

LPU-AICA

ARTIFICIAL INTELLIGENCE COMMUNICATION ASSISTANT

TEAM DETAILS

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L OVELY
P ROFESSIONAL
U NIVERSITY

“School of Computer Science and Engineering”

Lovely Professional University

Phagwara, Punjab.

Introduction:

- The main motive of the project is building an auto-reply chatbot
- Evenly it should be useful for inserting and deleting the information of the student
- Depending on that coding part is divided into multiple classes and methods.
- The whole application is contributed to Java.

Requirements

- Visual Studio My SQL
- Dial flow API
- org.apache.sling.commons.log-2.1.2
- Slf4j-api-2.0.99
- Webcam-capture-0.3.12
- Figma
- SQL
- JFrames
- Java swing
- Service Account

Classes Used:

→Home class where the main is present.

→Start class.

→Chat class

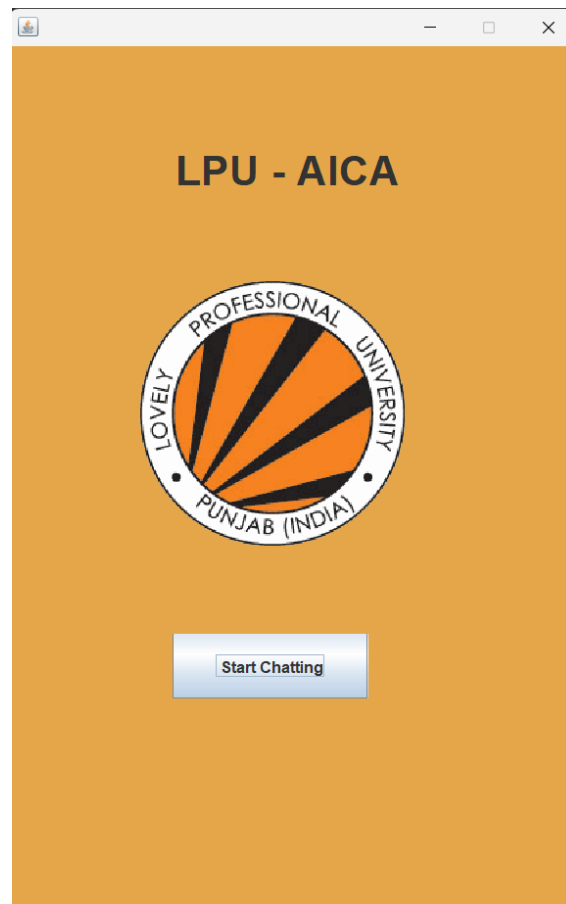
→Insert class.

→Delete class.

→An Extra function to communicate with API

→There are methods in the classes that are used to perform operations as mentioned in the software requirement specifications

Start Module:-



→The start module prompts with a Name of the project and the logo of the lovely professional university

→There after there is a start button to move into the next Frame named chat.

→The background color of the frame is not available by default in Java swing

→So we used Java awt to make our required color for good looking interface for the chat-bot

→add ActionListener is used to navigate next page

Chat Module:-

→The chat module is made up of multiple panels so that it could get separated from the chat field, text field, and header

→The text field is used to implement input from the user and get the message



→The top header consists of icons and images that are bought for a better appearance of the icon

→ The image icon is used to insert images in the panel.

→Video and menu are packed with mouse listeners.

→Those are discussed separately in the next menu bar.

