

## **IDEAL INSTITUTE OF BUSINESS & SCIENCE- 6599**

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### **“CLASS ATTENDANCE MANAGEMENT SYSTEM”**

A project submitted towards for partial fulfillment of the  
requirements for the Degree of Bachelor of Science (B.Sc.) in  
Computer Science and Engineering.

#### **SOFTWARE LAB**

SYSTEM ANALYSIS & DESIGN LAB  
Department of Computer Science  
& Engineering

#### **SUBMITTED TO**

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**TYPE YOUR NAME**

Reg. No. : XXX-XXX  
Session : 2017-18

Ideal Institute Business &  
Science, Dhaka

# **CERTIFICATE**

This is to certify that this report embodies the original work done by **TYPE YOUR NAME** during this project submission as a lab report of System Analysis & Design Lab.

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## **ABSTRACT**

Attendance Management System is software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. The information is sorted by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

## **ACKNOWLEDGEMENT**

The satisfaction that accompanies the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragement crown all efforts with success.

We are grateful to our project guide SAMSUL HAQUE Sir for the guidance, inspiration and constructive suggestions that helped us in the preparation of this project.

We also thank our colleagues who have helped in successful completion of the project.

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# INTRODUCTION

## **Introduction:-**

Attendance Management System is software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. The information is sorted by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

## **Purpose:-**

The purpose of developing attendance management system is to computerized the tradition way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of the session or in the between of the session

## **Scope:-**

The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute. But later on the project can be modified to operate it online.

## **Technology Used:-**

Frontend:-HTML, CSS, JS, Bootstrap 4

Backend: - PHP

Database: - MySQL

## **System Requirement:-**

Minimum RAM:-256 MB Hard Disk:-40 GB

Processor:-Intel Pentium 4 Operating System:-Windows 10 Pro

## **Overview:-**

Attendance Management System basically has two main modules for proper functioning

- First module is admin which has right for creating space for new batch. Any entry of new faculty, Updating in subject if necessary, and sending notice.
- Second module is handled by the user which can be a faculty or an operator. User has a right of making daily attendance, generating report.

## **Attendance can be taken in two ways:**

- On the basis of Subject and month.
- On the basis of Class.



# FEASIBILITY STUDY

### **Economically Feasibility:**

The system being developed is economic with respect to School or Collage's point of view. It is cost effective in the sense that has eliminated the paper work completely.

The system is also time effective because the calculations are automated which are made at the end of the month or as per the user requirement.

The result obtained contains minimum errors and are highly accurate as the data is required.

### **Technical feasibility:**

The technical requirement for the system is economic and it does not use any other additional Hardware and software.

### **Behavioral Feasibility:**

The system working is quite easy to use and learn due to its simple but attractive interface. User requires no special training for operating the system.

### **Working of Present System**

In the present system all work is done on paper. The whole session attendance is stored in register and at the end of the session the reports are generated. We are not interested in generating report in the middle of the session or as per the requirement because it takes more time in calculation. At the end of session the students who don't have 75% attendance get a notice.

### **DISADVANTAGES OF PRESENT WORKING SYSTEM**

- **Not User Friendly:** The existing system is not user friendly because the retrieval of data is very slow and data is not maintained efficiently.
- **Difficulty in report generating:** We require more calculations to generate the report so it is generated at the end of the session. And the students not get a single chance to improve their attendance.
- **Manual control:** All calculations to generate report are done manually so there is greater chance of errors.
- **Lots of paperwork:** Existing system requires lot of paper work. Loss of even a single register/record led to difficult situation because all the papers are needed to generate the reports.

- **Time consuming:** Every work is done manually so we cannot generate report in the middle of the session or as per the requirement because it is very time consuming.

