

SILICON INSTITUTE OF TECHNOLOGY

SUMMER INTERNSHIP PROGRAM



Course Name : PYTHON Programming

Conducting Institute: LIT BBSR

Trainer : Mr. Sritam Das

Course Duration: 30 days

Presented by:

Uttam Sundar Ray

SIC: 180310060

Branch : CSE

Section:A

TOPICS COVERED DURING TRAINING

1. Introduction to Python
2. Operators, Datatypes
3. Control Structures, Control Statements
4. Functions
5. Class and Objects
6. Data members, Methods
7. Constructor and Destructor
8. Garbage Collector
9. Operator Overloading
10. Type Conversion
11. Relations(is-a & has-a)
12. File handling
13. Exception Handling
14. Multi-Processing
15. SQL Database
16. GUI Programmimg

PROJECT USING GUI AND MySQL DATABASE

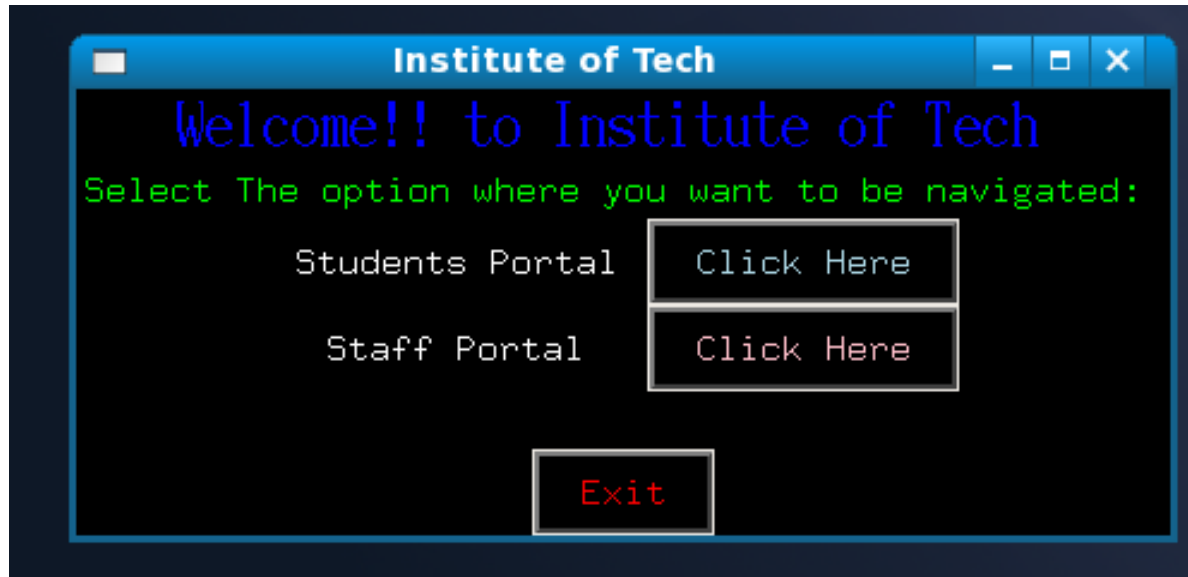
Name of Project: Student & Staff Database Management System

Users & Their Powers :

- **Admin:**
 - Can Delete and Add Staff from the Database
 - Can Delete/Add Student Entry(s) if Staff is Absent
- **Staff/Faculty :**
 - Can Display the Staff and Student Entries
 - Can Delete or Add Student entry(s) from Database
- **Anyone :**
 - Can Add Students
 - Can Display Student and Staff Entries

