

**CHAPTER – VI**

**SYSTEM ANALYSIS**

- 6.1 Introduction
- 6.2 Menu Format
- 6.3 Screen Format
- 6.4 Report Format

## **6.1 INTRODUCTION**

The computer output is the most important and direct source of information to the user. Efficient and intelligent output from the software established relationship with the user and help in better decision making. The output of the software may be displayed on the screen or printed by the printer according to the output requirement of the user. It should be noted that the output is so designed to meet the satisfaction of the user as well as the requirement of the department or the institute.

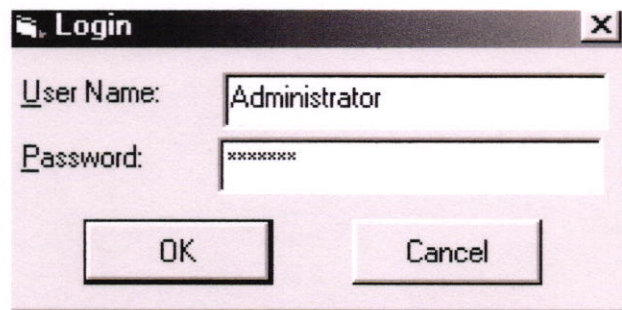
Various types of output required by the most systems are external output whose destination is outside the organization and which require special attention. Internal output whose destination is within the organization requires careful design. Interactive output involves user in communication with the computer.

Developing a system that meets user requirements has led to new techniques and methodologies. The following are few points to fulfill it –

- (i) Improved productivity of analyst and programmers.
- (ii) Improved documentation and subsequent maintenance and enhancement.
- (iii) Improve communication among the user, analyst, designer and programmer.
- (iv) Standardized the approach to analyst and design.
- (v) Simplify design by segmentation.

## 6.2 MENU FORMAT

The menu is the first screen for the **A**ttendance **A**nalysis **S**ystem software after the user logged in and gives the correct password on the password screen. The user name and password screen is given below-

A screenshot of a Windows-style login dialog box titled "Login". It contains two input fields: "User Name:" with the text "Administrator" and "Password:" with masked characters "xxxxxxx". Below the fields are two buttons: "OK" and "Cancel".

When the user logged on as "Administrator" then the following menu with Editing option and Administrative tools will appear. The Administrative tool includes the Create Tables option and change password option. The Menu format will look like as follows -





The above Drop down menu will appear when the user click at Master Entry Option.



The above Drop down menu will appear when the user clicks at Report Option.





The above drop down menu will appear when user click at Tools option.

When the user logged on as "user" then there will be no Editing option in the Menu. Only Administrator can edit the data and can change the password.

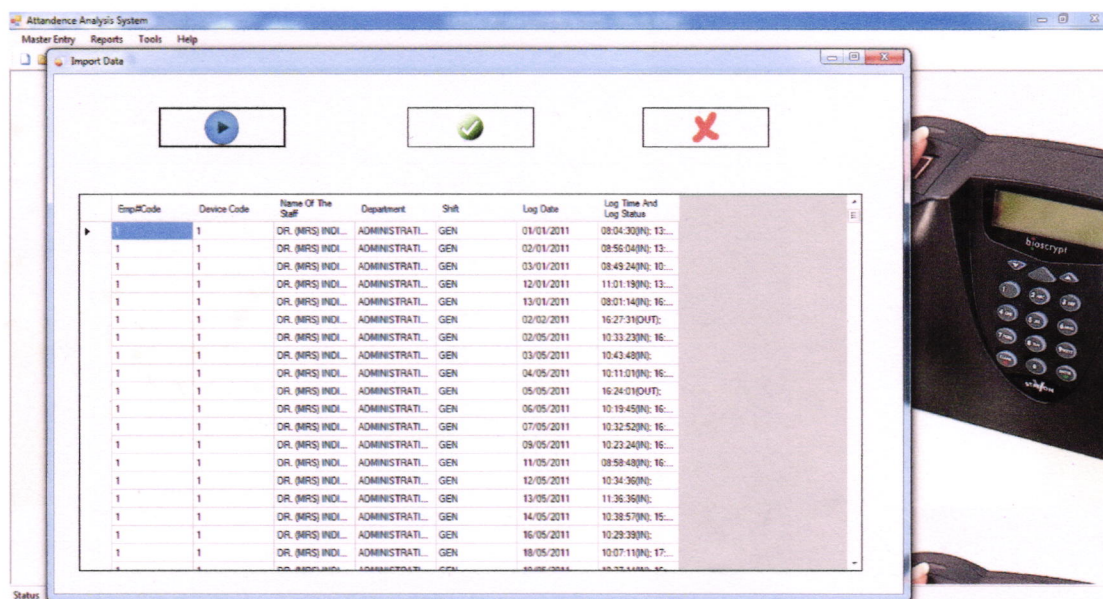
### **6.3 SCREEN FORMAT**

Input design is a crucial part of any system design. Inaccurate input data are the most common cause of errors in data processing. Data entry errors can be controlled by input design. Keeping in view the users requirements, the input screens have been designed and developed for easy and error free data entry. Based on the various types of inputs to be feed to the computer in using the proposed system, several input screen has been designed.

