KONKAN GYANPEETH COLLEGE OF ENGINEERING,KARJAT
Affiliated to university of mumbai , approvrd by AICTE, new delhi.

COLLEGE ENQUIRY CHATBOT

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CONTENTS

- Introduction
- Literature Survey
- Problem Statement
- Objective
- Scope
- Software and hardware requirements
- Architecture
- Implementation
- Technologies
- Conclusion
- References

INTRODUCTION

- Nowadays, we see the chat bots everywhere Chat bots are the source of answers to the users questions in any particular domain where it is operating.

- This System provides answers to the queries of the Users. User just have to enter his query and the system analyzes the key words and answers the query.

- A chatbot is an artificially intelligent creature which can converse with humans. This could be text-based conversation.

- The need for college inquiry system arises due to various reasons which include: the slow nature of college website, an outsider would not know where to search for a particular piece of information, difficult for the person outside college's domain to extract information.

- The college inquiry system will provide the response by summarizing the query and then output answers, it also provides selective information what the user wants.

- A college system will dispense all answers relating to domains such as admission, examination cell, notice, departments, placement, infrastructure and other miscellaneous domains.

LITERATURE SURVEY

PARAMETERS	PAPER 1	PAPER 2	PAPER 3
TITLE	Chatbot based College Information System.	A Review on College Enquiry Chatbot.	Smart College Chatbot.
AUTHOR	Ram Manoj Sharma	Jayesh Gangrade Surinder Singh Surme Sumant Somu Poonam Gup	Ashok Kumar Vaishnavi Putnala Ajay Krishna Palakurthi
PUBLICATION YEAR	2019	2019	2020
TOOLS	Artificial Intelligence, Machine Learning, Natural Language Processing.	Artificial Intelligence Markup Language.	Artificial Intelligence, Machine learning, Natural Language Processing.
APPLICATIONS	1. A college enquiry chatbot has been proposed. The college enquiry chatbot is built using artificial algorithms. The bot analyses user queries and understand user message. 2. A chatterbot or chatbot aims to make a conversation between both human and machine.	1. This paper presents the design and development of an intelligent voice recognition chat bot. 2. Chabot can be described as software that can chat with people using artificial intelligence.	1. This College Chatbot System is a web based application which gives responses to the user queries. 2. This project aimed to implement online chatbot system to assist users who access college website, using tools.

LITERATURE SURVEY

PARAMETERS	PAPER 1	PAPER 2	PAPER 3
METHODOLOGY	1. Parsing 2. AIML 3. Chat Script 4. Pattern Matching	1. AIML Language 2. Keyword Matching 3. Chat Script	1. Natural Language Processing 2. NLTK
INPUT METHOD	Android Studio Program AB	Algorithms Database used	Tokenization Database used
OUTPUT METHOD	Table used Artificial Intelligence Language	Websites Table used	Lemmatization

PROBLEM STATEMENT

- Artificial intelligence chatbot is a technology that makes interactions between man and machines using natural language possible.

- Extension and prerequisite enabled relations between responses that significantly make it easier for user to chat with chatbot using the same approach as chatting with an actual human.

- Chatbot can give different responses from the same input given by user according to current conversation issue.

OBJECTIVE

- ✓ Chatbot is used to be an information and advising system.

- ✓ To identify the user queries.

- ✓ Chatbot web widget integration on your websites.

- ✓ College related queries could be answered through it.

- ✓ College students can fetch particulars about college activities.

- ✓ To minimize the time required to solve the queries.

SCOPE

- This system will be web application which will provide answers to the quires of the users.

- In todays world as there are everything is digital. In education system work is very lengthy and time consuming and also required extra manpower. We develop this application for students, teachers, parents and guest. In this project we implement android application due to this application If application saves time for the student as well as teaching and non-teaching staffs. It is useful for parents also to check college details or important notices.

How chatbot works?

Get input from the user

⇩

Process input & return the value that generated the highest confidence value from the logic adapters.

⇩

Return the response for the input.

⇩

Received output.

SOFTWARE AND HARDWARE REQUIREMENTS

Software Requirement:

➢ Windows 7 or higher

➢ Any Text Editor

Hardware Requirement:

➢ i3 Processor or higher

➢ 4GB-RAM

➢ 80 GB Hard Disk

➢ Internet Connection

Advantages :

➢ For the User, there is no need to visit the college personally to enquiry about the college related information.

➢ This system is developed aiming at reducing the time for the student, parents as well as the faculty at the institution.

Disadvantages :

➢ Requires active internet connection.

