



American International University- Bangladesh

CSC 2209: Object Oriented Programming 1 (JAVA)

CO1 Evaluation Project Summary Report Fall 19-20

Group ID: C06

Project Title: Student Attendance Management System

Student Name	Student Id
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Student Attendance Management System

Introduction:

I want to make simple desktop application for the faculties so that they can take the attendance of students in every class easily. By this an admin also can manage faculties.

User Category:

There are two types of Users here. They are:

- Admin
- Faculty

Feature List:

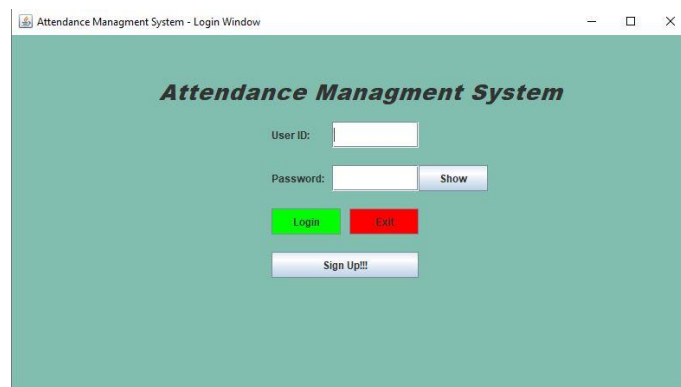
In this project the Admin has the following features:

- Manage the faculty list
- Add Faculty
- Add Admin
- Update faculty and admin information
- Change own password

In this project the Faculty has the following features:

- Manage the student list
- Take attendance
- Add student
- Update student information
- Change own password

Frame Description:



Frame: Login Frame

Login Frame: Login frame is the first frame of the whole system. Admin and Faculty both login from here.



Student Attendance Management System

Welcome To Admin Wizard

Log Out

Change Password

ID:

Name:

Designation:

Search

Insert Update Delete Refresh Show All

Id	Name	Designation
A	MRS A	Admin
A3	Tom	Faculty
B	Jerry	Faculty

Frame: Admin Frame

Admin Frame: After Login admin can add, update, and delete any employee's information from this frame.

Change Password!!!

Changing Password

ID:

Password:

Change

Cancel

Login

Frame: Password changing Frame

Password Changing Frame: This frame is for changing password for both faculty and admin.

Attendance sheet

Student ID: Name: GET

ADD Remove Update Refresh Show All Log Out Change Password

Id	Name	class1	class2	class3	class4	class5	class6	class7	class8	class9	class10	class11	class12
17-xxxx-2	Alice	0	0	0	0	0	0	0	0	0	0	0	0
id1	Steve	0	0	0	0	0	0	0	0	0	0	0	0
id2	Lesley	0	0	0	0	0	0	0	0	0	0	0	0
id3	Jeff	0	0	0	0	0	0	0	0	0	0	0	0
id5	Baris	0	0	0	0	0	0	0	0	0	0	0	0
id6	Bill	0	0	0	0	0	0	0	0	0	0	0	0
id7	Giles	0	0	0	0	0	0	0	0	0	0	0	0

Frame: Attendance sheet

Attendance Sheet: Attendance sheet is for Faculties, who can add, update, and delete any student's information from here.



Student Attendance Management System

Database Table Description:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	studentId	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	name	varchar(30)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
3	class1	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
4	class2	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
5	class3	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
6	class4	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
7	class5	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
8	class6	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
9	class7	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
10	class8	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
11	class9	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
12	class10	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
13	class11	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
14	class12	varchar(1)	latin1_swedish_ci		No	0			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Table: AttendanceSheet

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	empld	varchar(10)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
2	employeeName	varchar(30)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns
3	designation	varchar(15)	latin1_swedish_ci		No	None			Change Drop Primary Unique Index Spatial Fulltext Distinct values Add to central columns