In this section we present several input screens of the applications along with their functionality.

**FORM NAME: IMPORT DATABASE**

**PURPOSE:** To import data from MS-Excel, captured from Biometric device.

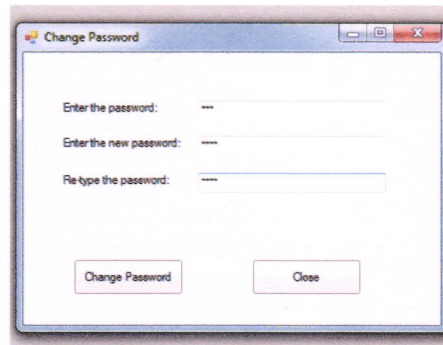
**FORM NAME: CALCULATE WORKING HOURS**

**PURPOSE:** To calculate the daily individual working hour for every employee.



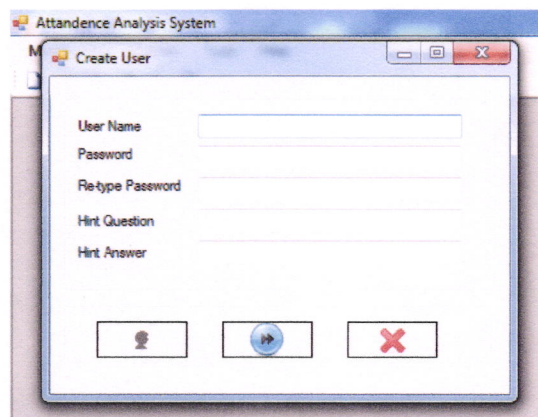
**FORM NAME: CHANGE PASSWORD**

**PURPOSE:** To change the password of the current user and assign a new password.

A screenshot of a Windows-style dialog box titled "Change Password". It contains three text input fields: "Enter the password:" with three asterisks, "Enter the new password:" with four asterisks, and "Re-type the password:" with four asterisks. At the bottom, there are two buttons: "Change Password" and "Close".

**FORM NAME: CREATE USER**

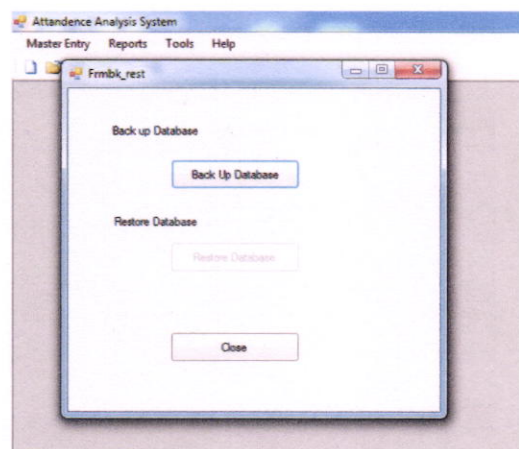
**PURPOSE:** This form is used create a new user who can access the system after specifying the user name and password

A screenshot of a Windows-style dialog box titled "Create User" from the "Attendance Analysis System". It contains five text input fields: "User Name", "Password", "Re-type Password", "Hint Question", and "Hint Answer". At the bottom, there are three buttons: a user icon, a blue arrow button, and a red "X" button.



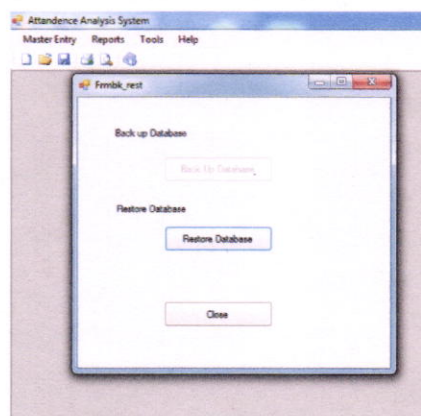
**FORM NAME: BACKUP**

**PURPOSE:** This form is used to take backup of the database in a different drive for the safe keeping of data.



**FORM NAME: RESTORE**

**PURPOSE:** This form is used to restore the backup database from a different drive for the safe keeping of data.





## 6.4 REPORT FORMAT

Computer output is the most important and direct source of information to the user. Efficient, intelligible output design improves the systems relationship with the user and help in decision making. A major form of it is a hard copy from the printer.

In this section we present several reports of the application along with their functionality.