Applications :

➢ It enables the students to be updated with college activities.

➢ It is providing us a readily available information source without taking any physical efforts.

➢ It is easily accessible and saving time and money also.

ARCHITECTURE

- Its a chat-bot For simplicity reasons in this article, it is assumed that the user will type in text and the bot would respond back with an appropriate message in the form of text.
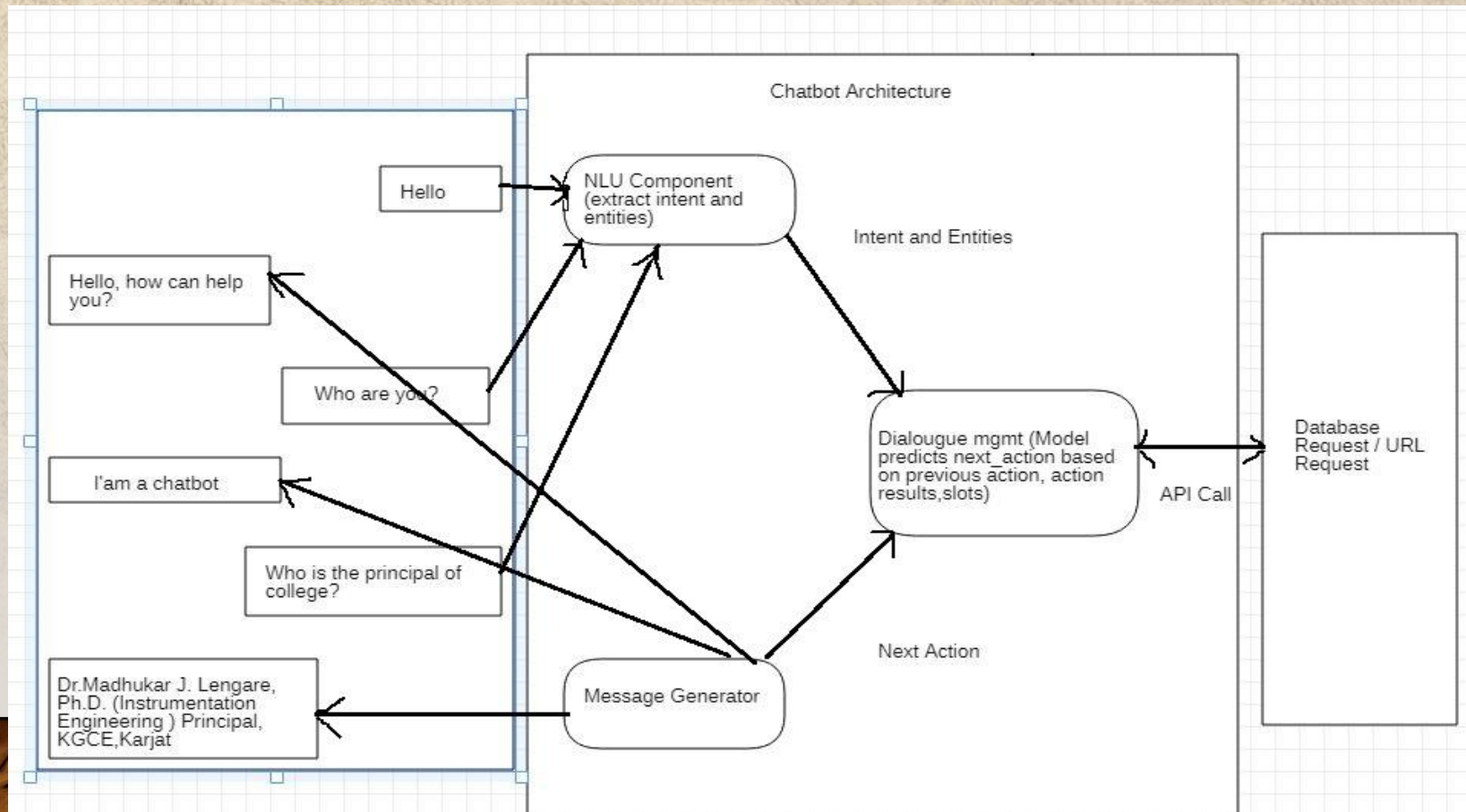
IMPLEMENTATION