WELCOME PAGE

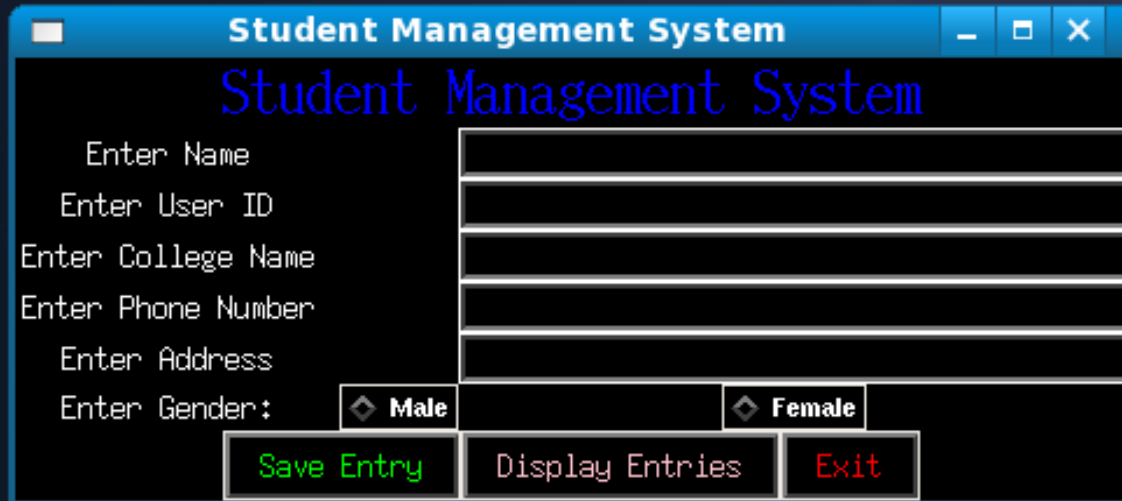
Allows to Access Student and Employee Portal



Student Database Management Portal

Accessibility:

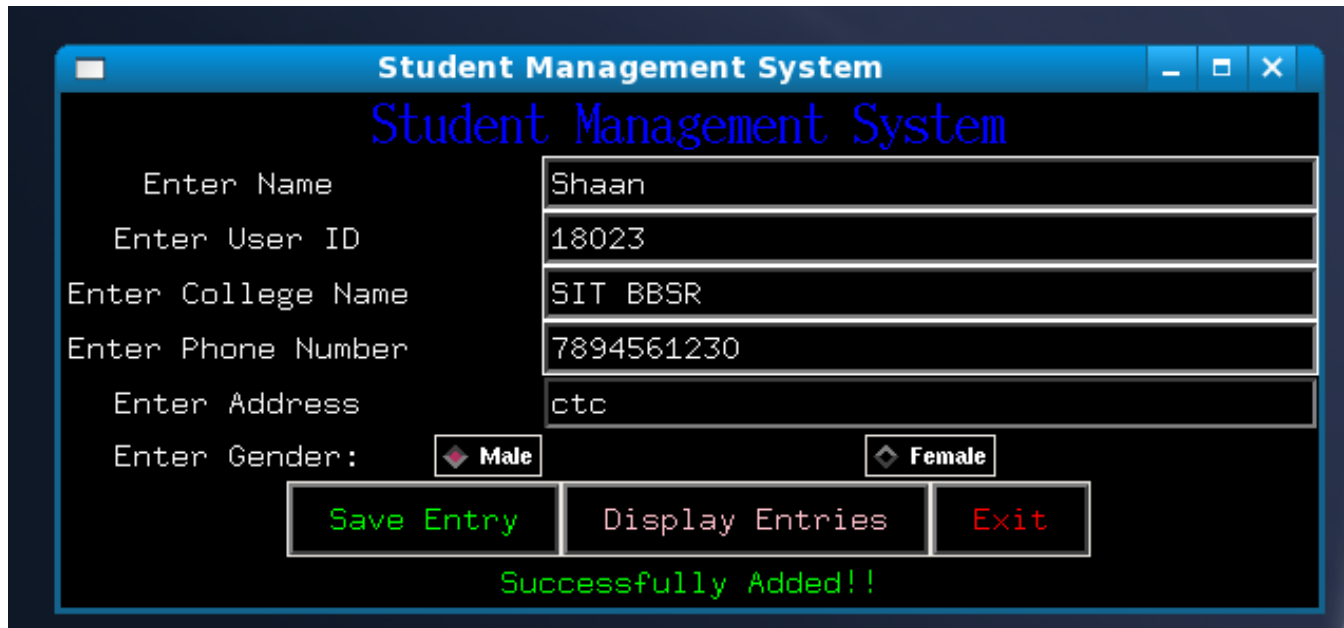
- Database Entries Displayable to All
- New Entry Addition can be done by everyone
- Deletion of Entries only by Admin/Staff



The screenshot shows a window titled "Student Management System" with a blue header bar. Below the header, the title "Student Management System" is displayed in a large, blue, serif font. The interface contains several input fields and buttons. On the left, there are labels for "Enter Name", "Enter User ID", "Enter College Name", "Enter Phone Number", "Enter Address", and "Enter Gender:". To the right of these labels are five text input fields. Below the "Enter Gender:" label, there are two radio button options: "Male" and "Female". At the bottom of the window, there are three buttons: "Save Entry" (with green text), "Display Entries", and "Exit" (with red text).

