

PL/SQL

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MINI PROJECT

EduAdmit: A Smart College Admission Platform

Submitted by:

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in partial fulfilment for the award of the degree of

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Submitted to

Dr. Ashaq Hussain Bhat

DECLARATION

I hereby declare that the project titled "**EduAdmit: A Smart College Admission Platform**" is an original work carried out by me under the guidance of **Dr. Ashaq Hussain Bhat**. The project has been completed as part of the academic requirements for MCA.

The work presented in this report has not been submitted elsewhere for any other academic purpose. Any references made to the work of others have been duly acknowledged in the report.

I take full responsibility for any mistakes or errors that may exist in this report.

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(Signature of Guide)

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Introduction

In today's era of digital transformation, educational institutions are increasingly shifting toward automated systems to improve administrative efficiency. One of the most crucial aspects of college administration is the admission process, which involves managing vast amounts of student data such as names, courses, contact details, and admission statuses. Traditionally, this process was handled manually through registers or spreadsheets, making it tedious, time-consuming, and prone to errors. To address these challenges, the **A Smart College Admission Platform (College Admission System)** has been developed as an efficient and intelligent software application that automates the management of student admission records and streamlines institutional workflows.

The **A Smart College Admission Platform (College Admission System)** is built using **Python**, leveraging the **Tkinter** library for the graphical user interface (GUI) and **SQLite3** for secure and lightweight data storage. This combination allows the creation of an interactive, user-friendly application capable of handling complex data operations with minimal effort. The system enables administrators to perform essential functions such as adding new student entries, updating admission statuses, searching existing records, and deleting outdated data. By automating these operations, the software eliminates repetitive manual work, reduces the risk of data duplication, and ensures accurate and reliable record management. Each student record contains vital details including the student's name, roll number, course, email, phone number, and admission status, providing a complete digital profile in a structured format.

The main objective of this project is to provide a **digital solution for admission management**, ensuring that educational institutions can handle student data efficiently and securely. The system not only increases administrative productivity but also minimizes human intervention, ensuring smoother operation of the admission process. Its modular design makes it easy to maintain and upgrade, allowing for future enhancements such as login authentication, cloud-based storage, and report generation. Overall, the **College Admission System** bridges the gap between traditional manual record-keeping and modern digital data management, providing a fast, organized, and scalable platform for educational institutions to manage student admissions effectively.

Objectives

- Automate the process of recording student admission data.
- Provide a simple, interactive GUI for administrators.
- Enable searching and filtering of student records.
- Allow updating of admission statuses (Pending, Approved, Rejected).
- Maintain a persistent database using SQLite3.
- Support error handling, data validation, and user-friendly feedback.

Technologies Used

Component	Technology
Programming Language	Python 3.x
GUI Framework	Tkinter
Database	SQLite3
Modules Used	sqlite3, tkinter, ttk, messagebox
IDE Used	Visual Studio Code / PyCharm
Operating System	Windows / Linux

These technologies together create a lightweight, cross-platform desktop application.

Project Overview

The College Admission System allows users to manage admission records through a graphical interface. It offers CRUD (Create, Read, Update, Delete) functionality and search features.

Each student record includes details such as:

- Name
- Roll Number
- Course
- Email
- Phone Number
- Admission Status

The system prevents duplication of student entries by using **unique name constraints**. It also allows administrators to update the admission status (e.g., from Pending to Approved or Rejected), delete records, or view all students.

System Functionality Overview

The application provides the following core features:

- **Add Record:** Inserts a new student admission entry into the database.
- **Search Record:** Searches by name or roll number.
- **Update Status:** Updates admission status of a selected record.
- **Delete Record:** Removes unwanted entries after confirmation.
- **Show All:** Displays the entire student list in a Tree view table.
- **Clear Fields:** Resets all input fields for new data entry.

A responsive and color-coded GUI enhances usability for administrators.

Algorithm Theory

6.1 Record Management Algorithm

Purpose: To add, update, and delete admission records.

Steps:

1. Capture input values from entry fields.
2. Validate mandatory fields (name, roll number, course).
3. Insert or update the record in the SQLite database.
4. Commit changes and refresh the data table.