## CHARACTERSTIC OF THE PROPOSEDSYSTEM

- **User Friendly:** The proposed system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently. Moreover the graphical user interface is provided in the proposed system, which provides user to deal with the system very easily.
- **Reports are easily generated:** Reports can be easily generated in the proposed system so user can generate the report as per the requirement (monthly) or in the middle of the session. User can give the notice to the students so he/she become regular.
- **Very less paper work:** The proposed system requires very less paper work. All the data is feted into the computer immediately and reports can be generated through computers. Moreover works become very easy because there is no need to keep data on papers.
- **Computer operator control:** Computer operator control will be there so no chance of errors. Moreover storing and retrieving of information is easy. So work can be done speedily and in time.

## DATA TABLES

### Admin Table:

S.No.	Field name	Data Type	Description
1.	User name	Text	Store user name for checking correct username
2.	Password	Text	Store password corresponding to username
3.	User Type	Text	User Type Administrator or User

### Faculty Members Table:

S.No.	Field name	Data Type	Description
1.	Teacher Id	Number	Unique key for Every Teacher
2.	Teacher Name	Text	Name of Teacher
3.	Teacher Email	Text	Email of Teacher
2.	Teacher Contact Number	Text	Mobile Number of Teacher

### Attendance Table:

S.No.	Field name	Data Type	Description
1.	Student Name	Text	Name of Student
2.	Status	Number	Total number classes attended by particular Student
3.	Semester	Text	In which Semester Student is Studying
4.	Subject	Text	The Subject Wise Attendance Is maintained

### Subject Table:

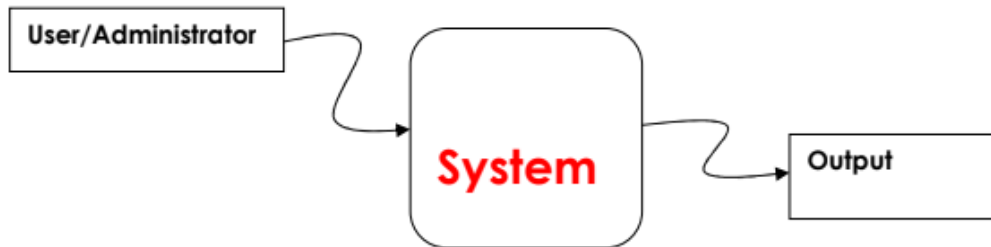
S.No.	Field name	Data Type	Description
1.	Code	Number	Subject code a unique key
2.	Subject Name	Text	Name of Subjects in all semester
3.	Semester	Text	In which Semester student is studying
4.	Faculty	Text	In which Subject Teacher is teaching

### Student Table:

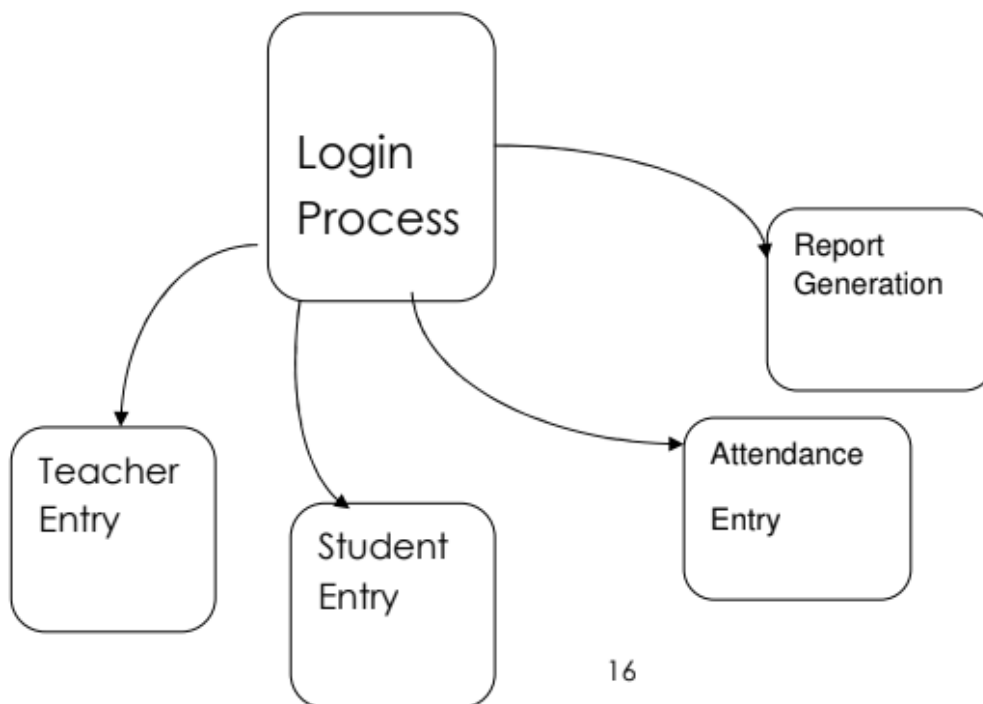
S.No.	Field name	Data Type	Description
1.	Student ID	Number	This is the roll no of the student
2.	Student Name	Text	This is the name of student
3.	Course	Text	This is the course in which the students are studying .By default course is MCA
4.	Semester	Text	This is the semester in which Students are Studying.

