



KARACHI INSTITUTE  
OF ECONOMICS &  
TECHNOLOGY

# **Parallel & Distributed Programming**

***(PNDC Theory)***

***Project Proposal Report***

***CLASS ID: 108980***

***Project Name: College Enquiry  
Chatbot***

## Project Members:

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# 1. Summary

College Enquiry Chat Bot The College bot project is built using artificial algorithms that analyses user's queries and understand user's message. This System is a web application which provides answer to the query of the student. Students just have to query through the bot which is used for chatting. Students can chat using any format there is no specific format the user has to follow. The System uses built in artificial intelligence to answer the query. The answers are appropriate what the user queries. The User can query any college related activities through the system. The user does not have to personally go to the college for enquiry. The System analyses the question and than answers to the user. The system answers to the query as if it is answered.

# 2. Introduction

A chatbot is a software application used to conduct an on- line chat conversation via text or text-to-speech, in lieu of providing direct contact with a live human agent. Designed to convincingly simulate the way a human would behave as a conversational partner. Bots can be created by using language like Artificial Intelligence Mark-up Language(AIML), a language based on XML that allow developers write rules for the bot to follow. Another drawback is writing rules for different scenarios is very time consuming and it is impossible to write rules for every possible scenario. So these bots can handle simple queries but fail to manage complex queries is stated in paper. In paper the chat-bot system is been proposed and designed using chat fuel platform and integrated in Facebook page. The chatbot has been designed to provide students feel like talking to the staff from college and their queries are addressed through the conversational text. Responses can be provided to the user in text format, pictures and with many more features provided by the chat fuel. The setup AI feature makes the bot smart and answers the queries of user.

The purpose of developing this project is based on an intellectual chat-bot system which will deal with the academic activities like admission enquiry, fees structure, scholarship details, time-table of every department, details of the documents required to attach etc. With this chat-bot system it will be easy for the student to directly clear their queries in lesser time.

### 3. Needs/Problems

#### Need:

- ❖ User does not have to go personally to college office for the enquiry.
- ❖ This application enables the students to be updated with college cultural activities.
- ❖ This application saves time for the student as well as teaching and non teaching staffs.

#### Problems:

- ❖ This system requires Internet Connection.
- ❖ If many user enquires at same time, response will be slow.

### 4. Goals/Objectives

The College Enquiry Chatbot will engage in friendly conversations, respond to the course and college information, provide a link to the tutorial calendar, and answer frequently asked questions, among other things.

### 5. Procedures/Scope of Work

A Student Chabot project could be a retrieval-based chatbot that uses AI concepts to possess conversations with humans. Once ever a user asks any question, the bot can first analyze the request, builds a response and send it back to the utilization. The chatbot can break down the user sentence into 2 things: intent and an entity. A retrieval-based chatbot is one that functions are predefined input patterns and set responses. Once the question is entered, the chatbot use a heuristic approach to deliver the suitable response. The retrieval-based model is extensively used to design goal destined chatbots with bespoke options just like the flow and tone of the bot to reinforce the client expertise. ChatBots use pattern matching to classify the text and produce a suitable or best response for the clients. A customary structure of those patterns is “Artificial Intelligence Markup Language” (AIML). The planned System could be a net application that has answers to the queries provided by the scholar or the user. Users can just question through the chatbot that is used for chatting. Students can chat by any format there isn't any specific format the user must follow. The answers are applicable what the user queries. If the answers are found to be invalid or not accessible, then those queries are hold on into the unanswered table that's basically created by the admin. Later those queries will updated by the admin, simply just in case of urgency we are provides a message that “our representatives can get to bear with you shortly”. This could be displayed once aggregation the desired data from the user. Admin can browse invalid answer through portal via login System, it's going to permits the admin to get rid of the invalid answer conjointly as in updating the acceptable answer for the question raised by the user. The User can raise any college connected activities through the system. The user does not have to be compelled to personally move to the college for enquiry. The System analyzes the question then answers to the user. The system answers to the query as if it's answered by the real person. The system replies with the assistance of a decent Graphical interface that suggests that as if a real person is rebuke the user. The user can question concerning the college connected activities through on-line with the help of this net application. This technique helps the scholar to be updated concerning the faculty related information.

## 6. Timetable

Description of Work		Start and End Dates
<b>Phase One</b>	GUI Designs Of Webforms	7 – 8 week
<b>Phase Two</b>	Database Model And Backend Coding	9 – 10 week
<b>Phase Three</b>	AI and cloud setup	11 – 12 week

You can also use a Gantt chart for more detailed project timetable:

ACTIVITY	IMPLEMENTATION TIME			RESPONSIBILITY
1. Design and implement training	Month 1	Month 2	Month 3	

program for project management	XXXXXXX			Program Manager (PM)
1.1. Conduct needs assessment		XXXXXX		Consultant
1.2. Design training modules			XXXXXX	Consultant
1.3. Conduct training			XXXXXX	Consultant
2. Improve procedure for project management	XXXXXXX	XXXXXX	XXXXXX	Program Manager
2.1. Conduct management audit of current procedures		XXXXXX		Consultant

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