



Green University of Bangladesh

*Department of Computer Science and Engineering (CSE)
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GUB Attendance management System

*Course Title: Object Oriented Programming Lab
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Students Details

Name	ID
Md Ohidur Rahman	221002406

*Submission Date: 22 / 6 / 2023
Course Teacher's Name: Mehrab Zaman Chowdhury*

[For teachers use only: **Don't write anything inside this box**]

<u>Lab Project Status</u>	
Marks:	Signature:
Comments:	Date:

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Chapter 1

Introduction And Overview

GUB Attendance System is a Light Weight, Multi-Role Management System Which is Developed by Java Swing. It can be run like Desktop Application. Teachers can perform their Daily Attendance task using this management system under the Course Admin observation. The Admin can insert, view, edit and delete information from File handling.

1.1 Motivation

As a student I saw our teachers take attendance manually on a register book. This is very complicated For teachers and it has a bad impact on our class time. Admin can't observe it in the manual system. For that i thought to develop an Attendance Management System. For our honorable Teachers and Admin Panel Members. This system will be managed by a proper Student information Database and its manipulation. Panel members can easily access the database for regular progress. Actually I got this idea from our New Online Attendance Management System on GUB Portal. [?].

1.2 Problem Definition

I faced huge problem in this project. Its facilitates to access the attendance information of a particular student in a particular class. This system will also help in evaluating attendance eligibility criteria of a student. By just a click on the mouse,

1.2.1 Problem Statement

This application is built for automating the processing of attendance. It also enhances the speed of performing attendance task easily. The Student Attendance will be based on the department and section. According to the department wise and section wise the attendance will be marked for the students. It includes present, absent and leave column for each student.

1.2.2 Complex Engineering Problem

Table 1.1: Summary of the attributes touched by the mentioned projects

Name of the P Attributes	Explain how to address
P1: Depth of knowledge required	Logic Building Algorithm
P2: Range of conflicting requirements	Being Quick learner
P3: Depth of analysis required	File Operations
P4: Familiarity of issues	File IO-Exception
P5: Extent of applicable codes	Java Class and User Interface
P6: Extent of stakeholder involvement and conflicting requirements	Errors and Exception Handling
P7: Interdependence	Java Library Classes And Methods

1.3 Design Goals/Objectives

Its a simple design with java swing. This project is helping me to deeply learn java Object Oriented Method and logic building.

1.4 Application

This Project is available in our real world. Like Employee Attendance in a office. Specially i got this idea form our Gub Attendance management System. It also a real life example.

Chapter 2

Design/Development/Implementation of the Project

2.1 Simulation Procedure

At first start the project the main function call Login Object form login class. after login it switch to his own portal like Admin or Teacher.

2.2 Teacher Portal

If the teacher successfully logged in then they directly moved to their panel portal. Then they can manually perform their daily task by subjects record which is permanently stored in the database for future use. After their task they can exit from the program easily with the exit function.

2.3 Admin Portal

If the Admin successfully logged in then they directly moved to their access panel portal. Then they can manually manipulate student database information. After their task they can exit from the program easily with the exit function.

You can fix the height, width, position, etc., of the figure accordingly.

2.4 Algorithms

Its a simple Algorithm.

- Bullet points can also be included anywhere in this project report.

GUB Attendance Management System

Username

Password

User Type

Administrator ▼

Login

Cancel




Figure 2.1: Fig: Login Page

Algorithm 1: Sample Algorithm

Input: Username And Password

Output: Welcome To Portal

```

1  $\sum_{i=1}^{\infty} := 0$  // this is a comment
  /* Now this is an if...else conditional loop */
2 if If Log in then
3   | Go to Portal
4 else
5   | Do the rest
  /* Now this is a While loop */
6 while Condition do
7   | Daily Task

```

Chapter 3

Performance Evaluation

3.1 Simulation Environment

I Did this project on Net-beans IDE. Its a developer friendly IDE. all tools and Functionality is easy to use.

3.2 Results Overall Discussion

Every function is properly working on its given tasks. So it's a successful project. Now It needs to be a Proper Logical Database with Operations.

Chapter 4

Conclusion

4.1 Discussion

This is just a simple project.I can't finish it with proper idea. It will be a great project with proper data manipulation.

4.2 Limitations

This is just a simple project.I can't finish it with proper conclusion. I implements the functionality to data read and right into file. Edit and Delete System is not available. For Short timing i can not finish it properly. I think its main Limitation.

4.3 Scope of Future Work

It can be design with more functionality and huge database. Then it will be able to use any official work.