6.2 Search & Update Algorithm

Purpose: To filter and modify records dynamically.

Steps:

1. Accept search input from the user.
2. Execute SQL SELECT with LIKE filters.
3. Display matched results in the Tree view widget.
4. On selection, update status or delete record.

7. System Architecture

The project follows a three-tier architecture:

- **Presentation Layer (Frontend):**

Built with Tkinter, this layer handles data input, button clicks, and visual display of results.

- **Application Layer (Logic):**

Contains Python functions that process user input, run SQL commands, and manage GUI updates.

- **Data Layer (Backend):**

SQLite3 database that permanently stores admission records.

Data Flow:

User Input → GUI → SQL Query Execution → Database → Display on GUI Table

8.Source Code Explanation

The project contains key Python functions:

Key Functions:

- **add_record():** Adds a new admission entry.
- **update_status():** Updates the selected student's admission status.
- **search_record():** Searches students by name or roll number.
- **delete_record():** Removes a record permanently.
- **fetch_data():** Retrieves all rows from the database for display.
- **clear_fields():** Resets input fields to default.

GUI Components:

- Tkinter Frames for layout organization.
- Entry widgets and Combo box for inputs.
- Tree view widget for displaying the database records.
- Buttons linked to CRUD operations.

Code:

```
File Edit Selection View Go Run Terminal Help  Search

sql1.py X
C: > Users > Mounika > OneDrive > Desktop > python > prime > sql1.py > ...
1  import tkinter as tk
2  from tkinter import ttk, messagebox
3  import sqlite3
4
5  # -----
6  # DATABASE SETUP
7  # -----
8  conn = sqlite3.connect("college_admission.db")
9  cursor = conn.cursor()
10
11 # Create table with UNIQUE name
12 cursor.execute("""
13 CREATE TABLE IF NOT EXISTS admissions (
14     id INTEGER PRIMARY KEY AUTOINCREMENT,
15     name TEXT UNIQUE,
16     roll_no TEXT,
17     course TEXT,
18     email TEXT,
19     phone TEXT,
20     status TEXT
21 )
22 """)
23 conn.commit()
24
25 # Insert sample records (only once)
26 sample_data = [
27     ("Aarav Sharma", "25MCA1001", "MCA", "aarav@example.com", "9876543210", "Approved"),
28     ("Priya Patel", "25MCA1002", "MCA", "priya@example.com", "9876501234", "Pending"),
29     ("Rohan Mehta", "25BTECH1003", "B.Tech", "rohan@example.com", "9988776655", "Approved"),
30     ("Isha Gupta", "25BBA1004", "BBA", "isha@example.com", "9090909090", "Rejected"),
31     ("Karan Singh", "25BSC1005", "B.Sc", "karan@example.com", "9123456789", "Pending"),
32     ("Neha Verma", "25MBA1006", "MBA", "neha@example.com", "9876123450", "Approved"),
33     ("Vikram Das", "25BCA1007", "BCA", "vikram@example.com", "9988001122", "Pending"),
34     ("Sneha Reddy", "25MCOM1008", "M.Com", "sneha@example.com", "9001122334", "Approved"),
35     ("Aditya Rao", "25MSC1009", "M.Sc", "aditya@example.com", "9123459000", "Rejected"),
36     ("Simran Kaur", "25BA1010", "B.A", "simran@example.com", "9900887766", "Pending")
37 ]
```

```

File Edit Selection View Go Run Terminal Help
C: > Users > Mounika > OneDrive > Desktop > python > prime > sql1.py > clear_fields

39 for data in sample_data:
40     try:
41         cursor.execute("INSERT INTO admissions (name, roll_no, course, email, phone, status) VALUES (?, ?, ?, ?, ?, ?)", data)
42     except sqlite3.IntegrityError:
43         pass # Ignore duplicates
44 conn.commit()
45
46 # -----
47 # MAIN APPLICATION
48 # -----
49 root = tk.Tk()
50 root.title("College Admission System")
51 root.geometry("950x600")
52 root.config(bg="#E8F0F2")
53
54 # -----
55 # FUNCTIONS
56 # -----
57 def clear_fields():
58     name_var.set("")
59     roll_var.set("")
60     course_var.set("")
61     email_var.set("")
62     phone_var.set("")
63     status_var.set("Pending")
64
65 def add_record():
66     name = name_var.get().strip()
67     roll = roll_var.get().strip()
68     course = course_var.get().strip()
69     email = email_var.get().strip()
70     phone = phone_var.get().strip()
71     status = status_var.get()
72
73     if name == "" or roll == "" or course == "":
74         messagebox.showwarning("Input Error", "Name, Roll No, and Course are required!")
75     return

