



# **ATTENDANCE** **MANAGEMENT SYSTEM**

*Submitted to:*

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**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**

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## **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.

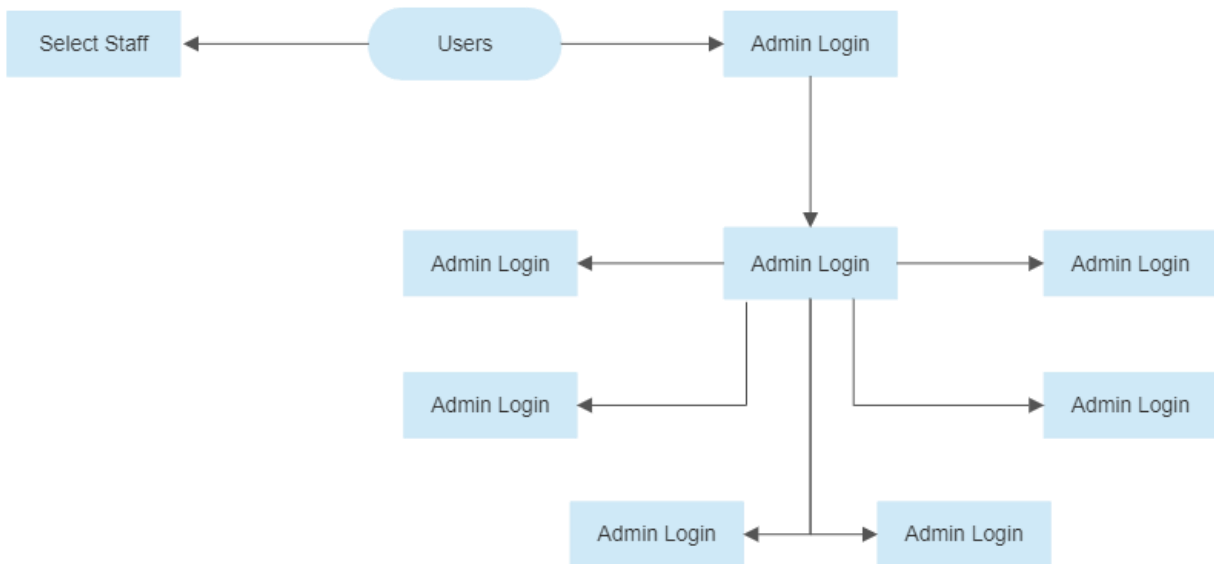
## **FEATURES**

- 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.