FLOWCHART :
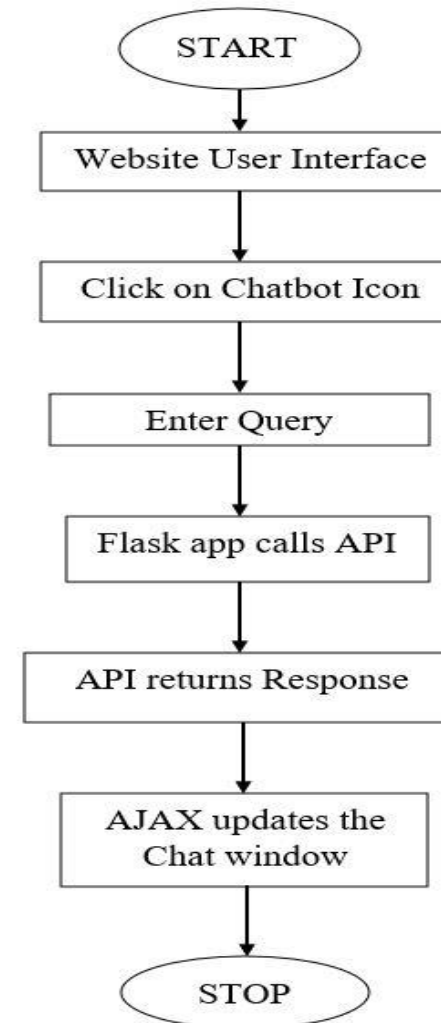
➤ FLASK

Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. However, Flask supports extensions that can add application features as if they were implemented in flask itself.

```python
kernel = aiml.Kernel()

kernel.learn('std-startup.xml')
kernel.respond('load aiml b')

app = Flask(__name__)

@app.route('/')
def index():
    return render_template('index.html')

@app.route('/<query>')
def api(query):
    response = kernel.respond(query)
    if response[:4] == 'http':
        return "<a href='" + response + "' target='_blank'>Click here for more info</a>"
    else:
        return kernel.respond(query)

if __name__ == '__main__':
    app.run(debug=True)
```