Student Database Management Portal

Shows a Message when successfully added one Entry to the Database



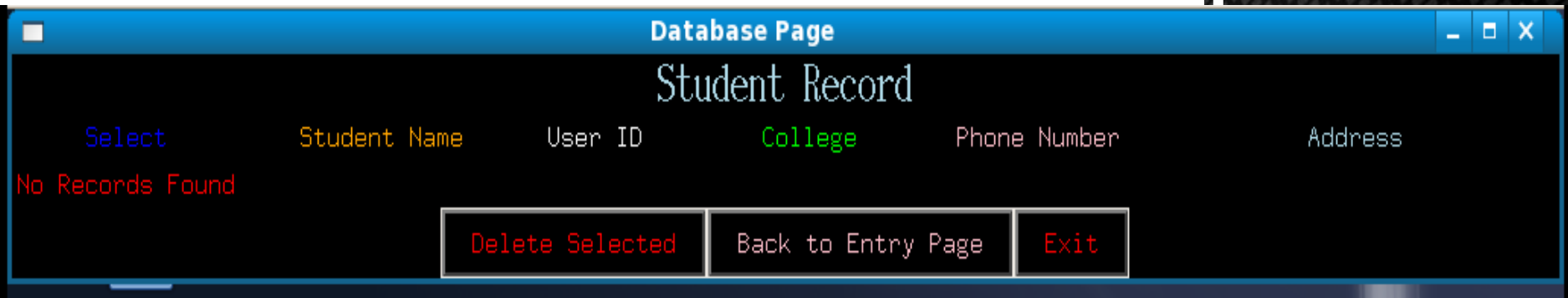
The screenshot shows a window titled "Student Management System" with a blue header bar. The window contains a form for adding a new student entry. The form fields are as follows:

Field Label	Value
Enter Name	Shaan
Enter User ID	18023
Enter College Name	SIT BBSR
Enter Phone Number	7894561230
Enter Address	ctc
Enter Gender:	<input checked="" type="radio"/> Male <input type="radio"/> Female

Below the form fields are three buttons: "Save Entry" (green text), "Display Entries" (black text), and "Exit" (red text). At the bottom of the window, a green message "Successfully Added!!" is displayed.

Student Database Management Portal

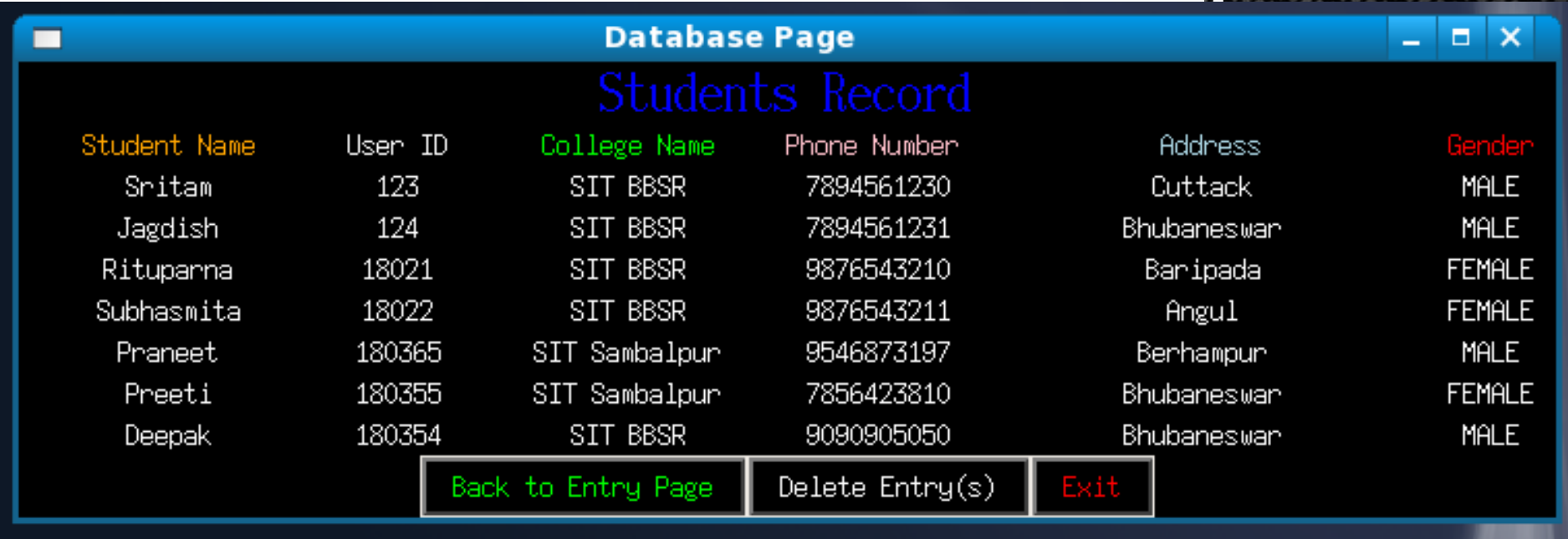
Shows a Message when no Entry is present