# DATA FLOW DIAGRAM

## 0-LEVEL DFD



## 1-LEVEL DFD

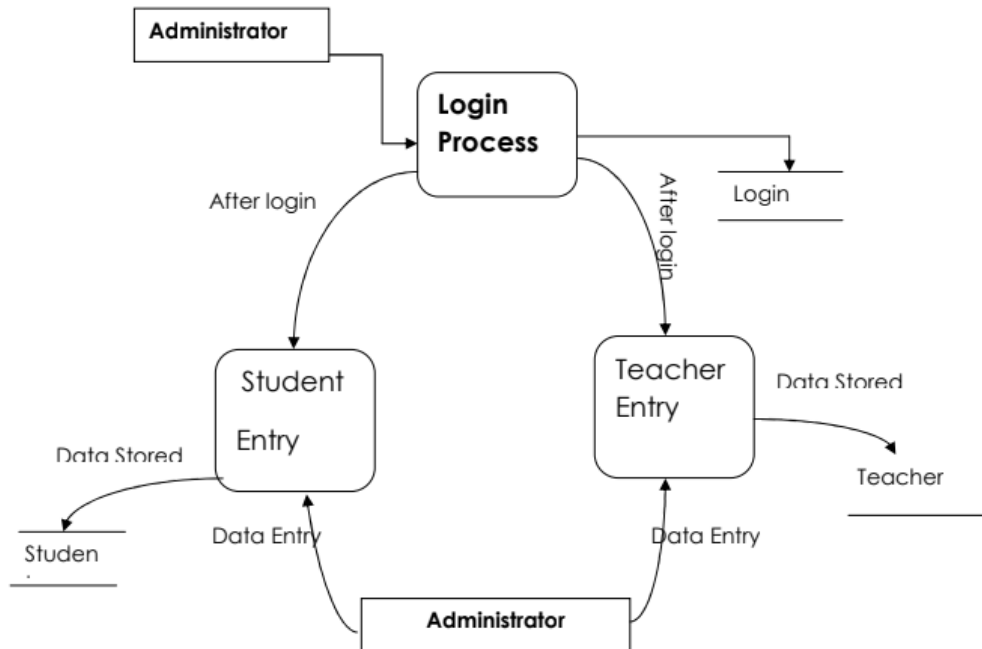


16

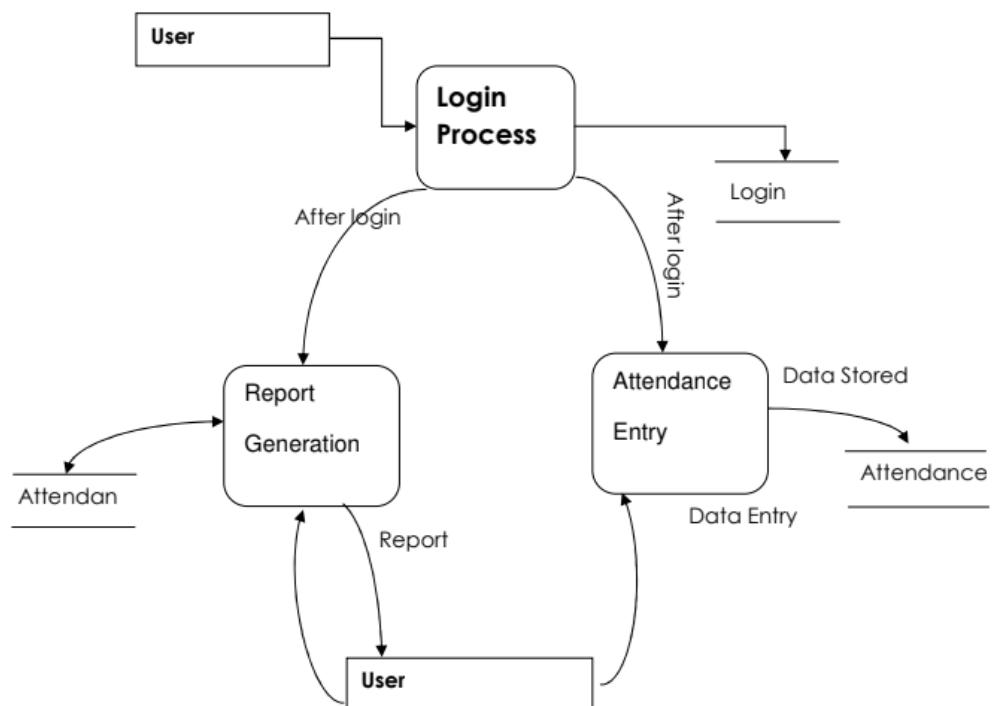


## 2-LEVEL DFD

### 2.1

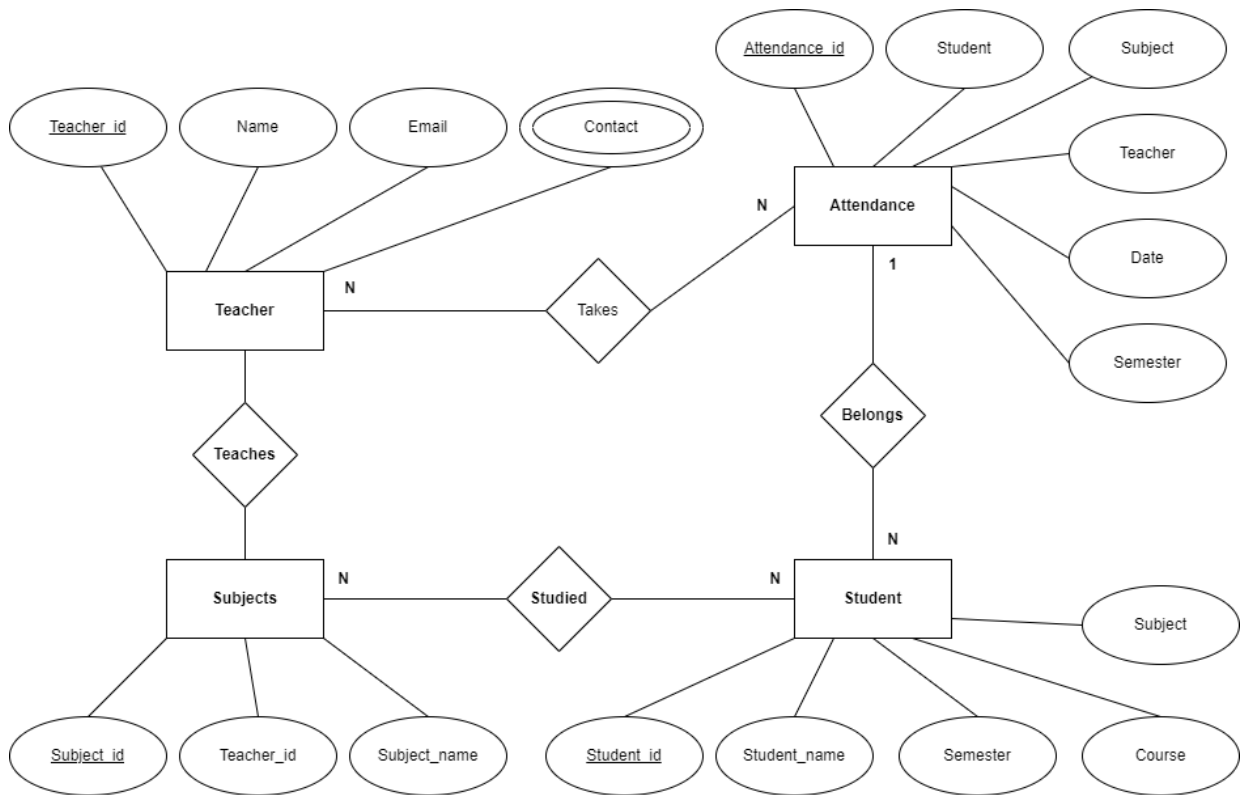


### 2.2



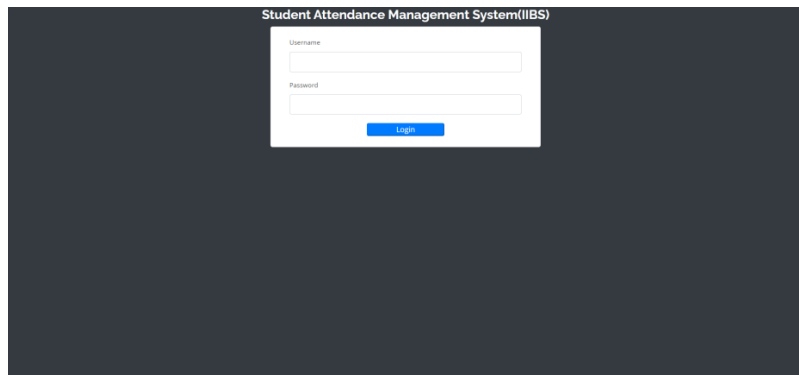
## ER-DIAGRAM

## ENTITY RELATIONSHIP DIAGRAM:



# SCREENSHOTS

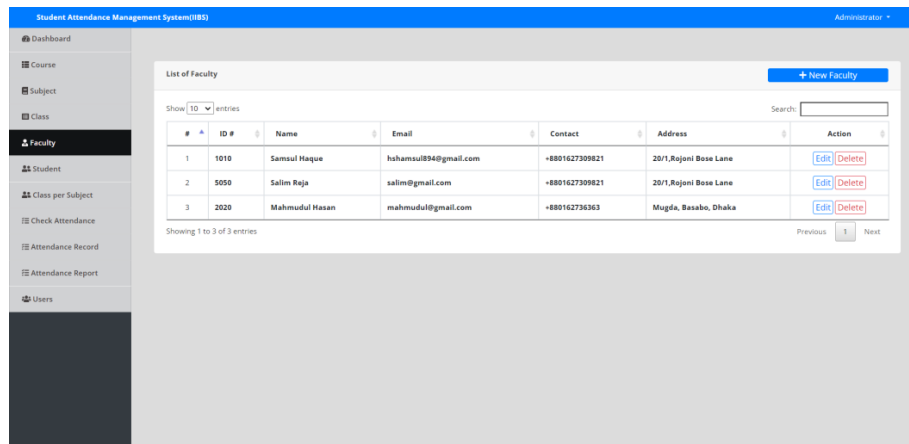
## LOGIN PAGE:



This login Form is made For Security purpose. So only authenticated User only Access in to the Project. There are two type of persons can enter in the project

- Admin
- User/ Teacher

## FECULTY MEMBERS:



#	ID #	Name	Email	Contact	Address	Action
1	1010	Samsul Haque	hsamsul894@gmail.com	+8801627309821	20/1, Rujoni Bose Lane	<a href="#">Edit</a> <a href="#">Delete</a>
2	5050	Salim Reja	salim@gmail.com	+8801627309821	20/1, Rujoni Bose Lane	<a href="#">Edit</a> <a href="#">Delete</a>
3	2020	Mahmudul Hasan	mahmudul@gmail.com	+880162736363	Mugde, Basabo, Dhaka	<a href="#">Edit</a> <a href="#">Delete</a>

This page shows faculty members or teachers.