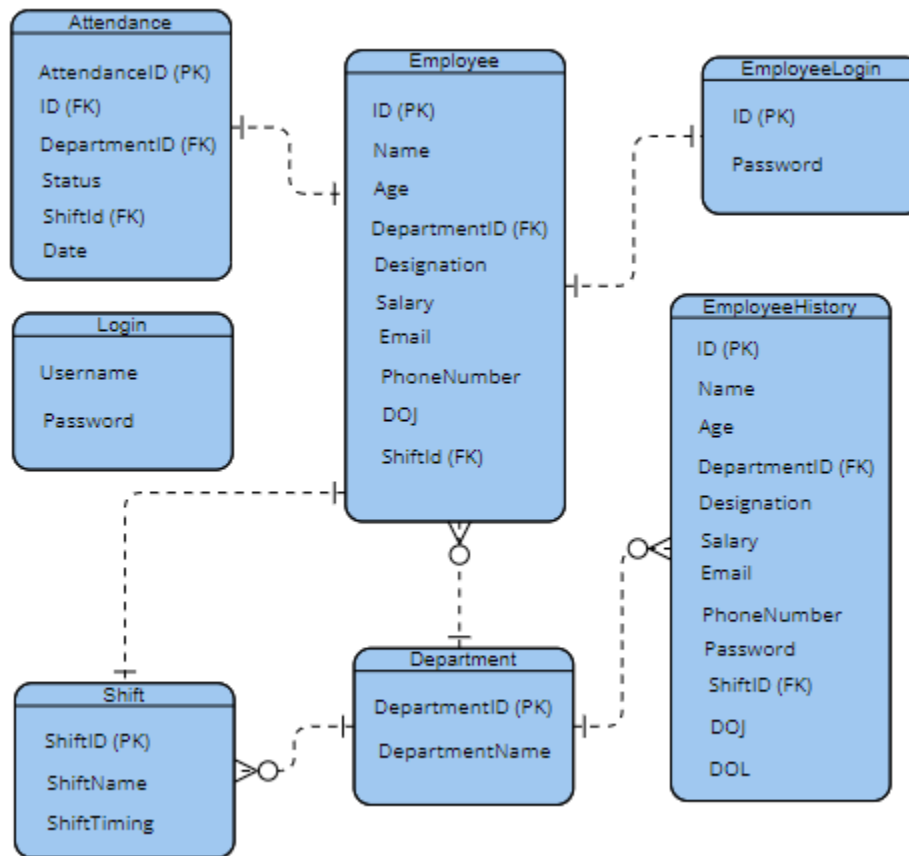
## **ALGORITHM:**

- 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



## ERD

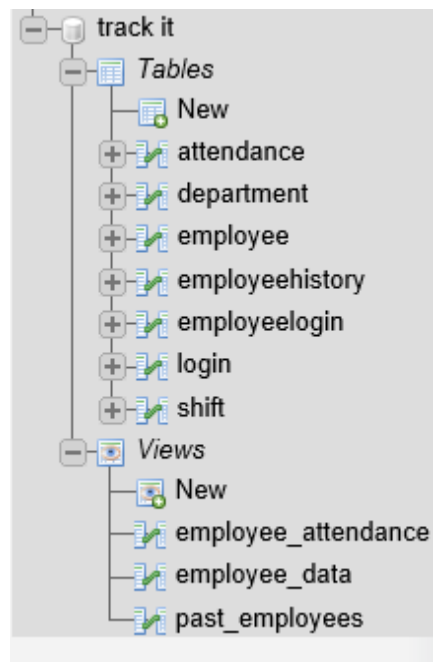


## WORK FLOW

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.

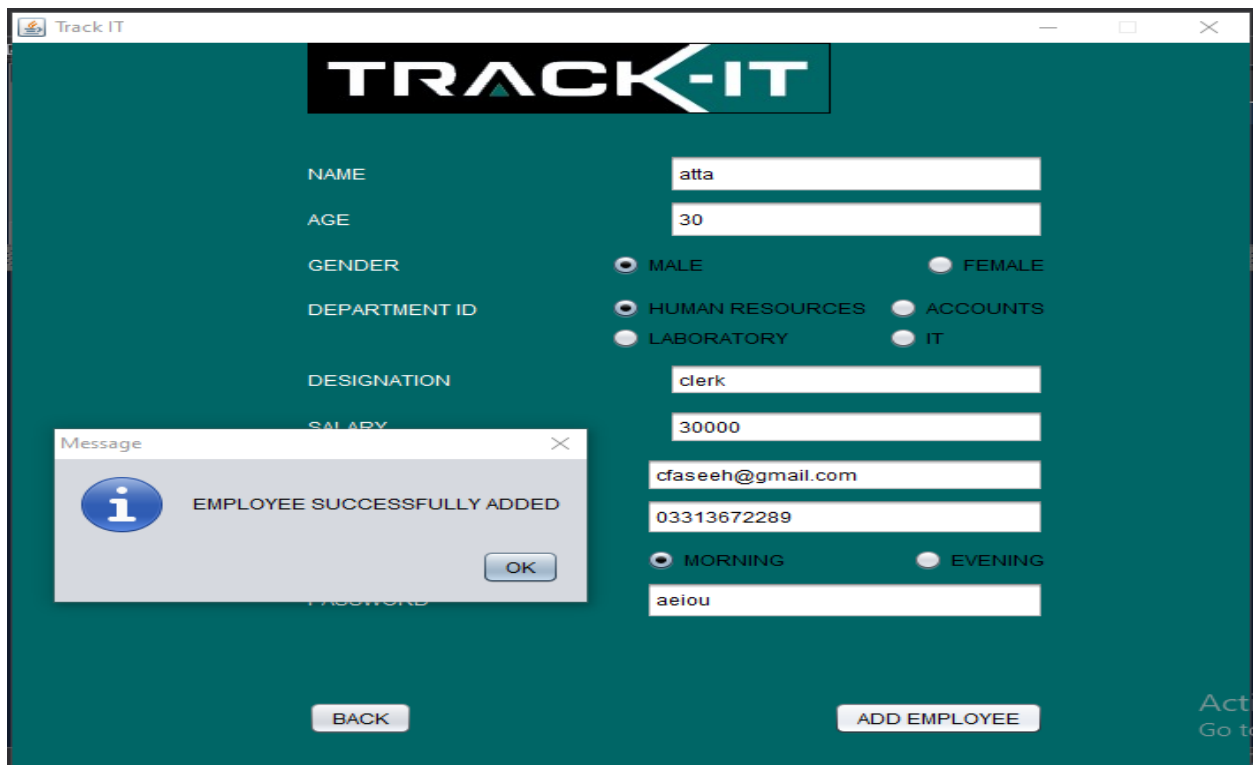
## **DATABASE**

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**



The screenshot displays the 'Track IT' web application interface. At the top, the 'TRACK-IT' logo is visible. The main form is titled 'ADD STAFF' and contains several input fields and radio buttons. A message box is overlaid on the form, indicating that the employee was successfully added. The form fields are as follows:

Field Label	Value
NAME	atta
AGE	30
GENDER	<input checked="" type="radio"/> MALE <input type="radio"/> FEMALE
DEPARTMENT ID	<input checked="" type="radio"/> HUMAN RESOURCES <input type="radio"/> ACCOUNTS <input type="radio"/> LABORATORY <input type="radio"/> IT
DESIGNATION	clerk
SALARY	30000
EMAIL	cfaseeh@gmail.com
PHONE	03313672289
SHIFT	<input checked="" type="radio"/> MORNING <input type="radio"/> EVENING
PASSWORD	aeiou

The message box contains the text: "EMPLOYEE SUCCESSFULLY ADDED".

