data. Updating Data using web based interfaces and with the help of buttons & links in an easy & convenient way.

Developing a viable candidate system that fulfills the following requirements: -

- Faster and accurate information retrieval.
- Easy registration.
- Login dependent information retrieval and updating.
- Correct and consistent maintenance of data and its quick retrieval.
 - Minimizing the page download time and hence less Investment.
 - Improving the switches button and hyperlink so that the candidate shall find all the queries they need at first sight.
 - Maintaining the fast download of the page by using the flavors of cookies.
 - Smooth transition and easy access to the pages not requiring much training to the end user.

The overall objective of the system is to bring the MOBILE sellers and purchasers round the globe closer to each other so that one can have the perfect buy.

PROJECT CATEGORY

The undergoing project falls under **INTERNET TECHNOLOGIES & RDBMS (Relational Database Management System)** category. Since the project is mainly responsible for creation of the portal with the online database at backend. As we know that, the Internet is huge client server architecture. The client is the web browser, it is requesting a web based data, a file, or whatever, from some computer somewhere – anywhere – in the world. The server is that computer that holds the information you want. ASP.NET is a rich programming framework for building web-based applications. It offers outstanding support for both developers and administrators, providing improved ease-of-use, tool support, reliability, scalability, administration and security.

How it works?

ASP.NET is a programming framework built on the common language runtime that can be used on a server to build powerful Web applications. ASP.NET offers several important advantages over previous Web development models:

- **ENHANCED PERFORMANCE:** - ASP.NET is compiled common language runtime code running on the server. Unlike its interpreted predecessors, ASP.NET can take advantage of early binding, just-in-time compilation, native optimization, and caching services right out of the box. This amounts to dramatically better performance before you ever write a line of code.
- **WORLD-CLASS TOOL SUPPORT:** - The ASP.NET framework is complemented by a rich toolbox and designer in the Visual Studio integrated development environment. WYSIWYG editing, drag-and-drop

server controls, and automatic deployment are just a few of the features this powerful tool provides.

- **POWER AND FLEXIBILITY:** - Because ASP.NET is based on the common language runtime, the power and flexibility of that entire platform is available to Web application developers. The .NET Framework class library, Messaging, and Data Access solutions are all seamlessly accessible from the Web. ASP.NET is also language-independent, so you can choose the language that best applies to your application or partition your application across many languages. Further, common language runtime

Interoperability guarantees that your existing investment in COM-based development is preserved when migrating to ASP.NET.

- **SIMPLICITY:** - ASP.NET makes it easy to perform common tasks, from simple form submission and client authentication to deployment and

Site configuration. For example, the ASP.NET page framework allows you to build user interfaces that cleanly separate application logic from presentation code and to handle events in a simple, Visual Basic- like forms processing model. Additionally, the common language runtime simplifies development, with managed code services such as automatic reference counting and garbage collection.

- **MANAGEABILITY:** - ASP.NET employs a text-based, hierarchical configuration system, which simplifies applying settings to your server environment and Web applications, because configuration information is stored as plain text, new settings may be applied without the aid of local administration tools. This "zero local administration" philosophy extends to

deploying ASP.NET applications as well as in ASP.NET application is deployed to a server simply by copying the necessary files to the server. No server restart is required, even to deploy or replace running compiled code.

- **SCALABILITY AND AVAILABILITY:** - ASP.NET has been designed with scalability in mind, with features specifically tailored to improve performance in clustered and multiprocessor environments. Further, processes are closely monitored and managed by the ASP.NET runtime, so that if one misbehaves (leaks, deadlocks), a new process can be created in its place, which helps keep your application constantly available to handle requests.
- **CUSTOMIZABILITY AND EXTENSIBILITY:** - ASP.NET delivers a well-factored architecture that allows developers to "plug-in" their code at the appropriate level. In fact, it is possible to extend or replace any subcomponent of the ASP.NET runtime with your own custom-written component, implementing custom authentication or state services has never been easier.
- **SECURITY:** - With built in Windows authentication and per application configuration, you can be assured that your applications are secure.

The common language runtime provides a complete set of managed data access APIs for data-intensive application development. These APIs help to abstract the data and present it in a consistent way regardless of its actual source (SQL Server, OLEDB, XML, and so on). There are essentially three objects you will work with most often: connections, commands, and datasets.

- A connection represents a physical connection to some data store; such as SQL Server or an XML file Through ADO.NET.
- A command represents a directive to retrieve from (select) or manipulate (insert, update, delete) the data store.
- A dataset represents the actual data an application works with. Note that datasets are always disconnected from their source connection and data model and can be modified independently. However, changes to a dataset can be easily reconciled with the originating data model.

As we know that the database is a repository for stored, operational data in a database environment and common data are available and used by several users. Instead of each program (or user) to manage its own data, the data across applications are shared by all authorized users with the help of database software managing the data as an entity.

The general concept behind a database is to handle information as an integrated whole. A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and effectively. The general objective is to make information easy, quick, expressive, and flexible for the user.