## STUDENT INFORMATION:

Student Attendance Management System(SBAS) Administrator

Dashboard

Course

Subject

Class

Faculty

**Student**

Class per Subject

Check Attendance

Attendance Record

Attendance Report

Users

List of Student

+ New Student

Show 25 entries

Search:

#	ID #	Name	Class	Action
1	C-1102	Sumon Khan	CSE 1st year-1st semester	<a href="#">Edit</a> <a href="#">Delete</a>
2	112	Sohel	CSE 4th year-8th semester	<a href="#">Edit</a> <a href="#">Delete</a>
3	B-1101	Shorna Akter	BBA 1st year-1st semester	<a href="#">Edit</a> <a href="#">Delete</a>
4	334	Shammi	CSE 2nd year-3rd semester	<a href="#">Edit</a> <a href="#">Delete</a>
5	332	Rial	CSE 2nd year-3rd semester	<a href="#">Edit</a> <a href="#">Delete</a>
6	331	Rakib	CSE 2nd year-3rd semester	<a href="#">Edit</a> <a href="#">Delete</a>
7	113	Nayem	CSE 4th year-8th semester	<a href="#">Edit</a> <a href="#">Delete</a>
8	3101	Mukul Hasan	CSE 3rd year-6th semester	<a href="#">Edit</a> <a href="#">Delete</a>
9	C-1101	Md. Kaium	CSE 1st year-1st semester	<a href="#">Edit</a> <a href="#">Delete</a>
10	111	Iqbal	CSE 4th year-8th semester	<a href="#">Edit</a> <a href="#">Delete</a>
11	C-1103	Fahmida Akter	CSE 1st year-1st semester	<a href="#">Edit</a> <a href="#">Delete</a>
12	B-1102	Ariful Islam	BBA 1st year-1st semester	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 12 of 12 entries

Previous 1 Next

## ASSIGN TEACHER PER CLASS:

Student Attendance Management System(SBAS) Administrator

Dashboard

Course

Subject

Class

Faculty

Student

**Class per Subject**

Check Attendance

Attendance Record

Attendance Report

Users

List of Class per Subject

+ New Entry

Show 10 entries

Search:

#	Class	Subject	Faculty	Action
1	BBA 1st year-1st semester	BBA-1	Salim Reja	<a href="#">Edit</a> <a href="#">Delete</a>
2	CSE 1st year-1st semester	Structured Programming Language	Mahmudul Hasan	<a href="#">Edit</a> <a href="#">Delete</a>
3	CSE 3rd year-6th semester	Theory of Computation	Samsul Haque	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 3 of 3 entries

Previous 1 Next

## USER INFORMATION:

Student Attendance Management System(IIBS)

Administrator

+ New user

Dashboard

Course

Subject

Class

Faculty

Student

Class per Subject

Check Attendance

Attendance Record

Attendance Report

Users

User List

Show 10 entries

Search:

#	Name	Username	Type	Action
1	Administrator	admin	Admin	Action
2	Mahmudul Hasan	mahmudul@gmail.com	Alumnus/Alumna	Action
3	Salim Reja	salim@gmail.com	Alumnus/Alumna	Action
4	Samsul Haque	hsamsul894@gmail.com	Alumnus/Alumna	Action

Showing 1 to 4 of 4 entries

Previous1Next

## SEMESTER OR CLASS INFORMATION:

Student Attendance Management System(IIBS)

Administrator

Dashboard

Course

Subject

Class

Faculty

Student

Class per Subject

Check Attendance

Attendance Record

Attendance Report

Users

Class Form

Please select here

Year

Semester

SaveCancel

Class List

Show 10 entries

Search:

#	Class	Action
1	BBA 1st year-1st semester	EditDelete
2	CSE 1st year-1st semester	EditDelete
3	CSE 2nd year-3rd semester	EditDelete
4	CSE 3rd year-6th semester	EditDelete
5	CSE 4th year-8th semester	EditDelete

