SHAHEED ZULFIKAR ALI BHUTTO
INSTITUTE OF SCIENCE & TECHNOLOGY

ATTENDANCE MANAGEMENT SYSTEM

Submitted to:

Muhammad Faizan Tahir

Syed Muhammad Hassan

NAME:

Ali Zafar Qureshi - 2012374

Atta Ur Rehman - 2012376

Muhammad Faseeh Shahid - 2012390

Shayan Hussain - 2012407

SECTION:

BSCS 4G

ACKNOWLEDGEMENT

I would like to thank both the teachers who taught us **Data Base Management System (LAB and THEORY)** in our fourth semester at **SZABIST** which helped us in Compiling our concepts taught in this course and applying in our project **'Attendance Management System'**.

From coding to Database designing and implementation on this project were completely done by the group members and help from our Teachers, YouTube and other online resources was also taken.

TRACK IT

TABLE OF CONTENT

INTRODUCTION

Attendance Management System is a software that is created for daily employees in an office. It is a GUI based project, written in **Java** and **MySQL**. Purpose of making this project is to computerize the tradition way of taking attendance into new way.

FEATURES

- User can add their attendance.

- Multiple attendances in a single day are not allowed.

- Admin can add, delete, update and view employees.

- It is created using RDBMS in order to reduce data redundancy, increase data protection & data integrity and also the data is organized in table format.
- Regular expressions are also implemented in order to make the user to input the data in the correct Format
- We have also used Doubly-LinkedList as suitable data structure.
- It is GUI based user-friendly application.

ALGORITHM:

- Start
- Click Select Staff or Admin Login
- User will go on login page If clicks on admin login, and then enter admin credentials. Else it will return to user page.
  1. If credential is correct then it will go into Admin control page else it will show incorrect password.
  2. Admin can add, delete, update, view staff & view attendance by clicking desirable option.
- User will go on select staff, if clicks on select staff and can add their attendance for the day.

