

Project Report

BITF20M024

STUDENT INTEREST SYSTEM

The Student Interest System is a web application built using Python Flask, MySQL Workbench. It provides a user-friendly interface for managing student information efficiently in educational institutions.

Key Features:

- 1. User Authentication:** Secure login/signup mechanism for authorized access.
- 2. Dashboard:** Visualizes significant statistics with charts like pie charts, line charts, and tables.
- 3. Student Interest Page:** Allows addition and dynamic selection of student interests.
- 4. Student List View:** Displays paginated tabular data with CRUD operations.
- 5. Data Export:** Enables exporting student data to Excel for analysis.
- 6. Charts and Visualizations:** Provides insights into demographics, interests, and system activity.
- 7. Activity Log:** Displays system activity on the dashboard.

Technology Stack

Backend: Python Flask

Frontend: HTML & CSS

Database :MySQL Workbench

Implementation:-

Login/Signup:Basic login/signup functionality with minimal features.

Dashboard: Charts and tables representing student data.

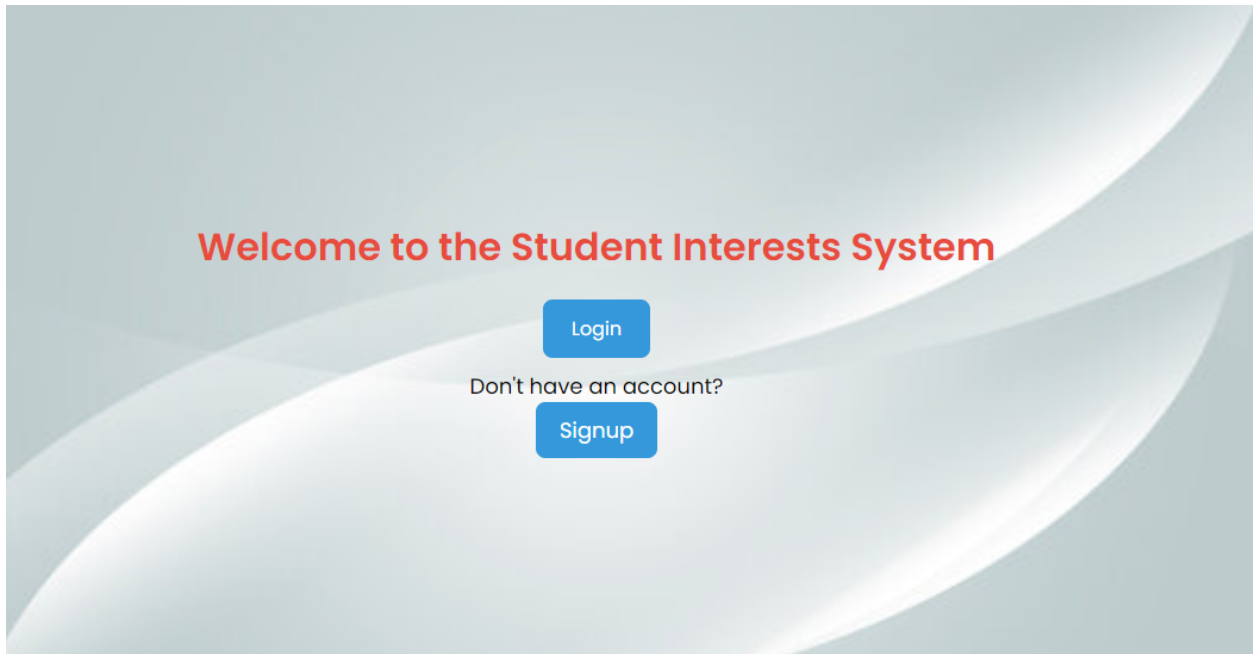
Student List View: Paginated view with CRUD operations.

Add New Student: Form for adding student data with validations.