```

```

File Edit Selection View Go Run Terminal Help
C:\Users\> Mounika > OneDrive > Desktop > python > prime > sql.py > update_status

65 def add_record():
66     try:
67         cursor.execute("INSERT INTO admissions (name, roll_no, course, email, phone, status) VALUES (?, ?, ?, ?, ?, ?)",
68                         (name, roll, course, email, phone, status))
69         conn.commit()
70         fetch_data()
71         clear_fields()
72         messagebox.showinfo("Success", f"Student '{name}' added successfully!")
73     except sqlite3.IntegrityError:
74         messagebox.showerror("Duplicate Name", f"Student '{name}' already exists! Names must be unique.")
75
76 def fetch_data():
77     cursor.execute("SELECT * FROM admissions")
78     rows = cursor.fetchall()
79     admission_table.delete(*admission_table.get_children())
80     for row in rows:
81         admission_table.insert("", tk.END, values=row)
82
83 def search_record():
84     query = search_var.get()
85     cursor.execute("SELECT * FROM admissions WHERE name LIKE ? OR roll_no LIKE ?", ('%' + query + '%', '%' + query + '%'))
86     rows = cursor.fetchall()
87     admission_table.delete(*admission_table.get_children())
88     for row in rows:
89         admission_table.insert("", tk.END, values=row)
90
91 def update_status():
92     selected = admission_table.focus()
93     if not selected:
94         messagebox.showwarning("Selection Error", "Please select a record to update!")
95         return
96     data = admission_table.item(selected, 'values')
97     new_status = status_var.get()
98     cursor.execute("UPDATE admissions SET status=? WHERE id=?", (new_status, data[0]))
99     conn.commit()
100    fetch_data()
101    messagebox.showinfo("Updated", f"Status updated to '{new_status}'")

```

```

File Edit Selection View Go Run Terminal Help  ← →  Search

sql1.py X
C: > Users > Mounika > OneDrive > Desktop > python > prime > sql1.py > update_status

114 def delete_record():
115     selected = admission_table.focus()
116     if not selected:
117         messagebox.showwarning("Selection Error", "Please select a record to delete!")
118         return
119     data = admission_table.item(selected, 'values')
120     confirm = messagebox.askyesno("Confirm Delete", f"Delete record for {data[1]}?")
121     if confirm:
122         cursor.execute("DELETE FROM admissions WHERE id=?", (data[0],))
123         conn.commit()
124         fetch_data()
125         messagebox.showinfo("Deleted", "Record deleted successfully")
126
127 # -----
128 # GUI COMPONENTS
129 # -----
130 title = tk.Label(root, text=" College Admission System", font=("Arial", 22, "bold"), bg="#E8F0F2", fg="#2E4F4F")
131 title.pack(pady=15)
132
133 frame = tk.Frame(root, bg="#E8F0F2")
134 frame.pack(pady=5)
135
136 # Input fields
137 name_var = tk.StringVar()
138 roll_var = tk.StringVar()
139 course_var = tk.StringVar()
140 email_var = tk.StringVar()
141 phone_var = tk.StringVar()
142 status_var = tk.StringVar(value="Pending")
143 search_var = tk.StringVar()
144
145 labels = ["Name", "Roll No", "Course", "Email", "Phone", "Status"]
146 vars = [name_var, roll_var, course_var, email_var, phone_var, status_var]
147
148 for i, text in enumerate(labels):
149     tk.Label(frame, text=text + ":", font=("Arial", 11), bg="#E8F0F2").grid(row=i, column=0, sticky="w", padx=10, pady=5)
150     if text == "Status":