In database design specific objectives are considered: -

- **Ease of learning and use.**
- **More information at low cost.**
- **Accuracy and integrity.**

- **Recovery from failure.**
- **Performance.**

In this way, *S.Q.L server 2000* is one of the leading R.D.B.M.S. software in the world. It is characterized by the quick retrieval of information from huge tables. This quality allows it to cater to the ever-changing business needs of the present age. It supports fourth generation language, SQL, thereby making it easier for the customers to grasp it, a development language where complicated procedures, functions etc. can be used. In the *S.Q.L server 2000* include following features:

- **Queries**
- **Constraints**
- **Procedures**
- **Triggers**
- **Batch implementation**
- **Functions**
- **Bulk copy utility**
- **Cursors**
- **Stored procedures**

DATA FLOW DIAGRAM

Data Flow:

An arrow represents a data flow; it represents the path over which data travels in the system. A data flow can move between processes, flow into or out of data stores, to and from external entities.

Bubbles (Process):

A circle or bubble represents that transforms data from one form to another by performing some tasks with the data.

Data store:

A data store is a place where data is held temporarily from one transaction to the next or is stored permanently.

External Entity:

Which defines a source or destination of system data also called an external entity. Based on the working process of the proposed system Data Flow Diagram (DFD), is a model, which gives the insight into the information domain and functional domain at the same time can be drawn using OMT symbols. DFD is refined into different levels. The more refined DFD is more details of the system

are incorporated. In the process of creating a DFD, we decompose the system into different functional subsystems. The DFD refinement results in a corresponding refinement of data.

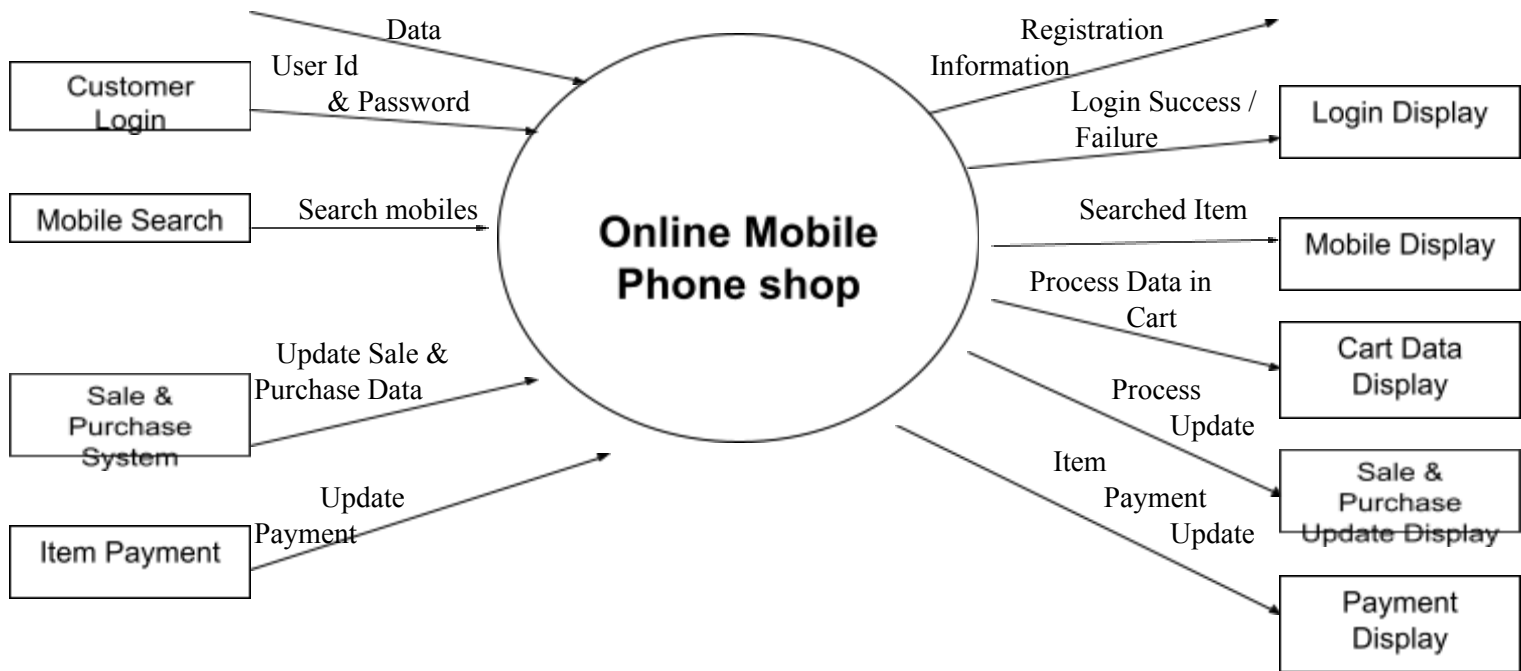
The DFD of the “ONLINE MOBILE PHONE SHOP”

Each break-up has been numbered as per the rule of DFD. Here we attempted to incorporate all the details of the system and still it requires further improvement since the entire system is under study.