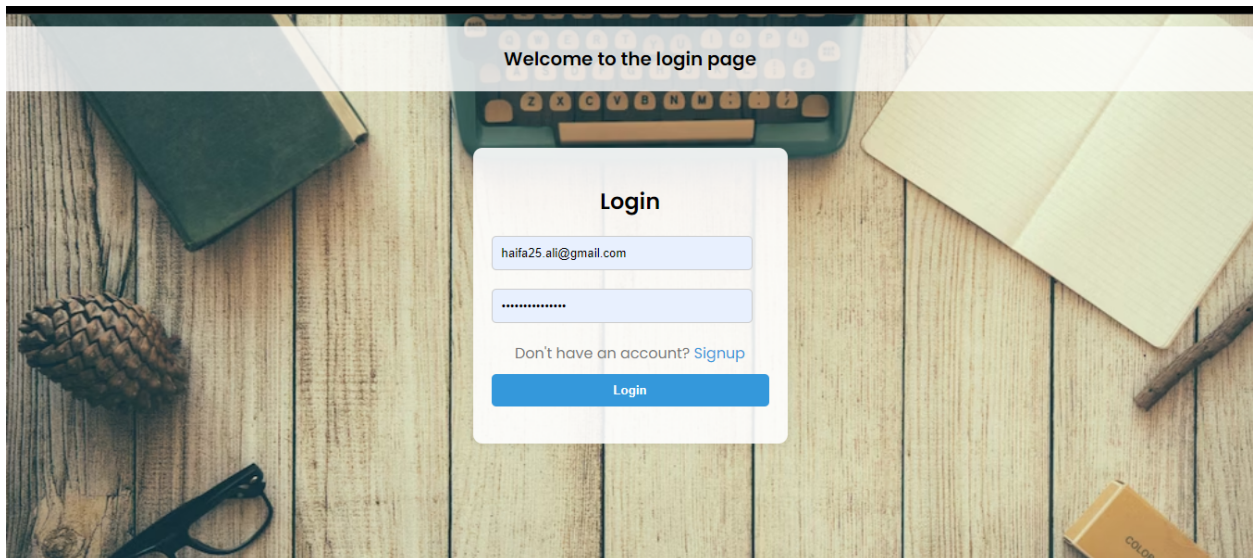
Conclusion:

The Student Interest System efficiently manages student information, emphasizing core features such as data visualization and user-friendly data entry. The technology stack includes **MySQL Workbench** and **Python Flask** for the **backend**, while **HTML & CSS** powers the **frontend**. The system provides a valuable tool for educational institutions to handle student data effectively.

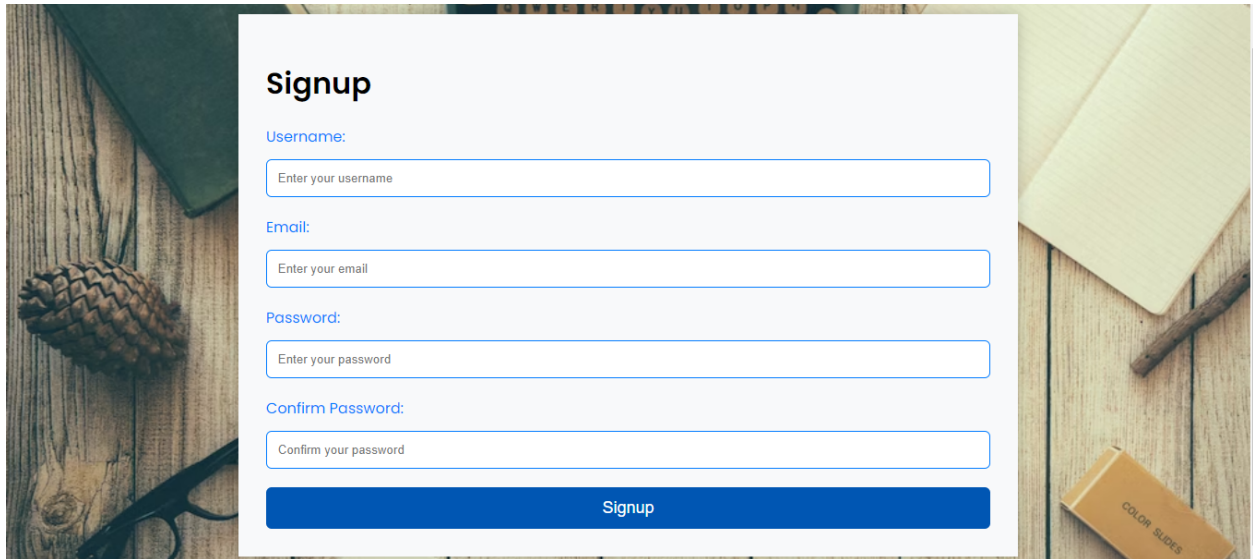
SCREENS INDEX



LOGIN



SIGNUP



Signup

Username:

Email:

Password:

Confirm Password:

Signup

ADD STUDENT

Student Interest System Dashboard Student List

Add Student

Full Name	Roll Number
<input type="text" value="Full Name"/>	<input type="text" value="Roll Number"/>
Email Address	Gender
<input type="text" value="Email Address"/>	<input type="text" value="Select an option"/>
Date of Birth	City
<input type="text" value="Date of Birth"/>	<input type="text" value="Select an option"/>
Interest	Department
<input type="text" value="Select an option"/>	<input type="text" value="Select an option"/>
Degree Title	Subject
<input type="text" value="Select an option"/>	<input type="text" value="Subject"/>
Start Date	End Date
<input type="text" value="Start Date"/>	<input type="text" value="End Date"/>

Create **Cancel**

STUDENT LIST

Student Interest System

Dashboard

Add Student

Student List

Page Size:

10

Page: << < page 1 of 21 > >>

Show 10 entries

Search

Full Name	Roll Number	Email Address	Gender	Date of Birth	City	Interest	Department	Degree Title	Subject	Start Date	End Date	Actions
Alice Johnson	2021004	alice@example.com	Female	1993-12-10	Chicago	Music	Music	Bachelor of Music	Piano	2021-09-01	2024-08-31	<div>View</div> <div>Edit</div> <div>Delete</div>
Ariana Grande	2021010	ariana@example.com	Female	1993-06-26	New York	Music	Music	Bachelor of Music	Pop Singing	2021-09-01	2024-08-31	<div>View</div> <div>Edit</div> <div>Delete</div>
Bob Smith	2021003	bob@example.com	Male	1990-08-05	Los Angeles	Graphic Design	Art	Bachelor of Fine Arts	Digital Art	2021-06-01	2025-05-30	<div>View</div> <div>Edit</div> <div>Delete</div>
Emily Wilson	2021006	emily@example.com	Female	1997-02-18	Boston	Environmental Science	Environmental Science	Bachelor of Environmental Science	Climate Change	2022-03-15	2025-03-14	<div>View</div> <div>Edit</div> <div>Delete</div>
Emma Watson	2021008	emma@example.com	Female	1994-04-15	London	Acting	Arts	Bachelor of Fine Arts	Drama	2021-09-01	2025-05-30	<div>View</div> <div>Edit</div> <div>Delete</div>
Jane Doe	2021002	jane@example.com	Female	1998-03-20	San Francisco	Data Science	Computer Science	Master's Degree	Machine Learning	2022-01-15	2024-12-31	<div>View</div> <div>Edit</div> <div>Delete</div>
John Doe	2021001	john@example.com	Male	1995-01-15	New York	Programming	IT	Bachelors Degree	Computer Science	2021-09-01	2025-05-30	<div>View</div> <div>Edit</div> <div>Delete</div>
Michael Johnson	2021005	michael@example.com	Male	1994-06-25	Seattle	Physics	Science	Bachelor of Science	Quantum Mechanics	2021-10-01	2024-09-30	<div>View</div> <div>Edit</div> <div>Delete</div>