OFFICE OF THE PRINCIPAL HANDIQUE GIRLS' COLLEGE VIP ROAD, GUWAHATI - 781 001									
Detail Attendance Reports									
For the month									
Sl. No	Date	Department	Emp. Code	Staff Name	Shift	In Time	Out Time	Total Duration (in hrs)	
1	25/02/11	BOTANY	17	DR. PRANAB BUDHABARUAH	GEN	10:09:20 AM	4:55:26 PM	6.78	
2	26/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	10:30:56 AM	4:55:26 PM	6.40	
3	3/02/11	BOTANY	17	DR. PRANAB BUDHABARUAH	GEN	8:49:46 AM	4:55:26 PM	8.08	
4	3/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	10:18:46 AM	4:55:26 PM	6.00	
5	4/02/11	BOTANY	17	DR. PRANAB BUDHABARUAH	GEN	10:27:19 AM	4:55:26 PM	6.47	
6	7/02/11	BOTANY	17	DR. PRANAB BUDHABARUAH	GEN	10:01:35 AM	4:55:26 PM	6.86	
7	10/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	9:05:28 AM	4:55:26 PM	7.82	
8	10/02/11	BOTANY	17	DR. PRANAB BUDHABARUAH	GEN	9:31:59 AM	4:55:26 PM	7.35	
9	11/02/11	BOTANY	17	DR. PRANAB BUDHABARUAH	GEN	10:09:43 AM	4:55:26 PM	6.75	
10	11/02/11	BOTANY	13	MR. MADHAB CHANDRA TALUKDAR	GEN	10:37:07 AM	4:55:26 PM	6.30	
11	11/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	9:35:16 AM	4:55:26 PM	7.33	
12	12/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	9:42:35 AM	4:55:26 PM	7.20	
13	13/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	9:52:45 AM	4:55:26 PM	7.03	
14	14/02/11	BOTANY	17	DR. PRANAB BUDHABARUAH	GEN	10:13:23 AM	4:55:26 PM	6.70	
15	14/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	9:17:05 AM	4:55:26 PM	7.63	
16	15/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	10:40:49 AM	4:55:26 PM	6.23	
17	15/02/11	BOTANY	16	MR. JAYANTA KR. MANTA	GEN	9:28:05 AM	4:55:26 PM	7.45	

text1.pdf - Adobe Reader

File Edit View Window Help

Tools Sign Comment

Click on Sign to add text and place signature on a PDF file.

OFFICE OF THE PRINCIPAL  
**HANDIQUE GIRLS' COLLEGE**  
 VIP ROAD, GUWAHATI - 781 001

Detail Attendance Reports

For the month May

Emp. Code 1

Name : DR. (MRS) INDIRA BARDOLOI

Department : ADMINISTRATION

Sl. No	Log. Date	In Time	Out Time	Total (in hours)
1	1/1/2011	8:04:30 AM	4:55:26 PM	8.83
2	1/2/2011	8:56:04 AM	4:55:26 PM	7.98
3	1/3/2011	8:49:24 AM	4:55:26 PM	8.10
4	1/12/2011	11:01:19 AM	4:55:26 PM	5.90
5	1/13/2011	8:01:14 AM	4:55:26 PM	8.90
6	5/2/2011	10:33:23 AM	4:55:26 PM	6.37

Generate Report

Criteria

☐ Department Wise ☐ Individual ☒ All

From Date Friday, June 01, 2012 To Date Saturday, June 30, 2012

Reports

Main Report

From : 1-Jun-12 To : 30-Jun-12

Sl. No	Emp. Code	Name	Department	Date	In Time	Out Time	Total (in hour)
1	1	DR. (MRS) INDIRA BARDOLOI	ADMINISTRATION	1-Jun-12	8:53:06 AM	4:05:34 PM	7.20
2	2	DR. (MRS) ALAKA CHAKRAVORTY	ADMINISTRATION	1-Jun-12	10:33:15 AM	6:05:06 PM	7.52
3	3	MRS. MANIMAYA BORDOLOI BARUA	ASSAMESE	1-Jun-12	11:45:43 AM	5:07:02 PM	5.35
4	5	LAKSHI HAZARIKA	ASSAMESE	1-Jun-12	8:49:50 AM	2:20:58 PM	5.52
5	4	MRS. MANOJYOTSHNA GOSWAMI MAHANTA	ASSAMESE	1-Jun-12	9:37:28 AM	3:05:26 PM	5.45
6	8	MRS. SURABHI BIKSHI BORAH	ASSAMESE	1-Jun-12	9:58:03 AM	3:05:34 PM	5.12
7	7	MRS. SUBHASHREE KALITA	ASSAMESE	1-Jun-12	8:38:24 AM	1:53:04 PM	5.23
8	9	DR. (MRS) PAPIA BHOWMICK	BENGALI	1-Jun-12	8:45:35 AM	4:50:26 PM	8.07
9	12	DR. (MRS) SANTASREE MAI LIK	BENGALI	1-Jun-12	8:46:40 AM	3:12:32 PM	5.75

Current Page No.: 1 Total Page No.: 1+ Zoom Factor: 100%

Actions

Show Reports Close