0 LEVEL D.F.D.:-

This is the context level D.F.D. of the proposed system the whole system has been depicted in a single bubble, primary input and output has been carefully noted and depicted in the way so that information flow continuity should not be lost in the next level. The purposed system is shown as a whole process and the inputs and outputs are shown with incoming and outgoing arrow from the system.

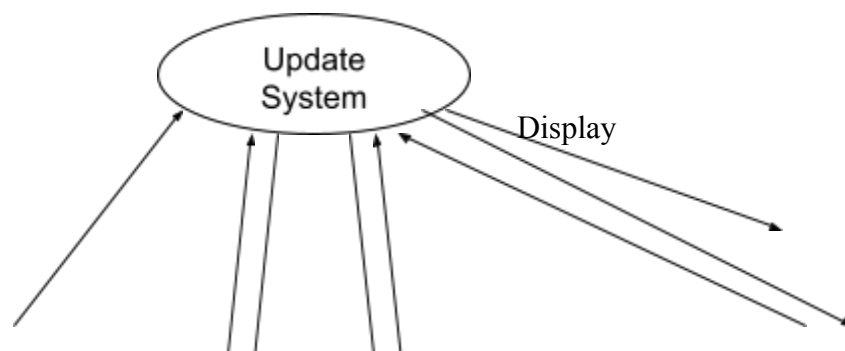


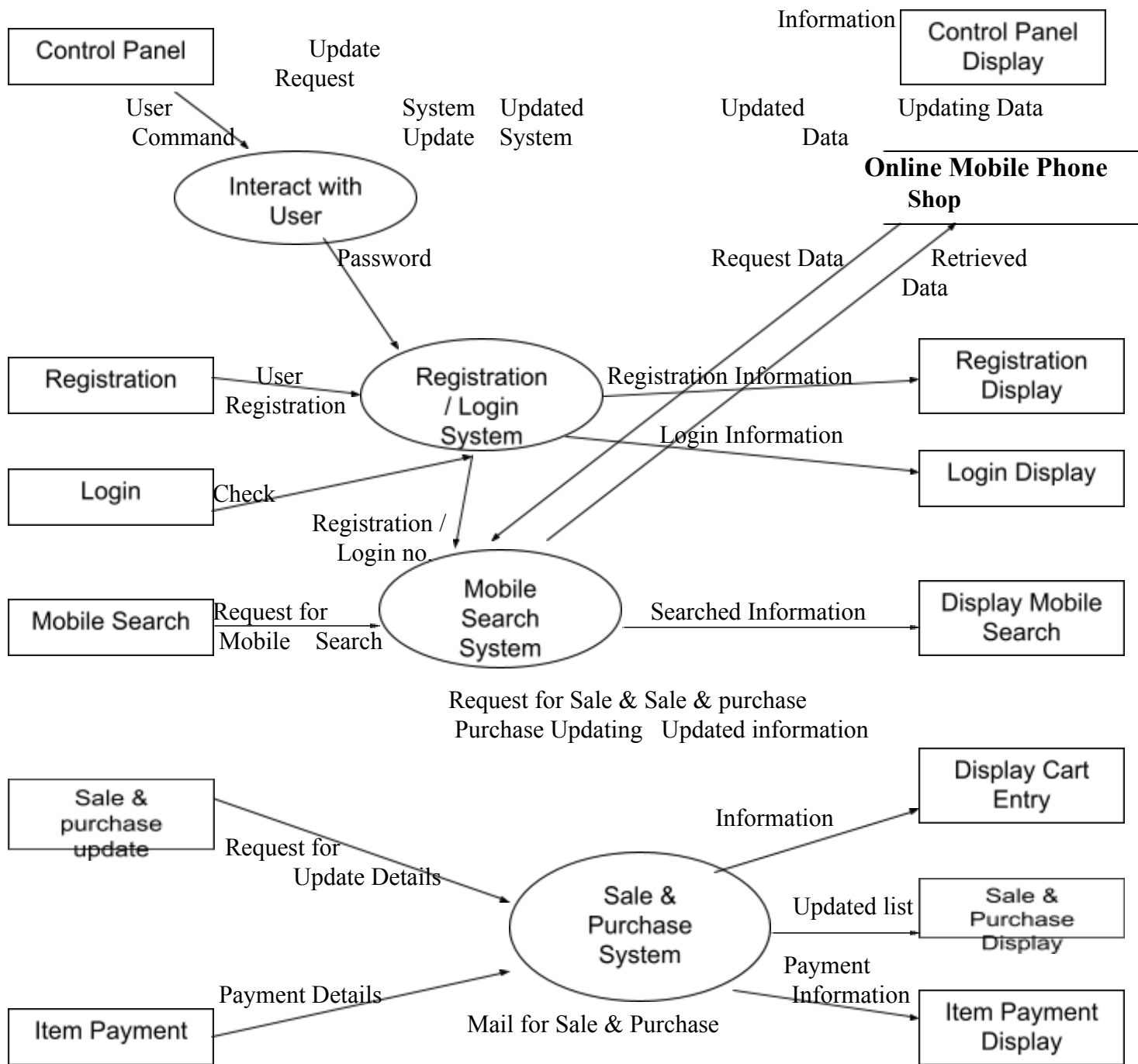


0 LEVEL D.F.D. FOR “ONLINE MOBILE PHONE SHOP”

1ST LEVEL D.F.D.:-

This D.F.D. shows all the processes together with all the data stores (tables). It shows the true data flow i.e. how data is actually flowing in the system. Data is coming from which table and going into which table is clearly shown by this DFD. This DFD is the main reference for the development of the system. After understanding the whole system, the application developer will fall back upon this DFD during the Development phase.





1st LEVEL D.F.D.

PROGRAM STRUCTURE

Analysis Report:

System analysis is the first step towards the software building process. The purpose of system analysis is to understand the system requirements, identify the data, functional and behavioral requirements and building the models of the system for better understanding of the system.

In the process of system analysis one should first understand that, what the present system, what it does, is how it works (i.e. processes). After analyzing these points we become able to identify the problems the present system is facing. Upon evaluating current problems and desired information (input and output to the system), the analyst looks towards one or more solutions. To begin with, the data objects, processing functions, and behavior of the system are defined in detail. After this models, from three different aspects of the system-data, function and behavior. The models created during the system analysis process helps in better understanding of data and control flow, functional processing, operational behavioral and information content.

Working Process of Proposed System:

- To be the user of the site you need a registration.
- After that one can use the site for to sell or purchase of different mobiles.
- On each mobile a fixed commission is charged by the company, which is being deducted from the rate the product was sold.

- The user information is kept secret from other user as a company policy because the whole business is the game of contact.
- When user visits the portal main page he is shown different offers and advertisements through which he can update his knowledge regarding the MOBILE available for sale. Besides that he can search for specified MOBILE in our database, if he is interested and needs to book a MOBILE or to sale then he needs a registration to be the member of the site.

The proposed system contains the following main processes: -

The candidate registration & login: -

LOGIN

