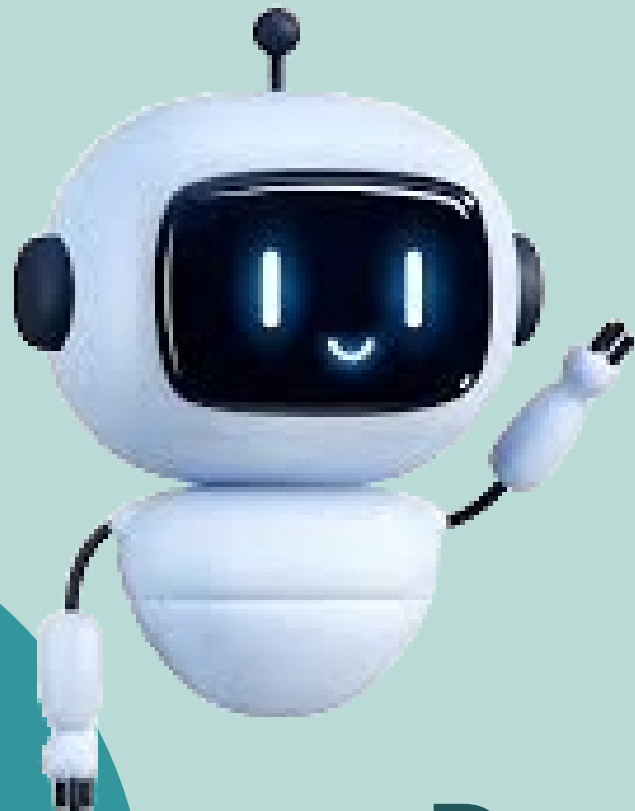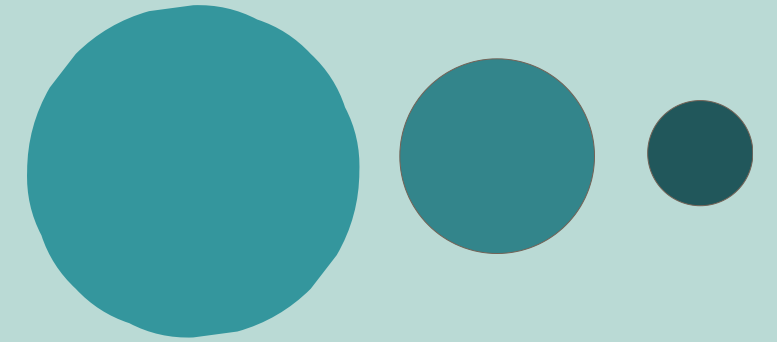# HACK-O-WEEK