FLOWCHART

Select Staff ← Users → Admin Login

Admin Login ← Admin Login → Admin Login

Admin Login ← Admin Login → Admin Login

Admin Login ← → Admin Login
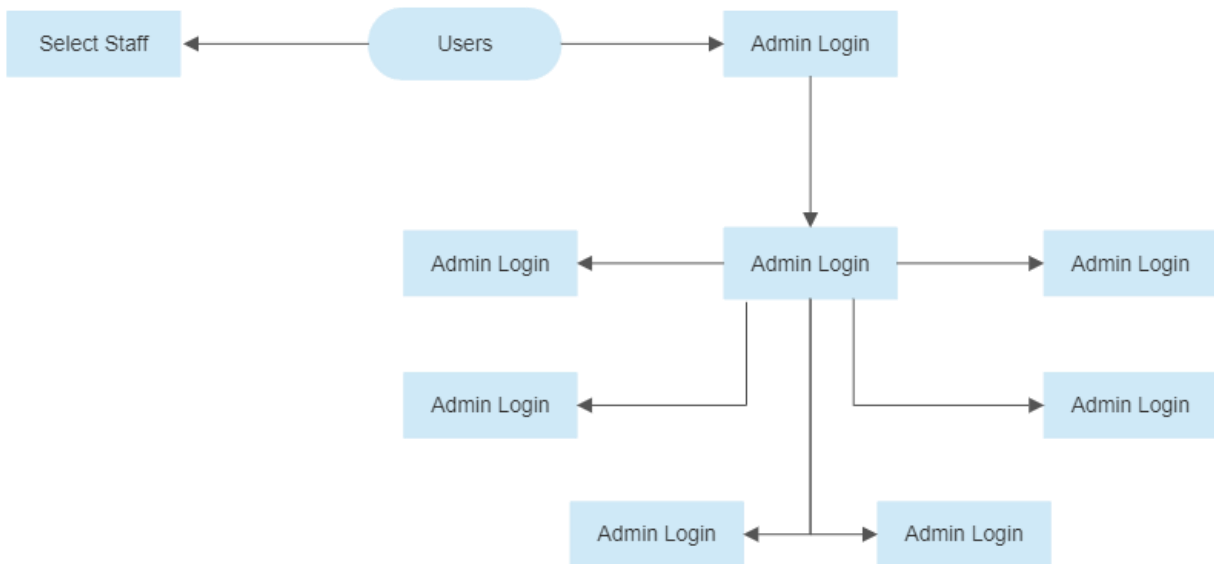
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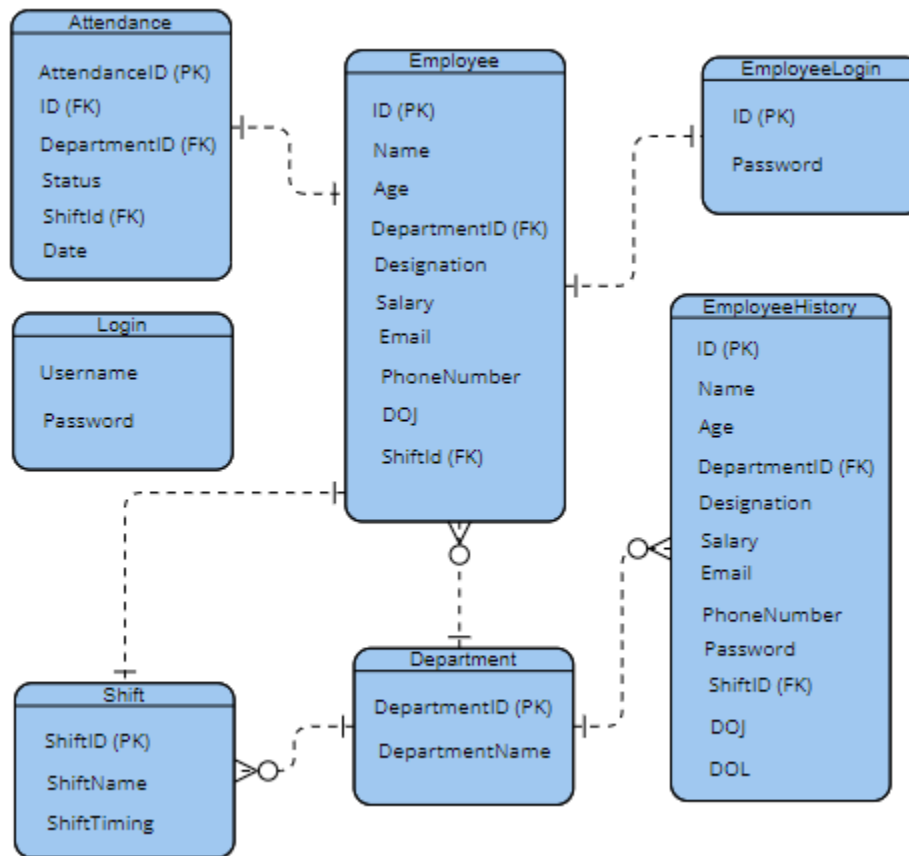
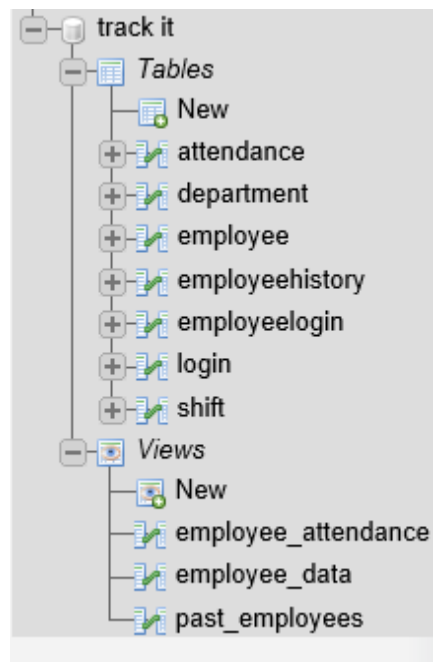