- As the system is candidate dependent so proper user-id and password based candidate system is necessary to accomplish the fact. Whatever and however the system is to maintain the candidate status and specific user enabled services as well as to track the candidates surfing for security and privacy reason.
- Based on the login he is linked to the appropriate page. If the user is not registered on the site, he is linked to the Registration page.
- A login status and log is maintained to find who and from where login for which purpose and also to find the number of time a user logins.

REGISTRATION

- A candidate registration asking for name, address and other credential for further interaction is taken.
- He is asked to register with the unique id and password as well some initial information is taken such as e-mail id, address and date of birth etc.
- At the end of registration the user is confirmed.

PRODUCT SEARCH

The user can search freely on different products on our site by simply putting a search if the item is present then he is returned with the matched criteria else he is requested to follow the registration process to keep his searchable product in the database so that if further updating of that product takes place he can be e-mailed.

SHOPPING CART SYSTEM

If a user navigates through the site and finds different things to purchase and books that, this shopping cart simply keeps all his purchased item rate maintained on the server so that there should be no ambiguity of what the user bought and what he left.

ORDER MASTER

After selecting different products in shopping cart users confirm their order to the site. All information related to the product, users and their shipping details must be saved in database so that the product will ship on right time and right place.

PAYMENT MASTER

All payment related information are handled after the order confirmation. User must pay either online through credit card or in cash at the time of delivery of product.

SELL & PURCHASE MAINTENANCE SYSTEM

As this site is mainly associated with the sale and purchase so, a robust sale and purchase maintenance system is always needed to maintain the data.

1. PROJECT DESCRIPTION

PROJECT MODULES:

The proposed website will have its main page and will be mainly divided into partially dependent and partially independent modules as: -

- 1. LOGIN SYSTEM**
- 2. REGISTRATION MASTER**
- 3. THE SEARCH MASTER**
- 4. ITEM MASTER**
- 5. ORDER MASTER**
- 6. THE SITE MASTER (CONTROL PANEL)**
- 7. SHOPPING CART**
- 8. THE VALIDATION MASTER**
- 9. PRODUCT SALE PURCHASE MAILER**
- 10. ADVERTISEMENT HANDLER**

These modules with their sub module are described below: -

1. LOGIN MASTER: -

Login master is the module which checks for a valid candidate when the user enters his user-id, password and link to the correct page or denies and link to the registration page.

As user id rules the system so a person is known by his uniqueness of his user id. As it is to provide the viable candidate system .so the user id is being validated with password in different cases to validate the genuineness of the candidate.

This module keeps the status of who and when logged in and for which purpose and how much time.

