

**A**

**User Manual for**

**ACEM Information Enquiry via SMS**



## **Using this Manual**

The following manual is designed to familiarize new users with the ACEM Information Inquiry via SMS and to provide extra facilities for the users. This manual will focus on the tasks involved with extracting data from the databases of the information regarding with the college student information such as of result section, account section and detail information of the students.

There are many terms and abbreviations in this manual that may be unfamiliar to you. You can find information about the terms and abbreviations in this manual by searching for them on a search engine such as Google.

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# **1 Introduction**

There are large numbers of users using mobile phones for applications such as home, business and to know information and with the advancement of the technology, SMS has become very popular. Considering these facts in mind we try to build an application called ACEM INFORMATION ENQUERY VIA SMS. The main aim of the project is to present the fundamental concept of SMS related programming logic and the implementation it in the database.

In this project the special SMS from the user is used to query the related requirement. A mobile gateway is used to transfer the SMS from user to server pc using Bluetooth and then output the query back to the user.

## **2 The User Manual**

### **2.1 Message Format and Queries**

To get the required information, the user must send the SMS in the given format:

<section> <student id> <query>

where the section includes Account, Result, Library etc.

We are using bct2004123 as an example student id.

where bct stands for Program,

2004 stands for batch and,

123 stands for class roll number.

### **2.2 For Account Section**

1. ACC <space> bct2004123 <space> total
  - <total> denotes the total amount of fee the student has to pay.
2. ACC <space> bct2004123 <space> month
  - <month> denotes the monthly fee that the student has to pay.
3. ACC <space> bct2004123 <space> semfee
  - <semfee> denotes the semester fee that the student has to pay.
4. ACC <space> bct2004123 <space> examfee
  - <examfee> denotes the Examination fee that the student has to pay.
5. ACC <space> bct2004123 <space> due
  - <due> denotes the remaining amount that the student has to pay

### **2.3 For Result Section**

1. RES <space> bct2004123 <space> 1  
or  
RES <space> bct2004123 <space> I

where I or 1 represents the semester and ranges from 1 to 8.

[NOTE: Both uppercase and lower case are accepted]

## 3 Installing the software

### 3.1 System Requirements

- Nokia 6600 mobile phone
- Bluetooth Dongle
- Microsoft SQL Server 2000 with sp6
- A Server Computer in a Linux Platform with the JDK 1.5 or above installed and with *libbluetooth.dev* support

.

### 3.2 Installation Steps

- Transfer the *ACEMINFO.sis* file to the server mobile(nokia 6600) and install the file in it.
- Store all program files in any location within the root folder on the server computer.
- Install JDK 1.5 or above on the Server Computer. The Installation can be done directly from:

```
sudo apt-get install sun-java6-jdk
```

- Add the bin subdirectory to the PATH

These are the recommended environment settings, assuming you're using a Bash login shell:

```
export AVA_HOME=/usr/local/jdk
PATH=$JAVA_HOME/bin:$PATH
```

### 3.3 Setting up the System

- Place the Bluetooth Dongle in the USB port.
- Setting up the Modem(Nokia 6600)
  - ✓ Open the ACEMINFO file from the main menu
  - ✓ Click on Options

- ✓ Connect
    - It will make the connection between server computer and server mobile. Remember that another corresponding program should be running in the Server computer that accepts the connection from the server mobile.
  - ✓ Force Transfer
    - It will force to transfer any received SMS that has failed to transfer to the Server Computer.
  - ✓ Disconnect
    - It will disconnect the communication link between Server Mobile and the Server Computer if any.
  - ✓ Dispose
    - It will dispose exit) the program.
- Setting up Server Computer
- ✓ Run the Bluetooth listener program in the computer named ACEMINFO.  
The running can be done by:  
*./ACEMSERVER -p data*
  - ✓ Start the Java file named FileInput.java. It is responsible for SMS parsing, quering and generating the reply SMS. The starting can be done by:  
*java -cp ./root/saugat/ACEMINFOserver/sqljdbc/enu/sqljdbc.jar FileInput*
  - ✓ Start the MobileOutput file. It is responsible for transferring of generated SMS. The starting can be done by: *./MobileOutput*