WORK FLOW

In this project there are two panels first is the employee and the second one is the admin. In the admin panel the admin has to login into his account by providing the correct username and password and then after a successful login he/she can register new employee data, delete and update the existing employee data and can also view the data of employee altogether in the form of table, there is also a feature of record maintaining of the employees who have left the company to which the admin has access to. In the Employee panel an employee can login into his account if his data exists in the data and mark his daily attendance by selecting his attendance status for the shift he was hired for and can easily log himself out after marking is attendance for the day, we had also made sure that no employee can mark his attendance multiple times for a single day.
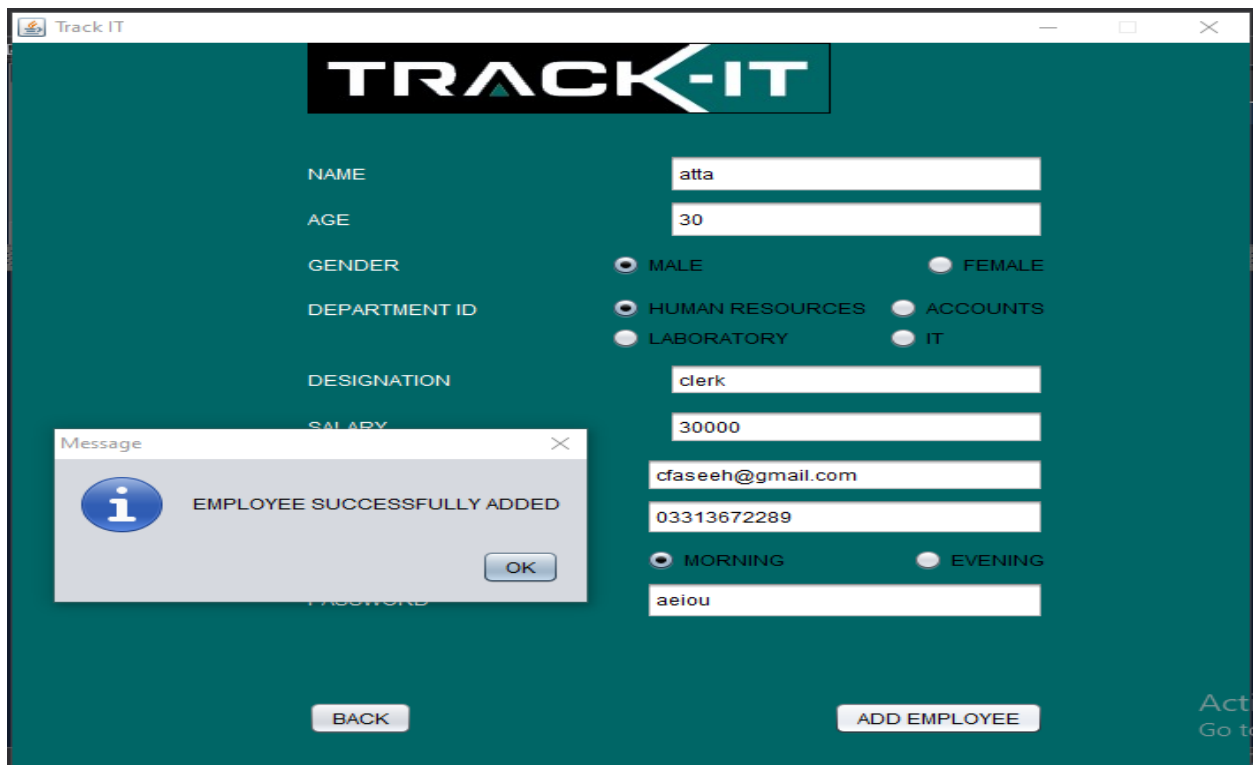
DATABASE

The database is named as 'track it' and it contains a total of seven tables and three user views. Each table will be consisting of its own Primary keys, Foreign Keys and Unique Constraints (if required). Views are made by the help of Inner Joining two or more tables according to the requirements.

PROJECT PICTURES

- **ADD STAFF**

- **EMPLOYEE UPDATED:**

- **EMPLOYEE DELETED:**

- **EMPLOYEE ATTENDANCE:**

ID	NAME	DEPARMENT ID	DEPARTMENT NAME	DESIGNATION	SHIFT ID	SHIIFT NAME	SHIFT TIMING	STATUS	DATE
1	Faseeh	4	IT	Manager	1	Morning	9:00 am - 5:00 pm	Present	2022-05-30
2	Amaan	2	Accounts	Accountant	1	Morning	9:00 am - 5:00 pm	Leave	2022-05-29
1	Faseeh	4	IT	Manager	1	Morning	9:00 am - 5:00 pm	Present	2022-05-29

BACK

Note:

SQL file separately given.