2. REGISTRATION MASTER:-

This module deals with the different states of registration as:

- A. Registration form display.
- B. Client side validations being handled by validation master.
- C. Unique user id checker (checks that the user id being entered by the candidate is unique or not.)
- D. Auto user id generator (generate auto user id in user id field by taking the e-mail id of the user if it is unique or suggest by combining it with some number.)

3. SEARCH MASTER: -

This module is the main module of the project. An enhanced search tool is made to search item of different categories on the basis of item type, item name or the difficult one on the basis of description and criteria given by the visitor of the site.

4. ITEM MASTER: -

This module specially relates with item being searched on the site and are not available, such item and their description are being sent to all the members of the

site, which is being handled by product sale purchase mailer module. A special database is maintained for such items which when uploaded on the site being informed to the party through e-mail.

5. ORDER MASTER: -

It deals with orders being booked and transaction related to a candidate that first books the MOBILE that he wants to purchase and he is asked to send the amount through suitable media to the company account if the transaction succeeds, the booking detail is being deleted from the database and the data is being transferred to the purchase detail or after a limited period the booking detail expires.

6. SITE MASTER:-

The site maintenance master deals with the work related to direct updating of the site. The data necessary to keep the site working, a menu is displayed asking for updation the instance of the site a user wants. As the size of the module directly depend upon the table design and updating. A special control panel is designed for the use of uploading of data in different tables. This is done through a site master account.

IT INCLUDES THE FOLLOWING SUB MODULES: -

1. COUNTRY SERVICES ENTRY
2. STATE ENTRY
3. CARGO COMPANY DETAIL ENTRY

4. MOBILE COMPANY ENTRY

5. MOBILE TYPE ENTRY

6. ENTRIES RELATED TO UPDATION AND MAINTENANCE OF MOBILE BOOKED, SOLD, ACCOUNT MAINTENANCE OFF LINE (SOME OF THE INSTANCES ARE NOT THE PART OF THIS PROJECT)

7. SHOPPING CART SYSTEM:-

If a user navigates through the site and WANTS TO BOOK MORE THEN ONE MOBILE, THEN this SHOPPING CART IS VERY MUCH HELPFUL FOR SUCH CASES. This shopping cart simply keeps his entire purchased MOBILE rate maintained on the server so that there should be no ambiguity of what the user bought and what he left. This is done through maintaining virtual table for each user and a unique session id generated by the system that remains same with the current user session based on that uniqueness is maintained and whatever the person purchase is updated in to the shopping cart, which is being displayed with the amount entered.

8. THE VALIDATION MASTER: -

This basically deals with the validation of different entries done during resume building process. This module specially uses the Client side validation scripting from JavaScript and server side scripting from vb.net to make the system robust reliable and error free. This module as specially integrated with the different pages and forms checks all the discrepancies such as incorrect e-mail, date of

birth, address, etc to finally deal with any wrong entry being done by the user it validates as well as suggests for correct input.

This has different sub modules depending upon the above module.

A). MOBILE UPDATE VALIDATION MASTER

Deals with the validations regarding the updating of product.

B). REGISTRATION VALIDATION MASTER

Deals with the discrepancies in the registration process etc.

9. PRODUCT SALE PURCHASE MAILER:-

This module basically deals with mailing of data to all the members whenever and wherever the module gets called to take the data and mail it to specific suggested or all the members of the portal by using their e-mail addresses from the database.

10. ADVERTISEMENT HANDLER:-

This module deals with add display on our site.

This has following sub modules:

(i) ADD DISPLAY

This sub module displays the addition on the pages on pre-assigned format. This checks for the add being paid as well as the expiration of that add after that it is being automatically removed from the data base.

(ii) ADD ROTATOR (ADD RANDOMIZER)

This randomizes the addition on the basis of priority.

(iii) ADD MAINTAINENCE MASTER

This deals with updating deletion and maintenance of add a unique user id is provided after a fixed amount is paid to the company and the company can update delete or maintain the on the basis of the amount a priority is fixed by us for the no. of time an add should be displayed.

(iv) ADD PAYMENT DETAIL MASTER

This maintains and manages the payment detail related to company displaying the addition.

* Since the project is under study and creation. To accomplish all the purposes of sub module functions may increase.

Site summary

The main group of pages on site will be: -

1. MAIN PAGE: - home page of the site
2. Registration page: - user registration page
3. Login page: - used for login to use the service provided by the site
4. Old MOBILE entry forms
6. Search forms
7. MOBILE details display
8. Shopping cart frame
9. Control panel pages (site updating and maintenance)
10. Payment details pages and forms
11. MOBILE booking pages
12. Delivery status information pages.

*Most of the pages which are dynamically created when the client requests for the page using the robustness of ASP.NET framework (V.B.NET) blended with the simplicity of H.T.M.L and versatility of X.M.L have dynamically generated pages.