The screenshot shows a window titled 'Database Page' with a subtitle 'Student Record'. The window has a blue header bar with standard window controls. The main area is black with white text. It displays a message 'No Records Found' in red. Below the message are three buttons: 'Delete Selected', 'Back to Entry Page', and 'Exit'.

Select	Student Name	User ID	College	Phone Number	Address
No Records Found					

[Delete Selected](#) [Back to Entry Page](#) [Exit](#)



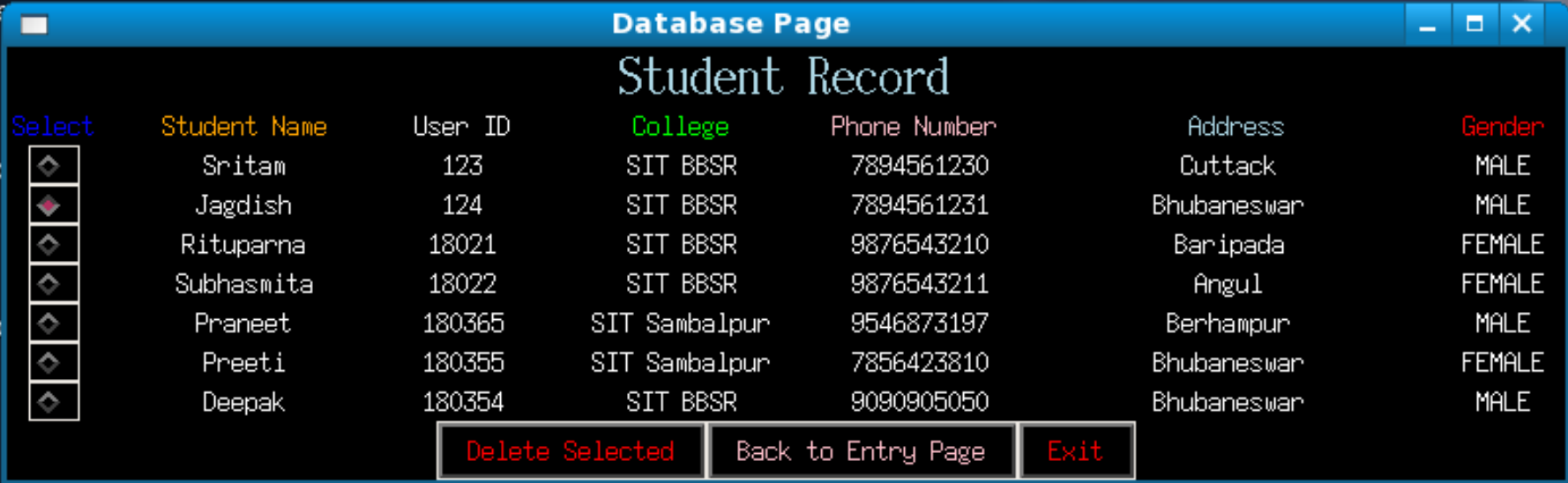
The screenshot shows a window titled 'Database Page' with a subtitle 'Students Record'. The window has a blue header bar with standard window controls. The main area is black with white text. It displays a table of student records with columns: Student Name, User ID, College Name, Phone Number, Address, and Gender. Below the table are three buttons: 'Back to Entry Page', 'Delete Entry(s)', and 'Exit'.

