Assignment 5:-

CELLULAR PHONE SYSTEM

1.0PROBLEM DEFENITION :-

The software for cellular phone system has been developed. The system development should contain
the following functions:
1.1 The cell numbers can be added with its information.
1.2 Messages can be sent from one number to the other number
1.3 Information about a cell number can be viewed.
1.4 The inbox and outbox automatically get updated when message is sent and received.

2.0 SRS DOCUMENT FOR CELLULAR PHONE SYSTEM :-

2.1 INTRODUCTION :-

2.1.1 Purpose
2.1.1.1 The purpose of this SRS is to describe the requirements involved in developing a Cellular System.
2.1.1.2 The intended audience is any person who wants to send message to another person will type the message and choose the destination number.
2.1.2 Scope
2.1.2.1 The product is titled Cellular.
2.1.2.2 The product will perform the following tasks
2.1.2.2.1 It enables to transfer messages from one number to the other number.
2.1.2.2.2 It displays information about the particular cell number.

2.2 THE OVERALL DESCRIPTION :-

2.2.1 Product perspective
2.2.1.1 Hardware interfaces
2.2.1.1.1 Hard disk: The database connectivity requires a hardware configuration that is on-line. This makes it necessary to have a fast database system (such as any RDBMS) running on high rpm hard-disk permitting complete data redundancy and back-up systems to support the primary goal of reliability.
2.2.1.1.2 The system must interface with the standard output device, keyboard and mouse to interact with this software.
2.2.1.2 Software interfaces
2.2.1.2.1 Back End: Oracle
2.2.1.2.2 Front End: Microsoft Visual Basic 6.0
2.2.1.3 Operations
2.2.1.3.1 The user mode enables the end users to do the end user operations like to choose a cell number and do the necessary operations.
2.2.2 Product Functions
2.2.2.1 The software transfers the text messages from one cellular number to the other chosen cellular number .

2.2.2.2 The new cellular number can be added should not affect the other existing cellular numbers.

2.2.3 User characteristics

2.2.3.1 The intended users of this software need not have specific knowledge as to what is the internal operation of the system. Thus the end user is at a high level of abstraction that allows easier, faster operation and reduces the knowledge requirement of end user

2.2.3.2 The Product is absolutely user friendly, so the intended users can be the naive users.

2.2.3.3 The product does not expect the user to possess any technical background. Any person who knows to use the mouse and the keyboard can successfully use this product.

2.2.4 Constraints

2.2.4.1 Once the cellular number has been chosen it must ask for the operations to be done.

2.2.4.2 When an operation is chosen the user has to follow the steps displayed by the system to complete it.

2.3 SPECIFIC REQIREMENTS :-

2.3.1 Logical Database Requirements

2.3.1.1 The system should contain databases that include all necessary information for the product to function according to the requirements. These include relation such as cellular number, owner's name, date of birth and address.

2.3.1.2 Cellular details refers to the information such as cellular number, owner's name and the usage.

2.4 FRONT – END DESCRIPTION :-

The front end for the Cellular System is designed using Microsoft Visual Basic 6.0. The front – end contains a user – friendly interface. The form contains a welcome screen that provides an option for the user to select any one of the following:

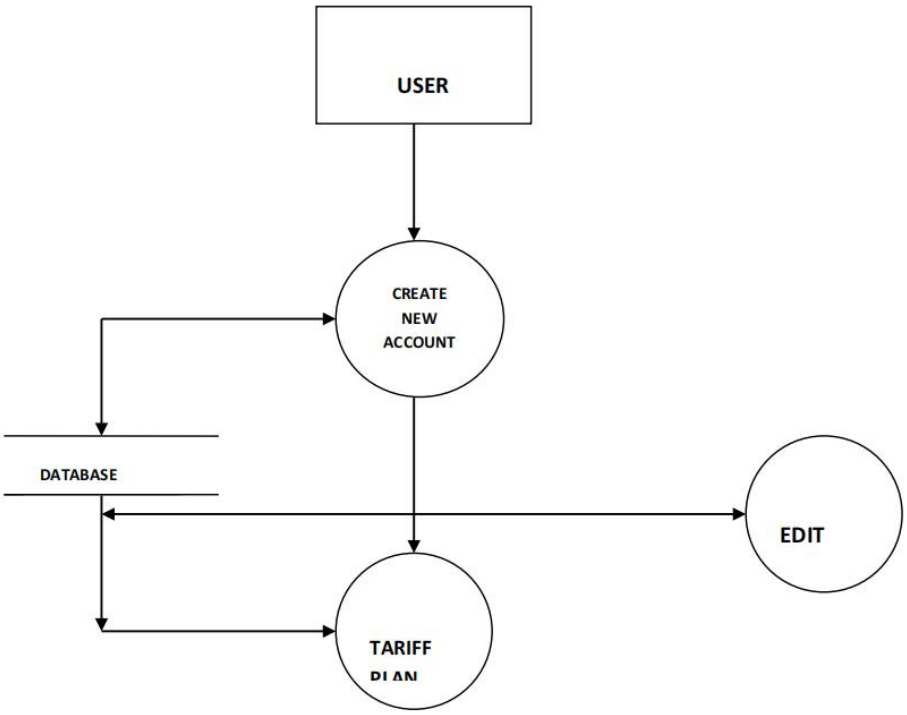
I) Enquiry
II) Message
III) Add new entry

In the enquiry form the user can get the cellular number. In the message form the user can choose a number, type the message and send it to the required number.

2.5 BACK – END DESCRIPTION :-

There are two oracle tables created. One of them consists of cellular number details such as name, number, and address. The other table has the message details such as name, number, inbox and outboxes. This table is referred to at the time of transfer messages.

2.6 DATA FLOW DIAGRAM



3.0 TESTING:

FORM NAME	INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	STATUS
CELLULAR FORM	The user enters a cellular number	Check whether the number is in database	If the number is in the database accept else error message is displayed	Pass
MESSAGE FORM	The message is entered	The inbox must be updated	The inbox was updated	Pass