Week 1

Design a rule based chatbot that answers 10-15 fixed institute FAQs using simple if-else or pattern matching.
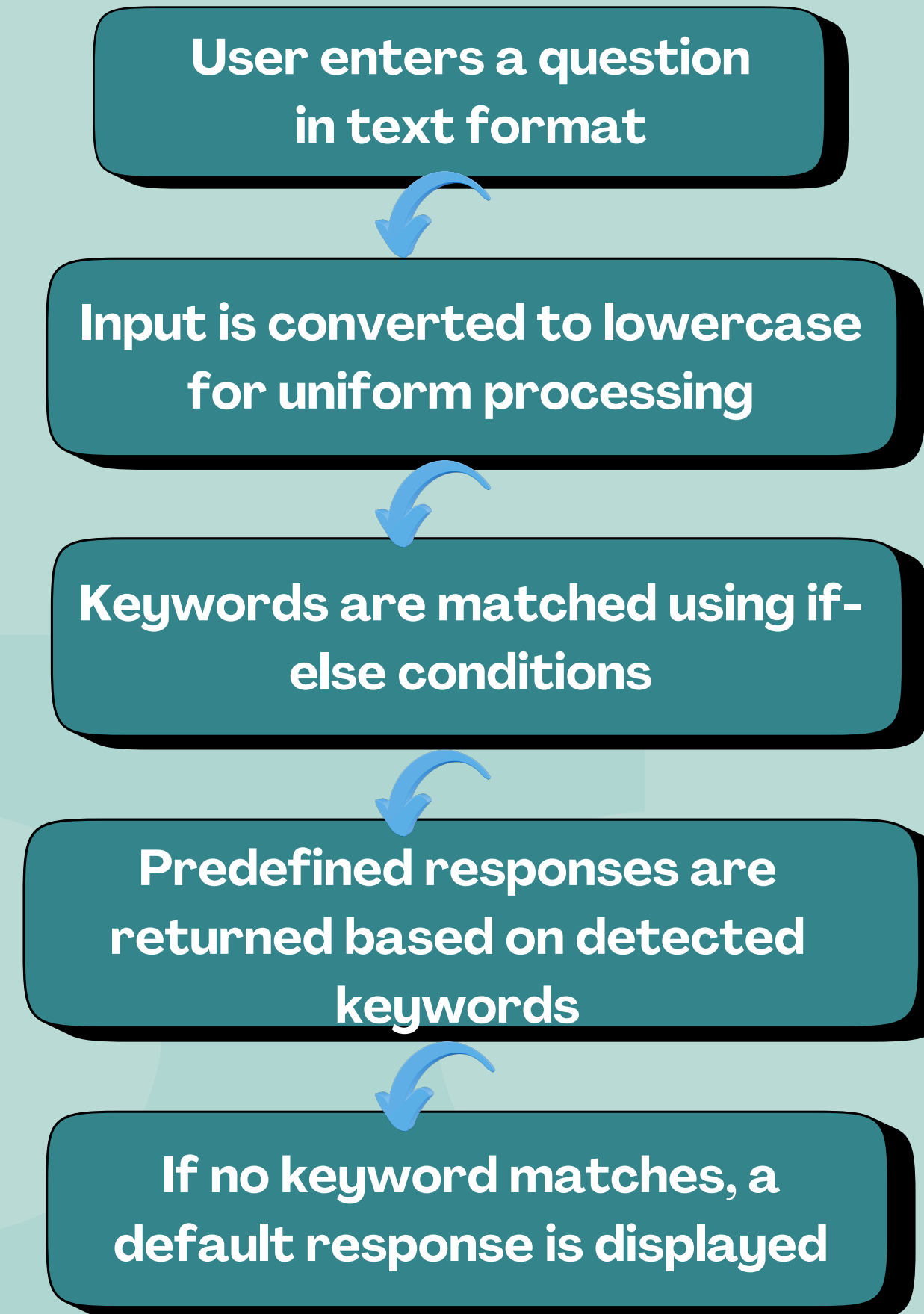
Introduction

- Students often have common questions regarding admissions, fees, timings, hostel, etc.
- Manually answering repetitive queries is time-consuming.
- Chatbots can automate responses and provide instant support.
- This project focuses on building a basic rule-based FAQ chatbot as a foundation.

OBJECTIVE OF THE PROJECT

- To design a simple rule-based chatbot
- To answer frequently asked institute-related questions
- To understand the working of rule-based systems
- To build a base for advanced AI-based chatbot development in future weeks