2. DATABASE TABLE

Table Structure:

There will be 17 tables in the **ONLINE MOBILE PHONE SHOP**. The normalized form of the table with their structures is described as under: -

Table 1: Login

Field Name	Type	Description	Constraint
USER_ID	NVARCHAR	User id (unique)	PRIMARY KEY
PASSWORD	NVARCHAR	Password	
NAME	VARCHAR	Candidate name	
ADDRESS1	VARCHAR	Permanent address	
ADDRESS2	VARCHAR	Temporary address	
PHONE1	VARCHAR	Phone(r)	
PHONE2	VARCHAR	Phone (o)	
CELL	VARCHAR	Mobile	
E-MAIL	VARCHAR	Email id	
COUNTRY_ID	INTEGER	Country to which belongs	FOREIGN KEY
STATE_ID	INTEGER	State	FOREIGN KEY
REGIS_DATE	DATE	Registration date	

Table 2: Mobile Details

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User id	FOREIGN KEY
ITEM_NO	INTEGER	Item no	PRIMARY KEY
MOBILE_NAME	VARCHAR	MOBILE name	
QOTED_PRICE	INTEGER	Price	
ABOUTMOBILE	VARCHAR	About item	
ALTERNATIVE_PRESENTATION	VARCHAR	Web address	
KEYPOINTS	VARCHAR	Summary	
MOBILE_COMPANY_ID	NUMERIC	Manufacturer id	FOREIGN KEY
MOBILE_MODEL_ID	NUMERIC	Model detail	
MOBILE _MANUFACTURED_DATE	DATE	Date manufactured	
MOBILE_TYPE	VARCHAR	Petrol/Diesel	

WHETHER_PAID	INTEGER	Yes/no	
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Table 3: Mobile Booked

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User id	FOREIGN KEY
ITEM_ID	INTEGER	Item id	FOREIGN KEY
NO_OF_ITEM	INTEGER	No of item	
RATEOF	NUMERIC	Unit rate	
BOOKING_DATE	DATE	Booking date	
BOOKED_ID	INTEGER	Booking id (unique)	PRIMARY KEY

Table 4: MOBILE Picture

Field Name	Type	Description	Constraint
ITEM_ID	NUMERIC	Item id	FOREIGN KEY
PICTURE_ID	NUMERIC	Picture id (unique)	PRIMARY KEY
PICTURE	PICTURE	Picture	
PICTURE_NAME	VARCHAR	Picture name	
PICTURE_DETAILS	VARCHAR	Picture	
DATE	DATE	Date of upload	

Table 5: MOBILE Enquiry

Field Name	Type	Description	Constraint
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USER_ID	VARCHAR	Id	FOREIGN KEY
MOBILE_TYPE_ID	INTEGER	Id	FOREIGN KEY
MOBILE_NAME	VARCHAR	Item enquired name	
MOBILE_DETAIL	VARCHAR	Item detail	
UNIQUE_ID	INTEGER	Unique id for each enquiry	PRIMARY KEY
PRICE_RANGE	VARCHAR	Price	
KEYPOINTS	VARCHAR	Summary	
MOBILE_COMPANY_ID	NUMERIC	Manufacturer id	FOREIGN KEY
MOBILE_MODEL_ID	NUMERIC		FOREIGN KEY
MOBILE_COLOUR	VARCHAR		
MOBILE _MANUFACTURED_DT	DATE	Date	
MOBILE_TYPE	VARCHAR		
WHETHER_INSURED	INTEGER	Yes/no	
WHETHER_INSURANCE_PAID	INTEGER	Yes/no	
DOES_LOAN_REMAINS	INTEGER	Yes/no	

Table 6: Response

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User Id	FOREIGN KEY
UNIQUE_ID	INTEGER	Id	FOREIGN KEY
RESPONSE_USER_ID	VARCHAR	User id who response	FOREIGN KEY
RESPONSE_DETAILS	VARCHAR	Details	FOREIGN KEY
ITEM_PICTURE_ID	PICTURE		FOREIGN KEY
RES_DATE	DATE	Date responded	
ITEM_ID	INTEGER	Item id	

Table 7: Item Payment

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User id	FOREIGN KEY
PAYMENT_ID	NUMBER	Payment (unique)	PRIMARY KEY
ITEM_ID	NUMBER	Item	FOREIGN KEY
BOOKED_ID	INTEGER	Booked id	FOREIGN KEY
ITEM_NO	INTEGER	Item no	FOREIGN KEY
RATEOF	NUMERIC	Rate	
TOTAL_PAYMENT	NUMERIC	Payment	
BYMODE	VARCHAR	Bankcheque/draft/cash/ transaction	
NO	VARCHAR	Transaction no. /cheque/ draft no.	
DATE_ISSUED	DATE	Issuing date	
ISSUING_ORGANISATION	VARCHAR	Bank name	
DATE_EXPIRED	DATE	Date of expiry of draft/ cheque	
CREDIT_ID	NUMERIC	Unique (id)	PRIMARY KEY
DATE_RECEIVED	DATE	Date	