At the bottom of the form, there are two buttons: "BACK" and "ADD EMPLOYEE".



TRACK-IT											
ID	NAME	AGE	GENDER	DEPARMENT ID	DEPARTMENT N...	DESIGNATION	SALARY	EMAIL	PHONE NUMBER	PASSWORD	DATE OF JOINING
4	atta	30	male	1	Human Resourc...	clerk	30000	cfaseeh@gmail...	03313672289	aeiou	2022-05-30
3	Shayan	40	male	4	IT	Manager	70000	shayan@gmail.c...	03313785589	abc123	2022-05-30
2	Amaan	30	male	2	Accounts	Accountant	30000	amaan@gmail.c...	03313655670	12345	2022-05-29
1	Faseeh	30	male	4	IT	Manager	40000	cfaseeh@gmail...	03313672289	aeiou123	2022-05-29

BACK

Activate Windows  
Go to Settings to activate Windows.

- **EMPLOYEE UPDATED:**

Message

**i** RECORD UPDATED SUCCESSFULLY

OK

TRACK-IT

4

atta

31

PHONE NUMBER 03313672289

DESIGNATION clerk

SALARY 30000

EMAIL cfaseeh@gmail.com

PASSWORD aeiou

DOJ 2022-05-30

BACK UPDATE SEARCH

Activate Windows  
Go to Settings to activate Windows.

TRACK-IT											
ID	NAME	AGE	GENDER	DEPARTMENT ID	DEPARTMENT N...	DESIGNATION	SALARY	EMAIL	PHONE NUMBER	PASSWORD	DATE OF JOINING
4	atta	31	male	1	Human Resourc...	clerk	30000	cfaseeh@gmail...	03313672289	aeiou	2022-05-30
3	Shayan	40	male	4	IT	Manager	70000	shayan@gmail.c...	03313785589	abc123	2022-05-30
2	Amaan	30	male	2	Accounts	Accountant	30000	amaan@gmail.c...	03313655670	12345	2022-05-29
1	Faseeh	30	male	4	IT	Manager	40000	cfaseeh@gmail...	03313672289	aeiou123	2022-05-29

BACK

Activate Windows  
Go to Settings to activate Windows.

- **EMPLOYEE DELETED:**

TRACK-IT

ID

NAME

AGE

SALARY

EMAIL

PASSWORD

DOJ

SHIFT ID

4

atta

31

30000

cfaseeh@gmail.com

aeiou

2022-05-30

1

03313672289

1

Human Resources

clerk

DELETE

SEARCH

Message

i

RECORD SUCCESSFULLY DELETED

OK

TRACK-IT											
ID	NAME	AGE	DEPARTMENT ID	DEPARTMENT N...	DESIGNATION	SALARY	EMAIL	PHONE NUMBER	PASSWORD	DATE OF JOINING	DATE OF LEAVING
4	atta	31	1	Human Resourc...	clerk	30000	cfaseeh@gmail....	03313672289	aeiou	2022-05-30	2022-05-30

TRACK-IT											
ID	NAME	AGE	GENDER	DEPARTMENT ID	DEPARTMENT N...	DESIGNATION	SALARY	EMAIL	PHONE NUMBER	PASSWORD	DATE OF JOINING
3	Shayan	40	male	4	IT	Manager	70000	shayan@gmail.c...	03313785589	abc123	2022-05-30
2	Amaan	30	male	2	Accounts	Accountant	30000	amaan@gmail.c...	03313655670	12345	2022-05-29
1	Faseeh	30	male	4	IT	Manager	40000	cfaseeh@gmail....	03313672289	aeiou123	2022-05-29

## • EMPLOYEE ATTENDANCE:

TRACK-IT

ID

1

Password

\*\*\*\*\*

LOGIN

NAME

Faseeh

DEPARTMENT ID

4

DEPARTMENT NAME

IT

DESIGNATION

Manager

EMAIL

cfaseeh@gmail.com

SHIFT

1

PRES

ABSENT

LEAVE

SUBMIT

BACK

Message

ATTENDANCE SUCCESSFULLY ADDED

OK

Track IT

TRACK-IT

ID	NAME	DEPARMENT ID	DEPARTMENT NAME	DESIGNATION	SHIFT ID	SHIFT 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.