AIML

- AIML stands for Artificial Intelligence Modelling Language.
- AIML is an XML based markup language meant to create Artificial Intelligent Applications.
- AIML makes it possible to create human interfaces while keeping the implementation simple to program, easy to understand and highly maintainable.



```
bot.py          std-startup.xml          bot_profile.aiml

1  <aiml version = "1.0.1" encoding = "UTF-8">
2  <!-- This category works with the Standard AIML Set -->
3  <category>
4  <pattern>LOAD AIML B</pattern>
5  <template>
6  <!-- Load standard AIML set -->
7  <learn>data/*.aiml</learn>
8  </template>
9  </category>
10 </aiml>
```

```
bot.py      aboutcollege.aiml      bot_profile.aiml      host_primi_trans.aiml      admission.aiml

1   <?xml version="1.0" encoding="UTF-8"?>
2   <aiml>
3   <category>
4     <pattern>* INSTITUTE *</pattern>
5     <template >https://kgce.edu.in/about-institute/</template>
6   </category>
7   <category>
8     <pattern>* INSTITUTE </pattern>
9     <template >https://kgce.edu.in/about-institute/</template>
10  </category>
11  <category>
12    <pattern> INSTITUTE *</pattern>
13    <template >https://kgce.edu.in/about-institute/</template>
14  </category>
15  <category>
16    <pattern>* COLLEGE *</pattern>
17    <template >https://kgce.edu.in/about-institute/</template>
18  </category>
19  <category>
20    <pattern>* COLLEGE </pattern>
21    <template >https://kgce.edu.in/about-institute/</template>
22  </category>
23  <category>
24    <pattern> COLLEGE *</pattern>
25    <template >https://kgce.edu.in/about-institute/</template>
26  </category>
27  <category>
28    <pattern>* TRUST *</pattern>
29    <template >https://kgce.edu.in/about-institute/</template>
30  </category>
31  <category>
32    <pattern>TRUST *</pattern>
33    <template >https://kgce.edu.in/about-institute/</template>
34  </category>
35  <category>
36    <pattern>* TRUST</pattern>
37    <template >https://kgce.edu.in/about-institute/</template>
```
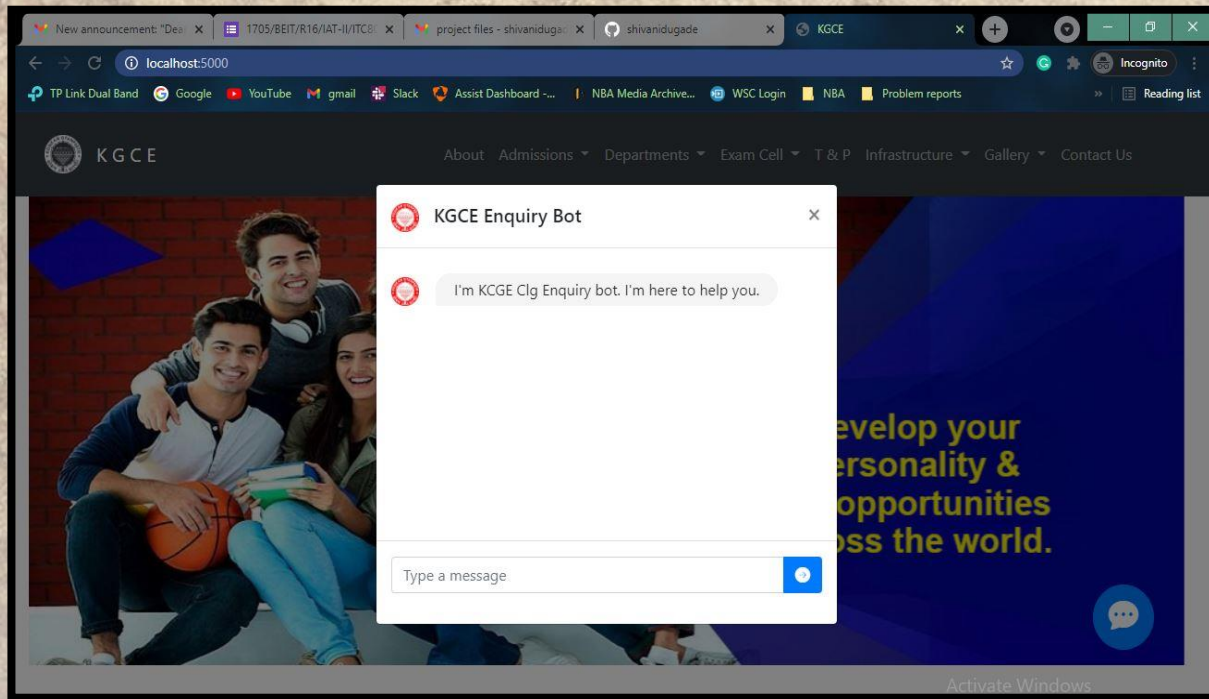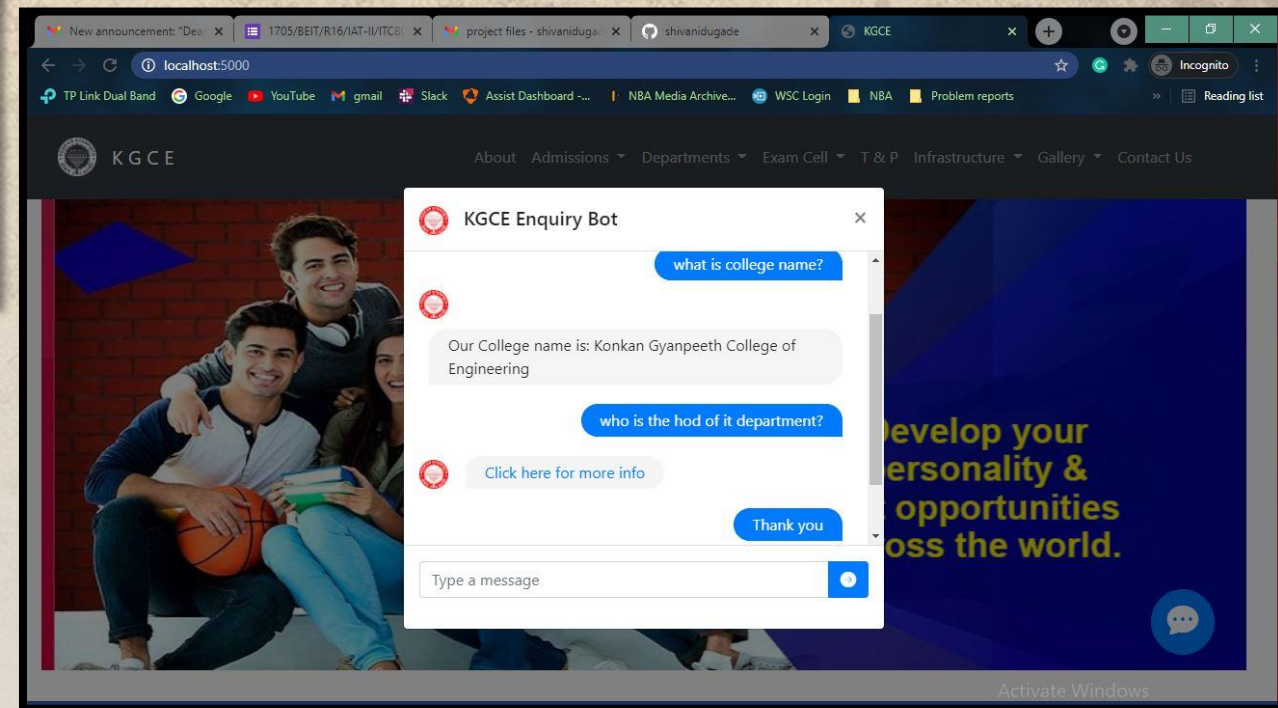
TECHNOLOGIES