```

Ln 107, Col 52 Sp

```

File Edit Selection View Go Run Terminal Help  Search
sql1.py X
C:\Users\> Mounika > OneDrive > Desktop > python > prime > sql1.py > ...

151     ttk.Combobox(frame, textvariable=status_var, values=["Pending", "Approved", "Rejected"], width=27).grid(row=i, column=1, padx=10, pady=5)
152     else:
153         tk.Entry(frame, textvariable=vars[i], width=30).grid(row=i, column=1, padx=10, pady=5)
154
155     # Buttons
156     btn_frame = tk.Frame(root, bg="#E8F0F2")
157     btn_frame.pack(pady=10)
158
159     tk.Button(btn_frame, text="Add Record", command=add_record, width=15, bg="#4CAF50", fg="white").grid(row=0, column=0, padx=5)
160     tk.Button(btn_frame, text="Update Status", command=update_status, width=15, bg="#2196F3", fg="white").grid(row=0, column=1, padx=5)
161     tk.Button(btn_frame, text="Delete Record", command=delete_record, width=15, bg="#F44336", fg="white").grid(row=0, column=2, padx=5)
162     tk.Button(btn_frame, text="Clear Fields", command=clear_fields, width=15, bg="#9E9E9E", fg="white").grid(row=0, column=3, padx=5)
163
164     # Search bar
165     search_frame = tk.Frame(root, bg="#E8F0F2")
166     search_frame.pack(pady=10)
167     tk.Entry(search_frame, textvariable=search_var, width=30).grid(row=0, column=0, padx=10)
168     tk.Button(search_frame, text="Search", command=search_record, width=10, bg="#607D8B", fg="white").grid(row=0, column=1, padx=5)
169     tk.Button(search_frame, text="Show All", command=fetch_data, width=10, bg="#795548", fg="white").grid(row=0, column=2, padx=5)
170
171     # Table
172     table_frame = tk.Frame(root)
173     table_frame.pack(pady=10, fill="both", expand=True)
174
175     columns = ("ID", "Name", "Roll No", "Course", "Email", "Phone", "Status")
176     admission_table = ttk.Treeview(table_frame, columns=columns, show="headings", height=10)
177
178     for col in columns:
179         admission_table.heading(col, text=col)
180         admission_table.column(col, width=120, anchor="center")
181
182     admission_table.pack(fill="both", expand=True)
183
184     # Fetch initial data
185     fetch_data()
186
187     root.mainloop()

```

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Output Screenshots

Figure 1: Main Application Interface

College Admission System

College Admission System

Name:

Roll No:

Course:

Email:


Phone:

Status:

ID	Name	Roll No	Course	Email	Phone	Status
1	Aarav Sharma	25MCA1001	MCA	aarav@example.com	9876543210	Approved
2	Priya Patel	25MCA1002	MCA	priya@example.com	9876501234	Pending
4	Isha Gupta	25BBA1004	BBA	isha@example.com	9090909090	Approved
5	Karan Singh	25BSC1005	B.Sc	karan@example.com	9123456789	Pending
6	Neha Verma	25MBA1006	MBA	neha@example.com	9876123450	Approved
7	Vikram Das	25BCA1007	BCA	vikram@example.com	9988001122	Pending
8	Sneha Reddy	25MCOM1008	M.Com	sneha@example.com	9001122334	Approved
9	Aditya Rao	25MSC1009	M.Sc	aditya@example.com	9123459000	Rejected
10	Simran Kaur	25BA1010	B.A	simran@example.com	9900887766	Pending

Figure 2 and 3: Add Record Form

College Admission System


College Admission System

Name:
Roll No:
Course:
Email:
Phone:
Status:

Add Record Update Status Delete Record Clear Fields

Search Show All

ID	Name	Roll No	Course	Email	Phone	Status
1	Aarav Sharma	25MCA1001	MCA	aarav@example.com	9876543210	Approved
2	Priya Patel	25MCA1002	MCA	priya@example.com	9876501234	Pending
4	Isha Gupta	25BBA1004	BBA	isha@example.com	9090909090	Approved
5	Karan Singh	25BSC1005	B.Sc	karan@example.com	9123456789	Pending
6	Neha Verma	25MBA1006	MBA	neha@example.com	9876123450	Approved
7	Vikram Das	25BCA1007	BCA	vikram@example.com	9988001122	Pending
8	Sneha Reddy	25MCOM1008	M.Com	sneha@example.com	9001122334	Approved
9	Aditya Rao	25MSC1009	M.Sc	aditya@example.com	9123459000	Rejected
10	Simran Kaur	25BA1010	B.A	simran@example.com	9900887766	Pending

College Admission System

College Admission System

Name:

Roll No:

Course:

Email:

Phone:

Status:

ID	Name	Roll No	Course	Email	Phone	Status
1	Aarav Sharma	25MCA1001	MCA	aarav@example.com	9876501234	Approved
2	Priya Patel	25MCA1002	MCA	priya@example.com	9876501234	Pending
4	Isha Gupta	25BBA1004	BBA	isha@example.com	9090909090	Approved
5	Karan Singh	25BSC1005	B.Sc	karan@example.com	9123456789	Pending
6	Neha Verma	25MBA1006	MBA	neha@example.com	9876123450	Approved
7	Vikram Das	25BCA1007	BCA	vikram@example.com	9988001122	Pending
8	Sneha Reddy	25MCOM1008	M.Com	sneha@example.com	9001122334	Approved
9	Aditya Rao	25MSC1009	M.Sc	aditya@example.com	9123459000	Rejected
10	Simran Kaur	25BA1010	B.A	simran@example.com	9900887766	Pending

Success

Student 'Mounika' added successfully!

OK

Figure 4 and 5: Search & Update Window

College Admission System

College Admission System

Name:
Roll No:
Course:
Email:
Phone:
Status:

Add Record Update Status Delete Record Clear Fields

MCA Search Show All

ID	Name	Roll No	Course	Email	Phone	Status
1	Aarav Sharma	25MCA1001	MCA	aarav@example.com	9876543210	Approved
2	Priya Patel	25MCA1002	MCA	priya@example.com	9876501234	Pending

College Admission System

College Admission System

Name:
Roll No:
Course:
Email:
Phone:
Status:

Add Record Update Status Delete Record

Search

Updated
Status updated to 'Approved'

ID	Name	Roll No	Course	Email	Phone	Status
1	Aarav Sharma	25MCA1001	MCA	aarav@example.com	9876501234	Approved
2	Priya Patel	25MCA1002	MCA	priya@example.com	9876501234	Pending
4	Isha Gupta	25BBA1004	BBA	isha@example.com	9090909090	Approved
5	Karan Singh	25BSC1005	B.Sc	karan@example.com	9123456789	Approved
6	Neha Verma	25MBA1006	MBA	neha@example.com	9876123450	Approved
7	Vikram Das	25BCA1007	BCA	vikram@example.com	9988001122	Pending
8	Sneha Reddy	25MCOM1008	M.Com	sneha@example.com	9001122334	Approved
9	Aditya Rao	25MSC1009	M.Sc	aditya@example.com	9123459000	Rejected
10	Simran Kaur	25BA1010	B.A	simran@example.com	9900887766	Pending

Figure 6: Delete the record

College Admission System

College Admission System

Name:

Roll No:

Course:

Email:

Phone:

Status:

ID	Name	Roll No	Course	Email	Phone	Status
4	Isha Gupta	25BBA1004	BBA	isha@example.com	9123456789	Approved
5	Karan Singh	25BSC1005	B.Sc	karan@example.com	9876123450	Approved
6	Neha Verma	25MBA1006	MBA	neha@example.com	9988001122	Pending
7	Vikram Das	25BCA1007	BCA	vikram@example.com	9001122334	Approved
8	Sneha Reddy	25MCOM1008	M.Com	sneha@example.com	9123459000	Rejected
9	Aditya Rao	25MSC1009	M.Sc	aditya@example.com	9900887766	Pending
10	Simran Kaur	25BA1010	B.A	simran@example.com	9988776655	Approved
23	Rohan Mehta	25BTECH1003	B.Tech	rohan@example.com	645039022	Approved
24	Mounika	25MCI10070	MCA	mounika@example.com		Approved

Confirm Delete

Delete record for Rohan Mehta?