Table 8: Sales Payment

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User id	FOREIGN KEY
ITEM_ID	INTEGER	Item id	
NO_OF_ITEM	INTEGER	No of item	
RATEOF	NUMERIC	Rate	
BYMODE	VARCHAR	Cheque /draft / transaction	
NO	INTEGER		FOREIGN KEY
ORGANISATION	VARCHAR	Bank name	FOREIGN KEY

DATE_SEND	DATE		
WHETHER_RECEIVED	CHAR		FOREIGN KEY
DEBIT_ID	INTEGER	Debit	PRIMARY KEY

Table 9: Login Status Manager

Field Name	Type	Description	Constraint
LOGIN_ID	VARCHAR	User id	FOREIGN KEY
LOGIN_TIME	DATE/TIME	Login time	
LOGOUT_TIME	DATE/TIME	Logout time	

Table 10: Country Services

Field Name	Type	Description	Constraint
COUNTRY_ID	NUMERIC	Country ID	PRIMARY KEY
COUNTRY	VARCHAR	Country	

Table 11: State

Field Name	Type	Description	Constraint
STATE_ID	NUMERIC	Country ID	PRIMARY KEY
COUNTRY_ID	NUMERIC		
STATE	VARCHAR		FOREIGN KEY

Table 12: Mobile Manufacture

Field Name	Type	Description	Constraint
MANUFACTURE_ID	INTEGER	Item Type ID	PRIMARY KEY
MANUFACTURE_NAME	VARCHAR		

Table 13: Mobile Model

Field Name	Type	Description	Constraint
MANUFACTURE_ID	INTEGER	Manufacturer id	FOREIGN KEY
MODEL_ID	INTEGER	Model id	PRIMARY KEY
MODEL_NAME	VARCHAR	Model name	
QUALITIES	INTEGER	Qualities	

Table 14: Delivery Status

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User id	FOREIGN KEY
BOOKED_ID	VARCHAR	Booking id	FOREIGN KEY
C_BOOK_DATE	DATE	Cargo booked in transport	
BOOKING_NO	VARCHAR	Unique booking no by cargo company	
C_C_SITE_ADD	VARCHAR	Cargo company web site	
C_ADD	VARCHAR	Cargo Address	
C_C_PHONE	VARCHAR	Phone of the cargo company	

Table 15: Add Details

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User id	FOREIGN KEY
ADD_ID	INTEGER	Add id	
ADD_LINK	VARCHAR	Linked page	
ADD_LINK2	VARCHAR	Alternative linked pages	
PICTURE	PICTURE	Picture	
PRIORITY	CHAR	Priority level	
DATE_UPLOADED	DATE	Date	
EXPIRY_DATE	DATE	Expiry date	

Table 16: Payment Details

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User id	FOREIGN KEY
AMOUNT_PAID	VARCHAR	Amount paid	
ORGANIZATION	VARCHAR	Organization name	
DD_NO	INTEGER	DD no.	
DATE_RECEIVED	DATE	Date of received	
DATE_EXPIRY	DATE	Expiry date	
WHETHER_RECEIVED	CHAR	Received information	
CREDIT_ID	INTEGER	Credit id	

Table 15: Shopping Cart

Field Name	Type	Description	Constraint
USER_ID	VARCHAR	User ID	PRIMARY KEY

SESSION_ID	NVARCHAR		
ITEM_ID	NUMERIC		
QUANTITY	INTEGER		
RATE_LOCKED	NUMERIC		
DATE	DATETIME		

TOOLS/ PLATFORM USED

For the undergoing project, following tools are used:

Platform	: Windows
The Operating System	: Windows 2000 Professional/XP
Framework	: ASP.NET FRAMEWORK
Front-End Tool	: ASP.NET With VB.NET
Editing Tool	: MICROSOFT VISUAL INTERDEV, NOTEPAD, DREAMWEAVER MX6.0
Scripting	: VB.NET, JAVASCRIPT, JAVASCRIPT.NET
Interface	: H.T.M.L, X.M.L (STYLE SHEET (.XSL))
Server	: INTERNET INFORMATION SERVER
Back-End Tool	: S.Q.L SERVER 2000

HARDWARE: -

Processor	: INTEL PENTIUM-IV 2.1 GHZ
Memory	: 256 M.B., D.D.R. RAM

Network Adaptor	: Ethernet Adaptor
Modem	: 56 Kbps VOICE FAX DATA
Secondary Storage	: SAMSUNG / SEAGATE HARD DISK (80 GB)

1. SOFTWARE REQUIREMENT SPECIFICATIONS

The **software requirement specifications (SRS)** is a very important part of the software building process, which describes the actual user level requirement from technical point of view. I.e. what the user exactly wants? The objective of preparing the software requirement specification is to represent the requirements of the software in such a manner that ultimately leads to successful software implementation. It is the result of the analysis process of the software development. It should contain all the data the software is going to process, the function it will provide, and the behavior it will exhibit.