RESULT ANALYSIS :
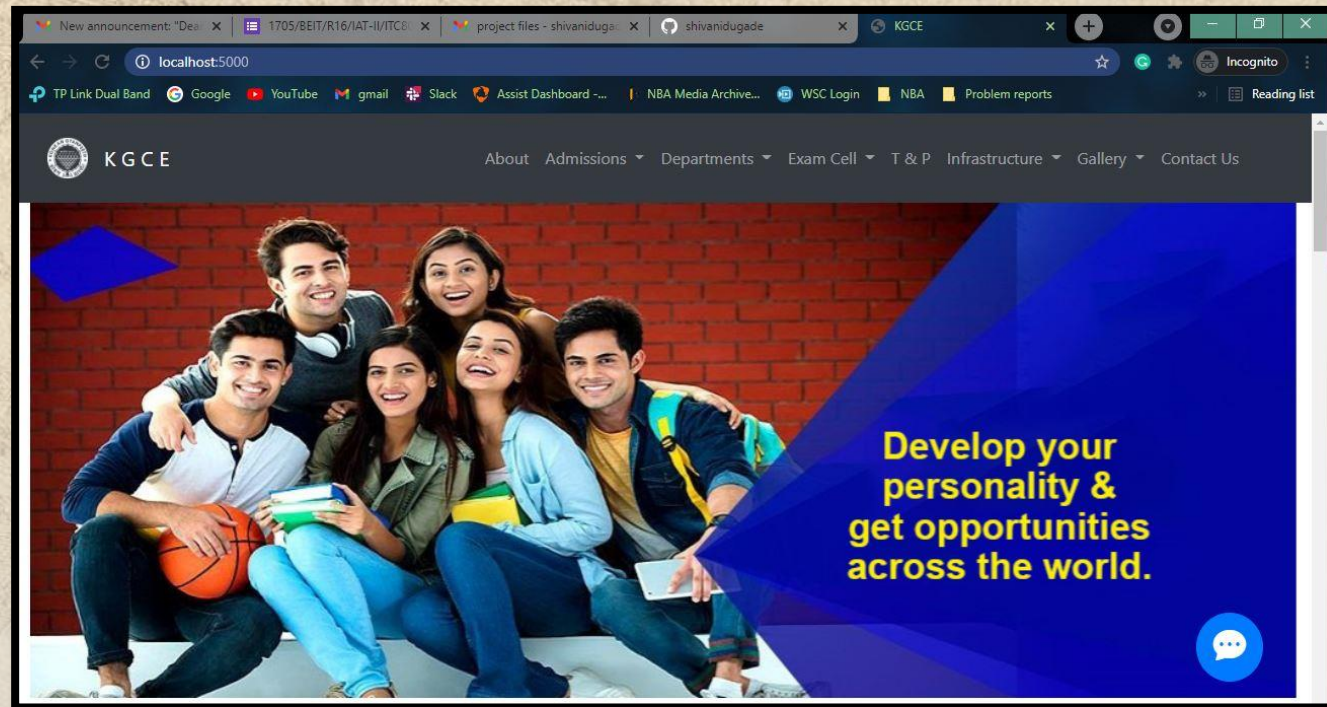
Chatbot Website

Chatbot

Chat Window

CONCLUSION

- ✓ In this project, we have introduced a chatbot application in android which is able to interact with users.

- ✓ The main objectives of the project were to develop an algorithm which will be wont to identify answers associated with user submitted questions.

- ✓ The college student and employees can freely upload their queries. The chatbot provides fast and efficient search for answers to the queries and gets the relevant links to their question.

- ✓ A database system was designed, that stores information regarding questions, answers, keywords, logs.

REFERENCES

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THANK YOU!