METHODOLOGY / APPROACH

User enters a question in text format

Input is converted to lowercase for uniform processing

Keywords are matched using if-else conditions

Predefined responses are returned based on detected keywords

If no keyword matches, a default response is displayed
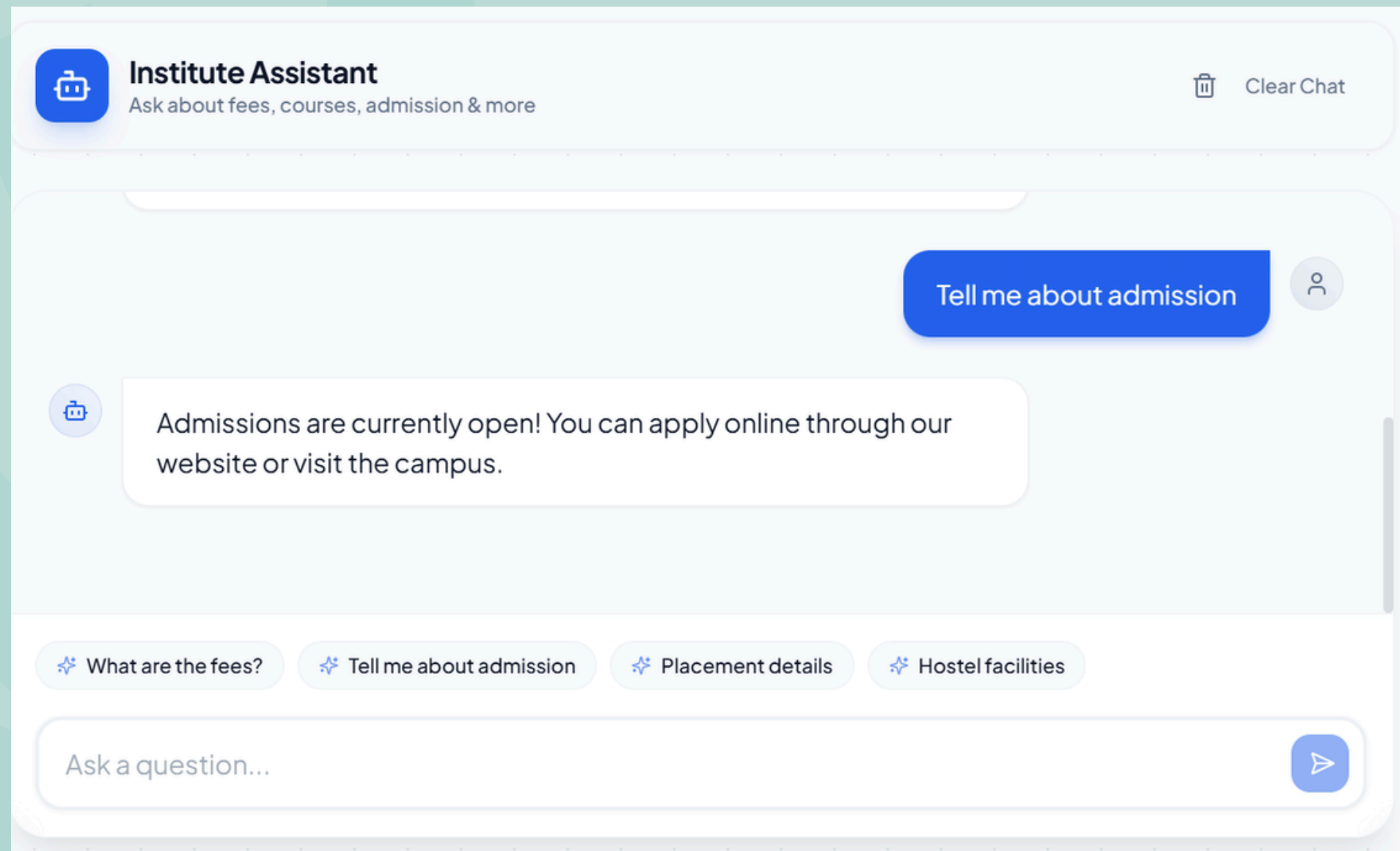
IMPLEMENTATION DETAILS

Programming Language : Python

Technique Used: Rule-based logic

Key Concepts :

- Keyword matching
- Conditional statements
- Loop for continuous interaction
- Chatbot runs in command line interface (CLI)

OUTPUT & RESULTS

- Chatbot successfully answers FAQs related to:
  - Institute timings
  - Fees
  - Admissions
  - Courses
  - Hostel
  - Placements
- Provides instant responses
- Terminates safely when user types exit

Example:

User: What are the institute timings?

Bot: The institute operates from 9 AM to 5 PM.

Institute Assistant
Ask about fees, courses, admission & more

🗑 Clear Chat

Tell me about admission

Admissions are currently open! You can apply online through our website or visit the campus.

✦ What are the fees?   ✦ Tell me about admission   ✦ Placement details   ✦ Hostel facilities

Ask a question...

CONCLUSION & FUTURE SCOPE

- A basic rule-based chatbot was successfully implemented
- Useful for handling repetitive queries
- Easy to understand and implement

Thank You