This Software Requirements Specifications (SRS) is defined in IEEE Std. 830-1993, IEEE Recommended Practice for Software Requirements Specifications.

the synopsis is prepared in the way to fulfill almost all the points needed in S.R.S.

SECURITY MECHANISMS

TESTING & VALIDATION

The approach of web application testing adopts the basic principle for all software testing and applies a strategy and tactics that have been recommended for object oriented system .the following steps summarizes the approach:

1. **The content model for the web application is reviewed to uncover errors.**

2. **The design model for the web application as reviewed to uncover navigation error.**

Use cases derived as part of the analyst activity, allow a web Engineer exercise each usage scenario against the architectural and navigational design. These non-executable test help uncover error in navigation.

3. **Selected processing component and web page is unit tested.**

When web apps are considered, the concepts of the unit changes, each web page encapsulated in itself content navigation link as well as script, form and

applet (processing element). It is not always possible or practical to test each of these characteristics individually.

4. The architecture is constructed and integration tests are conducted.

The strategy for integration testing depends upon the architecture that has been chosen for the web application.

5. The assembled web application is tested for overall functionality and content delivery.

Like conventional validation, the validation of web based systems and application focuses on user visible action and user recognizable output from the system. To assist in the derivation of validation tests the tester should draw upon use cases the use cases provides a scenario that has high likelihood of uncovering errors in user interaction requirement

6. The web application is implemented in a variety of different environmental configuration and is tested for compatibility with each configuration.

7. The web application is tested by the controlled and monitored population of end users.

Finally with the modular concept inside the application it is being also tested for its Reliability:

The system reliability will be insured through data integrity rules built into the database at the backend and the system rules built into the front-end application.

The system will take assurance from the user before making any changes permanent.

MAINTAINABILITY:

The system has been designed taking care of modularity. Faults in the system can be traced to modules.

VALIDATION CHECKS

This will be as such to maintain consistent and persistent information on the web when most of the time the project has to deal with uploads so a minor error will down the impression of the company.

Therefore, validation checks by software itself using the flavors of JavaScript and vb.net manual checks are also necessary as: -

1. Correct entry of data in the form.
2. Correct updating of question and with the most suitable answer etc.

FUTURE SCOPE

SCOPE OF FUTURE APPLICATION: -

Software scope describes the data and control to be processed, function performance, constraints, interfaces and reliability. Function describes in the

statement of scope are evaluated and in some case refined to provide more detail prior to the beginning of the estimation. Because both cost and schedule estimates are functionally oriented, some degree of decomposition is often useful.

We can implement easily this application. Reusability is possible as and when we require in this application. We can update it next version. We can add new features as and when we require. There is flexibility in all the modules. Scope of this document is to put down the requirements, clearly identifying the information needed by the user, the source of the information and outputs expected from the system.

Future scope:

It is directly dependent on the lay stone of the project that is we will have to design a system which when the time passes having a better system initially should not become a joke later.

It is highly likely that the scope will change as the web application project moves forward; the web process model should be incremental. This allows the development team to “freeze” the scope for one increment so that an operational web application release can be created. The next increment may scope changes suggested by a review of the preceding increment, but once the second increment commences, scope is again frozen temporarily. This approach enables the Web App team to work without having to accommodate a continual stream of changes but still recognizes the continuous evolution characteristics of most web

application. Besides that, the following basic quality in the software always safeguards the future scope of the software.

Reusability: -

Reusability is possible as and when we require in this application. We can update it next version. Reusable software reduces design, coding and testing cost by amortizing effort over several designs. Reducing the amount of code also

simplifies understanding, which increases the likelihood that the code is correct. We follow up both types of reusability: Sharing of newly written code within a project and reuse of previously written code on new projects.

Extensibility: -

This software is extended in ways that its original developers may not expect. The following principles enhance extensibility like Hide data structure, avoid traversing multiple links or methods, avoid case statements on object type and distinguish public and private operations.

Robustness: -

Its method is robust if it does not fail even if it receives improper parameters. There is some facilities like Protect against errors, Optimize after the program runs, validate arguments and avoid predefined limits.

Understandability: -

A method is understandable if someone other than the creator of the method can understand the code (as well as the creator after a time lapse). We use the method with small and coherent helps to accomplish this.

Cost-effectiveness: -

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Its cost is under the budget and make within given time period. It is desirable to aim for a system with a minimum cost subject to the condition that it must satisfy all the requirements can be rectified easily. The entire source code is well structured and commented to ensure clarity and readability.

Portability: -

Since it is an Internet based application so its portability and usability depends upon the client connected with the Internet. The interface designed that is the web page designing which is one of the major parts of web application because it is the first impression regardless of the value of its contents interface should grab a potential user immediately.

PROJECT OVERVIEW

This document contains the system and software requirements in terms of what the system will be and what is expected from the system. This will also highlight the system behavior in terms of queries and reports generated by the system. It

contains the user characteristics, access controls, assumptions and dependencies on the system.

The benefit of the system:

Reduce in overheads paper works, zero delays in project completion, etc.