
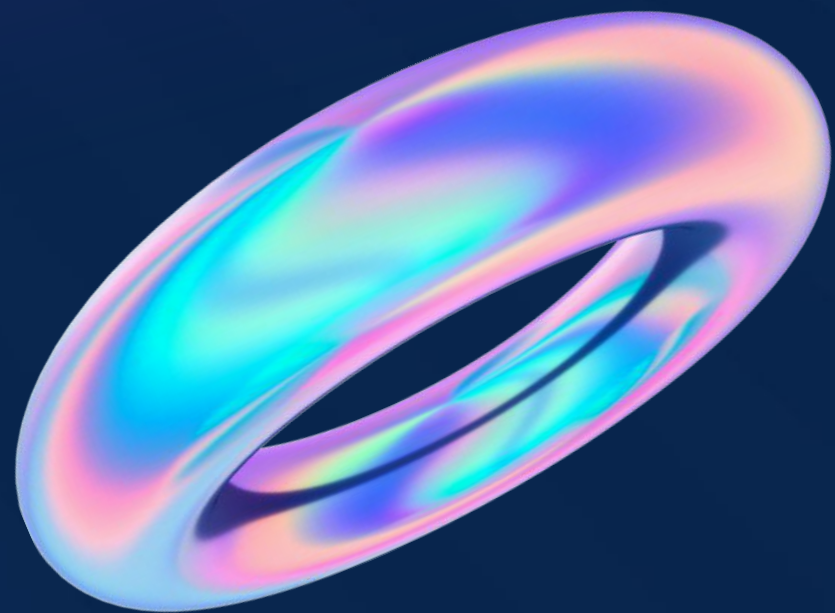


EDUBOT – COLLEGE ENQUIRY CHATBOT



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Problem Statement / Objective



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Objective:

To build a college enquiry chatbot that provides quick responses to common student queries using Java and MySQL.

Problem Solved:

Students waste time asking repetitive questions about fees, exams, timetable, etc. EduBot helps automate this process.

SWIPE



Features of EduBot

GUI-based chatbot using Java Swing
Responds to queries like:

- What is the fee?
- Who is the HOD?
- When is the exam?

Connects to MySQL using JDBC

Stores chat history in database

Handles "help" and "exit" commands

Error handling using try-catch

Input validation to avoid crashes



Technologies Used



- Java (JDK 17) – Core language
 - Java Swing – GUI design
- JDBC – Database connectivity
- MySQL – Backend database
 - IntelliJ IDEA – IDE used
- GitHub – Version control and submission



System Architecture / Flowchart



[User] [Chatbot GUI] [ChatbotDAO] [MySQL DB]

!

[DBConnection.java]

- Inputs go through GUI
DAO DB
- Responses are shown
in output area
- Chat history saved in DB

SWIPE



Database Schema



Database Name: chatbot_db

Table 1: queries

- id (INT, PRIMARY KEY)
- question (VARCHAR)
- answer (TEXT)

Table 2: chat_history

- id (INT, PRIMARY KEY)
- question (TEXT)
- answer (TEXT)
- timestamp (TIMESTAMP)

SWIPE



Output

Generated files

```
Welcome to EduBot!
```

```
You: when will semester exam start?
```

```
Bot: semester exam will start from 29 April 2025.
```

 Compiled and executed in 31.231 sec(s)



Conclusion & Future Scope

Conclusion:

EduBot is a lightweight and efficient chatbot for college-related queries. It improves student experience and saves staff time.

Future Scope:

- Add voice-based input
- Deploy as a web-based chatbot
- Add multilingual support
- Integrate with WhatsApp or Telegram

BACK