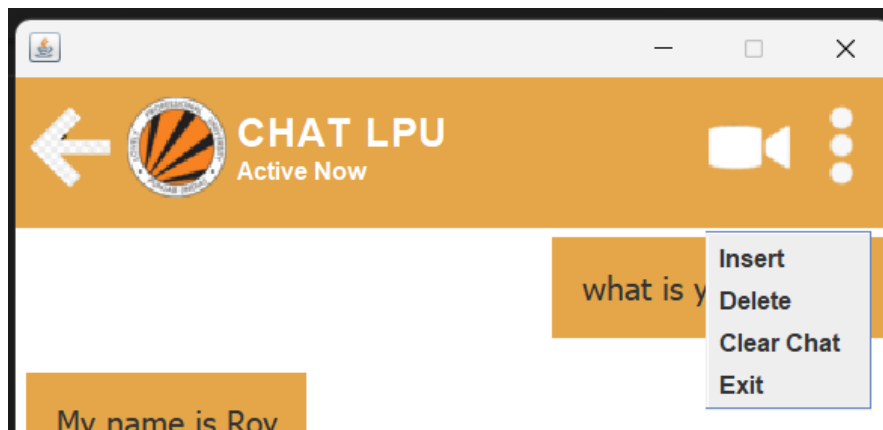
→The send button is used to send the messages.

Dialog Flow Module:-

- The Dialog flow is an API provided by Google
- Text that is bought from the chat module sent to API
- Dialog flow provides a reply performing string tokenization and provides a reply
- The reply that is given by dialog flow were some pre-trained intents.

Menu and Camera Module:-

- On hover of the menu bar it gives 4 options
- On hover of the Camera it opens the camera for the user



- The insert and delete button allows the user to perform operations on the database
- Clear chat removes the content from the panel of the chat area
- Exit terminates the program

Insert Module:-

→ The database takes the basic information about the Student store the values in the database

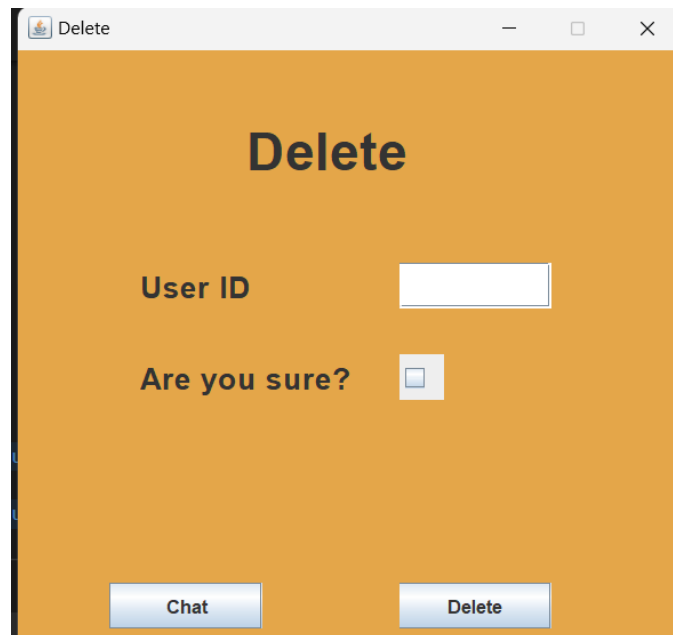


The screenshot shows a web browser window titled 'Insert'. The page has an orange background and the word 'INSERT' in large, bold, black capital letters at the top center. Below the title, there are five input fields, each with a label to its left: 'User ID', 'Name', 'Attendance', 'C.G.P.A', and 'Image'. The first four fields are white text boxes, while the 'Image' field is a blue button labeled 'File'. At the bottom of the form, there are two blue buttons: 'Insert' on the left and 'Home' on the right.

→ On click the Insert button it will insert the values in the database

→ On click the Home button it will direct you to the chat page is a chat function

Delete Module:-



→The delete module takes the information from the user that is the user id and that deletes the row where the id is given

Elements used:-

- JLabel
- JTextField
- JButton
- ImageIcon
- JComboBox
- JFileChooser

Conclusion:-

- Chatbots have become an increasingly popular tool for businesses and individuals to communicate with customers and users.
- The AICA can make a casual chat with Humans
- It can provide information regarding LPU

References:-

- LPU Live
- Chat-GPT
- Geeks For Geeks
- Java Point
- Tutorial point
- Udemy