Showing 1 to 10 of 13 entries

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EDIT STUDENT

Student Interest System

Dashboard

Student List

Edit Student

Full Name

Full Name

Roll Number

Roll Number

Email Address

Email Address

Gender

Select an option

Date of Birth

Date of Birth

City

Select an option

Interest

Select an option

Department

Select an option

Degree Title

Select an option

Subject

Subject

Start Date

Start Date

End Date

End Date

Update

Cancel

DELETE STUDENT

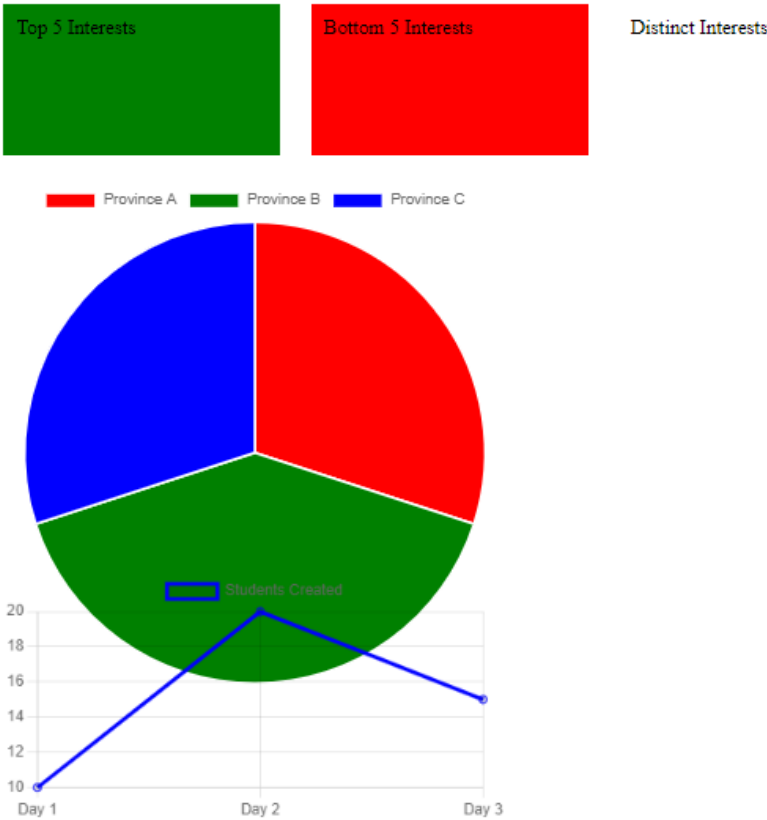
Delete Student Confirmation

Are you sure you want to delete this student?

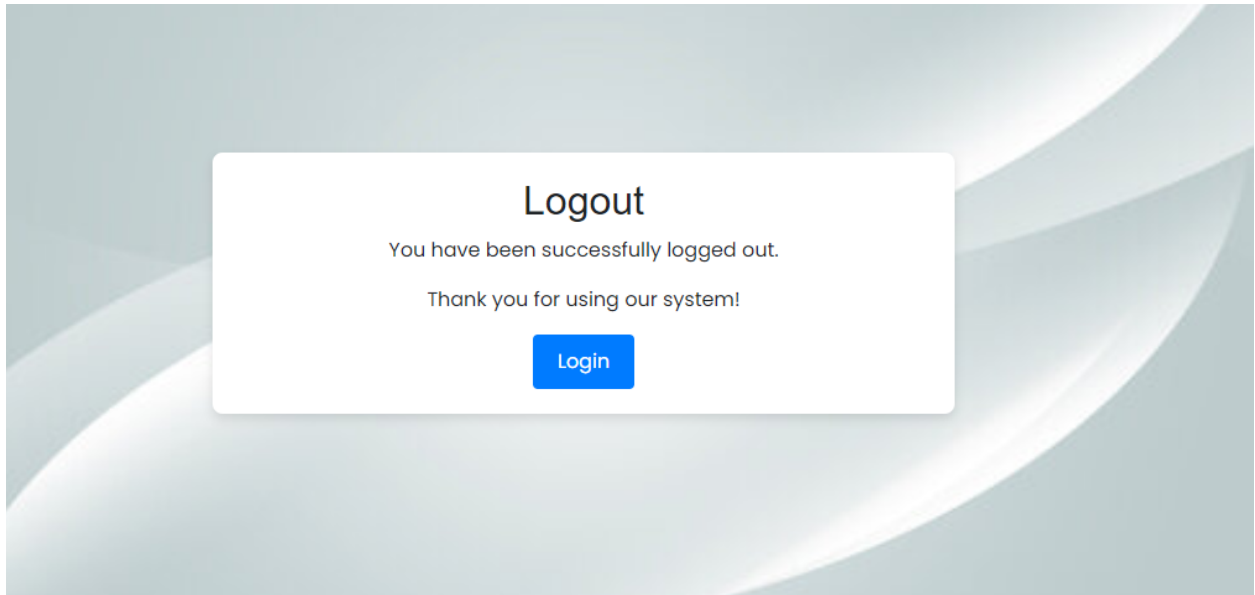
Confirm Delete

Cancel

DASHBOARD



LOGOUT



THANK YOU