College Admission System

College Admission System

Name:

Roll No:

Course:

Email:

Phone:

Status:

ID	Name	Roll No	Course	Email	Phone	Status
2	Priya Patel	25MCA1002	MCA	priya@example.com	9090909090	Pending
4	Isha Gupta	25BBA1004	BBA	isha@example.com	9123456789	Approved
5	Karan Singh	25BSC1005	B.Sc	karan@example.com	9876123450	Approved
6	Neha Verma	25MBA1006	MBA	neha@example.com	9988001122	Pending
7	Vikram Das	25BCA1007	BCA	vikram@example.com	9001122334	Approved
8	Sneha Reddy	25MCOM1008	M.Com	sneha@example.com	9123459000	Rejected
9	Aditya Rao	25MSC1009	M.Sc	aditya@example.com	9900887766	Pending
10	Simran Kaur	25BA1010	B.A	simran@example.com	9988776655	Approved
24	Mounika	25MCI10070	MCA	mounika@example.com		Approved

Deleted

Record deleted successfully

Figure 7: Admission Status Table Display

College Admission System

College Admission System

Name:
Roll No:
Course:
Email:
Phone:
Status:

Add Record Update Clear Fields

Search Show All

ID	Name	Roll No	Course	Email	Phone	Status
1	Aarav Sharma	25MCA1001	MCA	aarav@example.com	9876543210	Approved
2	Priya Patel	25MCA1002	MCA	priya@example.com	9876501234	Pending
4	Isha Gupta	25BBA1004	BBA	isha@example.com	9090909090	Approved
5	Karan Singh	25BSC1005	B.Sc	karan@example.com	9123456789	Approved
6	Neha Verma	25MBA1006	MBA	neha@example.com	9876123450	Approved
7	Vikram Das	25BCA1007	BCA	vikram@example.com	9988001122	Pending
8	Sneha Reddy	25MCOM1008	M.Com	sneha@example.com	9001122334	Approved
9	Aditya Rao	25MSC1009	M.Sc	aditya@example.com	9123459000	Rejected
10	Simran Kaur	25BA1010	B.A	simran@example.com	9900887766	Pending
24	Mounika	25MCI10070	MCA	mounika@example.com	645039022	Approved

Result

The system was successfully executed with the following outcomes:

- Admission records were stored and retrieved efficiently.
- Status updates were reflected in real time.
- Duplicate entries were restricted using unique name validation.
- GUI was clean, fast, and interactive.

Conclusion

The **College Admission System** effectively demonstrates how modern programming tools can be utilized to simplify and automate administrative processes in educational institutions. By integrating **Python**, **Tkinter**, and **SQLite3**, the project successfully replaces traditional, manual methods of managing student admissions with a more structured and efficient digital approach. The system allows administrators to seamlessly add, update, delete, and search student records, thereby reducing manual errors, saving time, and improving overall operational productivity. Through its intuitive graphical interface, the application provides a smooth user experience and ensures that all data remains organized and accessible at all times.

This project highlights the practical implementation of database connectivity, GUI design, and logical data handling within a single application. It not only fulfils its objective of managing admission data efficiently but also provides a strong foundation for the development of more advanced institutional management systems. The successful integration of front-end and back-end components in this project demonstrates the potential of Python as a versatile language for building real-world, data-driven applications. Overall, the **College Admission System** represents an important step toward digital transformation in education, promoting accuracy, efficiency, and eco-friendly, paperless record management.

Future Scope

1. Integrate login authentication for admin access.
2. Export data to Excel or PDF for record keeping.
3. Add data visualization (e.g., number of admissions by course).
4. Implement cloud-based database storage.
5. Provide multi-user access over a network.
6. Enable automatic email or SMS notifications for admission updates.
7. Add search filters for courses, status, and academic year.
8. Include data backup and restore functionality for safety.
9. Develop a mobile or web-based interface for remote access.
10. Integrate AI tools to analyze admission trends and predict future enrollments

References

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