Table: Employees

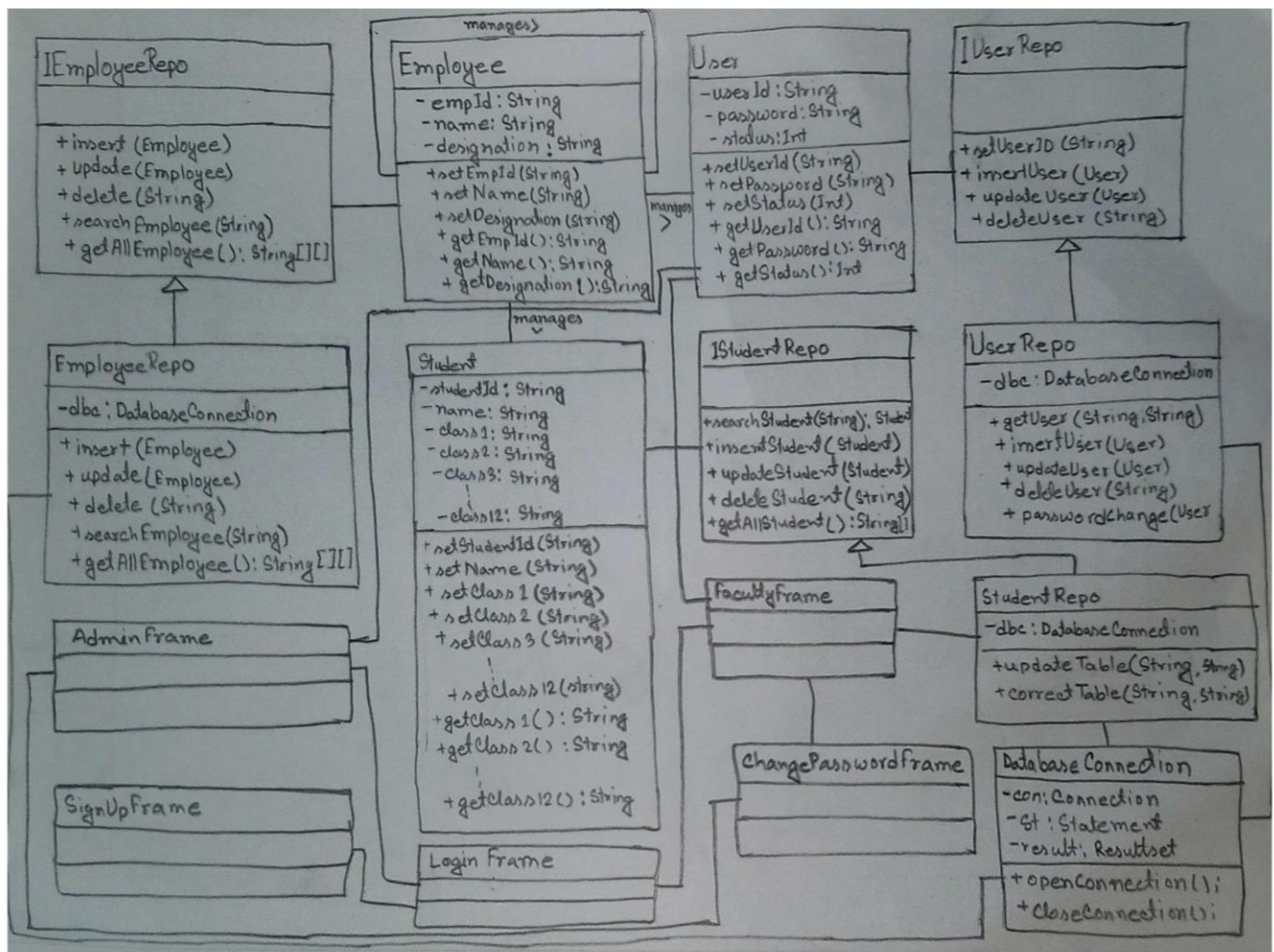
+ Options			
	empld	password	status
<input type="checkbox"/> Edit Copy Delete A	2		0
<input type="checkbox"/> Edit Copy Delete A3	4		1
<input type="checkbox"/> Edit Copy Delete B	1		1

Table: Login



Student Attendance Management System

Class Diagram:



Tools Used:

To develop this project we have used the following:

- Notepad++ (v7.8.2)
- Xampp (v3.2.2)
- JDK 8
- SQL



Student Attendance Management System

OOP and Java Concepts Used:

- Abstraction :
- Encapsulation: It's the protection barrier that keeps the data safe.
- Inheritance: It lets programmer to share data and methods in other classes.
- Polymorphism: It lets objects to act different in different situations.
- Association: This defines the relationship between objects

Impact of this Project:

As this a simple project for taking attendances, it can reduce the uses of papers in some situations. By which any personnel can be beneficial partially.

People will be beneficial by saving their time and having the attendance system more easier. Also institutions will be beneficial if they use this system for managing their employees.

Limitations and Possible Future Improvements:

This system cannot calculate the marks of students. Also this system only can record attendance of 12 classes.

In future there could be a feature for calculating individual marks by after taking the attendance. Also this system can be updated as this can add classes as faculty wants. Semester also not differentiated, this can be added.