Showing 1 to 5 of 5 entries

Previous1Next

## ATTENDANCE FORM:

Student Attendance Management System(IIBS)

Salim Reja

Dashboard

Check Attendance

Attendance Record

Attendance Report

Check Attendance

Class per Subjects

BBA 1st year-1st semester BBA-1 [ Salim Reja ]

08/12/2023

#	Student	Attendance
1	Shorna Akter	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Absent <input type="checkbox"/> Late
2	Ariful Islam	<input type="checkbox"/> Present <input checked="" type="checkbox"/> Absent <input type="checkbox"/> Late

Save

## REPORT FORM:

Student Attendance Management System(IIBS)

Salim Reja

Dashboard

Check Attendance

Attendance Record

Attendance Report

Attendance Record's

Class per Subjects

BBA 1st year-1st semester BBA-1 [ Salim Reja ]

08/11/2023

Filter

Course: CSE

Class: 1st year-1st semester

Subject: BBA-1

Date of Class: Aug 11, 2023

#	Student	Attendance
1	Shorna Akter	Present
2	Ariful Islam	Late

Edit

Print



## ATTENDANCE STATUS FORM:

Student Attendance Management System(IIBS) Salim Reja

**Attendance Report**

Class per Subjects: BBA 1st year-1st semester BBA-1 [ Salim Reja ] Month of: August 2023 Filter

Course: CSE Class: 1st year-1st semester  
Subject: BBA-1 Month of: August ,2023  
Total Days of Classes: 5

#	Student	Present	Late	Absent
1	Shorna Akter	4	0	1
2	Ariful Islam	3	1	1

Print

## SUBJECTS:

Student Attendance Management System(IIBS) Administrator

**Subject Form**

Subject:

Description:

Save Cancel

**Subject List**

Show 10 entries Search:

#	Subject	Action
1	<b>SAD</b> System Analysis & Design	<span>Edit</span> <span>Delete</span>
2	<b>OOP</b> Object Oriented Programming	<span>Edit</span> <span>Delete</span>
3	<b>Cryptography</b> CSE 4th year 8th semester course	<span>Edit</span> <span>Delete</span>
4	<b>BBA-1</b> BBA 1st year 1st semester course	<span>Edit</span> <span>Delete</span>
5	<b>Structured Programming Language</b> This subject(SPL) will be taken by the faculty member Mahmudul Hasan	<span>Edit</span> <span>Delete</span>
6	<b>Theory Of Computation</b> This subject(TOC) will be taken by the faculty member Samiul Haque	<span>Edit</span> <span>Delete</span>

Showing 1 to 6 of 6 entries Previous 1 Next

## ALL AVAILABLE COURSES:

Student Attendance Management System(IIBS)

Administrator

Dashboard

Course

Subject

Class

Faculty

Student

Class per Subject

Check Attendance

Attendance Record

Attendance Report

Users

Course Form

Course

Description

Save

Cancel

Course List

Show 10 entries

Search:

#	Course	Action
1	CSE Computer Science & Engineering	<div>EditDelete</div>
2	BBA Bachelor of Business Administration(BBA) is a four-year degree course providing practical and theoretical experience in management, business and administration.	<div>EditDelete</div>

Showing 1 to 2 of 2 entries

Previous

1

Next

## ADMIN DASHBOARD:

Student Attendance Management System(IIBS)

Administrator

Dashboard

Course

Subject

Class

Faculty

Student

Class per Subject

Check Attendance

Attendance Record

Attendance Report

Users

Welcome back Administrator!

# **CONCLUSION**

The Attendance Management System is developed using PHP fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification.

# **BIBLIOGRAPHY**

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2. System Analysis and Design - Alias M. Awad
3. Software Engineering - Roger Pressman

## **Websites**

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2. [www.w3schools.com](http://www.w3schools.com)
3. [www.stackoverflow.com](http://www.stackoverflow.com)