Student Name	User ID	College Name	Phone Number	Address	Gender
Sritam	123	SIT BBSR	7894561230	Cuttack	MALE
Jagdish	124	SIT BBSR	7894561231	Bhubaneswar	MALE
Rituparna	18021	SIT BBSR	9876543210	Baripada	FEMALE
Subhasmita	18022	SIT BBSR	9876543211	Angul	FEMALE
Praneet	180365	SIT Sambalpur	9546873197	Berhampur	MALE
Preeti	180355	SIT Sambalpur	7856423810	Bhubaneswar	FEMALE
Deepak	180354	SIT BBSR	9090905050	Bhubaneswar	MALE

[Back to Entry Page](#) [Delete Entry\(s\)](#) [Exit](#)

Student Database Management Portal

- Shows check boxes(radiobuttons) to select entries to be deleted



The screenshot shows a Java Swing window titled "Database Page" with a standard title bar (minimize, maximize, close buttons). The window content is titled "Student Record" and displays a table with the following data:

Select	Student Name	User ID	College	Phone Number	Address	Gender
<input type="checkbox"/>	Snitam	123	SIT BBSR	7894561230	Cuttack	MALE
<input type="checkbox"/>	Jagdish	124	SIT BBSR	7894561231	Bhubaneswar	MALE
<input type="checkbox"/>	Rituparna	18021	SIT BBSR	9876543210	Baripada	FEMALE
<input type="checkbox"/>	Subhasmita	18022	SIT BBSR	9876543211	Angul	FEMALE
<input type="checkbox"/>	Praneet	180365	SIT Sambalpur	9546873197	Berhampur	MALE
<input type="checkbox"/>	Preeti	180355	SIT Sambalpur	7856423810	Bhubaneswar	FEMALE
<input type="checkbox"/>	Deepak	180354	SIT BBSR	9090905050	Bhubaneswar	MALE

At the bottom of the window, there are three buttons: "Delete Selected", "Back to Entry Page", and "Exit".

Student Database Management Portal

- Shows a message if no staff is present
- Shows message if Incorrect password is entered



The screenshot shows a window titled "Login Page" with a black background and white text. The window contains the following elements:

- A title bar with a blue gradient and standard window controls (minimize, maximize, close).
- The text "Enter Login Details" centered at the top.
- A label "Enter User ID" followed by a text input field containing the text "Admin".
- A label "Enter Password" followed by a text input field containing the text "c".
- Two buttons: "Submit" (with green text) and "Close" (with red text).
- Two lines of red text at the bottom: "No Staff!! Admin Login Required!!" and "Incorrect Password!!".

Employee Database Management Portal

- Shows a message if while creation of the Employee's password, password & confirm password do not match

The screenshot shows a window titled "Faculty Management System" with a subtitle "Employee Management System". The window contains a form for entering employee details. The fields are as follows:

Field	Value
Enter Name	Uttam
Enter User ID	180310060
Enter Department	CSE
Enter Phone Number	7978038331
Enter Address	Bhubaneswar
Enter Gender:	<input checked="" type="radio"/> Male <input type="radio"/> Female
Enter Password	3800
Confirm Password	330

At the bottom of the form, there are three buttons: "Save Entry" (green text), "Display Entries" (black text), and "Exit" (red text). Below the buttons, a red error message is displayed: "Passwords donot match!!".

Employee Database Management Portal

- Creates a field for Admin Login for saving an employee's information
- Shows message if Incorrect password is entered

The screenshot shows a Java Swing window titled "Faculty Management System". Inside, the "Employee Management System" section has several text input fields: "Enter Name" (Uttam), "Enter User ID" (180310060), "Enter Department" (CSE), "Enter Phone Number" (7978038030), "Enter Address" (Bhubaneswar), "Enter Gender:" (with radio buttons for Male and Female, Male is selected), "Enter Password" (900), and "Confirm Password" (900). Below these are three buttons: "Save Entry" (green text), "Display Entries" (pink text), and "Exit" (red text). Below the buttons is the text "Admin Login Required". Underneath that are two more input fields: "Enter User ID" (Admin) and "Enter Password" (uttam). At the bottom are "Submit" (green text) and "Close" (red text) buttons. At the very bottom, the text "Successfully Added!!" is displayed in green.

Field	Value
Enter Name	Uttam
Enter User ID	180310060
Enter Department	CSE
Enter Phone Number	7978038030
Enter Address	Bhubaneswar
Enter Gender:	Male
Enter Password	900
Confirm Password	900

Buttons: Save Entry, Display Entries, Exit

Admin Login Required

Field	Value
Enter User ID	Admin
Enter Password	uttam

Buttons: Submit, Close

Successfully Added!!

Employee Database Management Portal

- Shows a message if no staff is present
- Displays the record of staffs' present without displaying the staff's password

Database Page					
Employee Record					
Employee Name	User ID	Department	Phone Number	Address	Gender
Uttam	180310060	CSE	7978038030	Bhubaneswar	MALE
Dipak Sundar Ray	180120358	Mech	9486255789	BBSR	MALE
Sandhya	180120359	Basic Science	9486255788	BBSR	MALE
Probhati Jena	101212	Humanities	943815568	CTC	FEMALE
PK Subudhiray	125483	Humanities	7894561230	Puri	MALE
Pradeep Pattnaik	125481	Humanities	7894561231	Puri	MALE
Back to Entry Page		Delete Entry(s)		Exit	

Employee Database Management Portal

- Shows a message if no staff is present
- Create checkboxes(radio buttons) to select an entry to be deleted
- Also shows a message if none of them is selected

Database Page

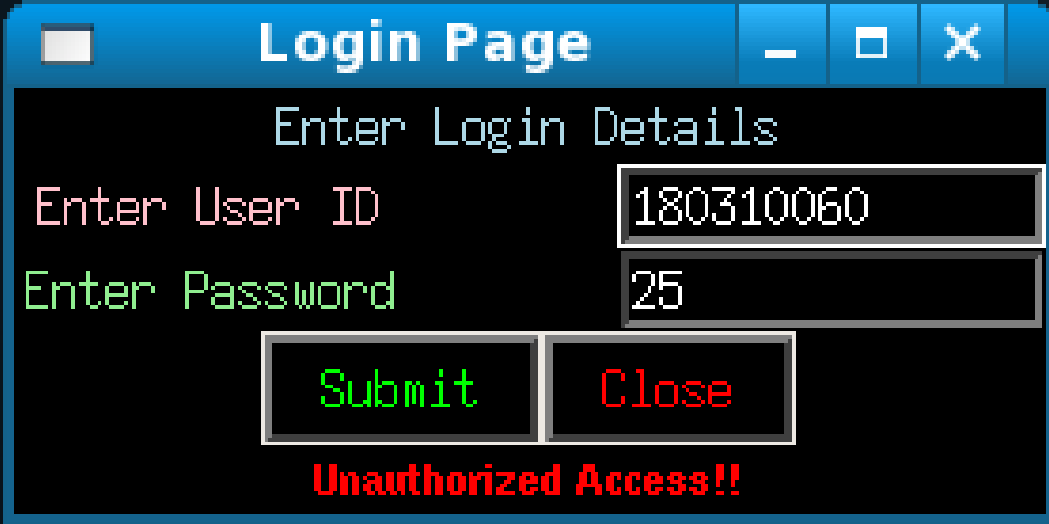
Employee Record

Select	Employee Name	User ID	Department	Phone Number	Address	Gender
<input type="checkbox"/>	Uttam	180310060	CSE	7978038030	Bhubaneswar	MALE
<input type="checkbox"/>	Dipak Sundar Ray	180120358	Mech	9486255789	BBSR	MALE
<input type="checkbox"/>	Sandhya	180120359	Basic Science	9486255788	BBSR	MALE
<input type="checkbox"/>	Probhati Jena	101212	Humanities	943815568	CTC	FEMALE
<input type="checkbox"/>	PK Subudhiray	125483	Humanities	7894561230	Puri	MALE
<input type="checkbox"/>	Pradeep Pattnaik	125481	Humanities	7894561231	Puri	MALE

Please Select One Entry to Delete!!!

Employee Database Management Portal

- Once a staff is selected and the delete button is pressed a login page pops up
- If any staff tries to delete another staff then a message pops
- If the attempt to login fails and close is pressed, the deletion page comes without any changes to the entries



The image shows a screenshot of a 'Login Page' window. The window has a blue title bar with the text 'Login Page' and standard window control buttons (minimize, maximize, close). The main content area is black with white text. It says 'Enter Login Details' at the top. Below that, there are two input fields: 'Enter User ID' with the value '180310060' and 'Enter Password' with the value '25'. At the bottom, there are two buttons: 'Submit' (green text) and 'Close' (red text). Below the buttons, the text 'Unauthorized Access!!' is displayed in red.

THANK YOU FOR YOUR PATIENCE



Presented by:

Uttam Sundar Ray

SIC: 180310060

Branch : CSE

Section:A

Roll No. : 5