

Create a Chat bot in python

PHASE 1 – PROBLEM DEFINITION AND DESIGN THINKING

Date	30 September 2023
Team ID	329
Project Name	Create a Chat bot in python

PROBLEM DEFINITION

Defining Problem Statement and prioritizing ideas based on Project.

It is a project that involves a computer program that can interact with users in a conversational manner to provide information and assistance related to various aspects of college. Here's a definition for creating a chatbot for our college:

"This Project is a software application designed to simulate human conversation and engage with college students, staff, and faculty members in order to provide information, support, and assistance regarding academic, administrative, and campus-related inquiries. It serves as a virtual assistant, responding to user queries, guiding them through various processes, and enhancing the overall college experience by offering timely and relevant information and services." That's the definition for our project at overall, the public who wants to know about the detail information of Our College. They can use our chatbot at any time and their required solutions will be given.

You May ask why this project is used for, we have given some list of ideas and thoughts that those are the reasons for creating this project.

Those reasons are given below,

PROBLEMS

Problems

Why we should use Chat Bot
&
Approaches used for Chat Bot

Ideas and Approaches

Dhanasekaren

24/7
Accessibility

NLP(Natural
Language
Processing)

Innovation
and
Modernization

Hemanth

Efficient
Information
Retrieval

Generative
Models

Assistance
for
International
Students

Gunasekar

Personalized
Assistance

Machine
Learning

Streamlined
Admissions
Process

Dilip

Campus
Navigation

Voice-Based

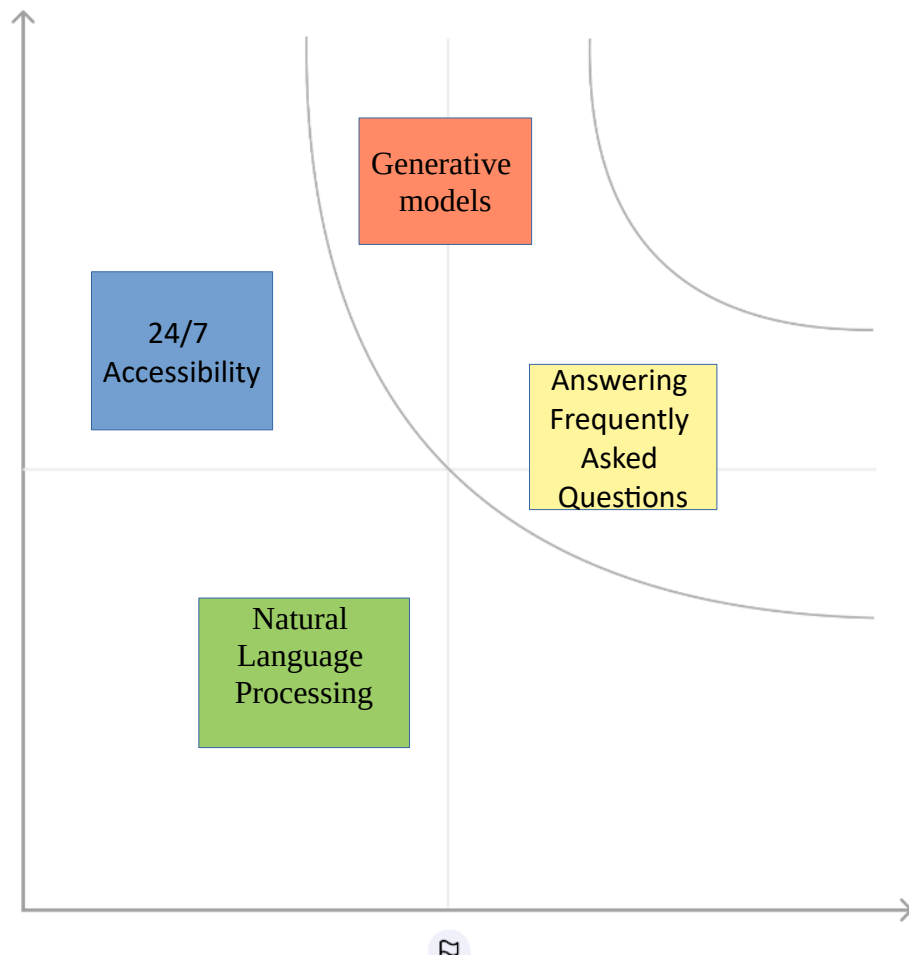
Harish MD

Event
Reminders
& Updates

Rule-Based

Prioritizing Ideas

Importance
If each of these tasks could get done without any difficulty or cost, which would have the most positive impact



Feasibility

Regardless of their importance, which tasks are more feasible than others?
(Cost, time, effort, complexity, etc)

Ideation Phase Problem Statement

Problems Statement

Problem Statement (PS)	I am (User)	I'm trying to	But	Because	Which makes me feel
PS-1	Prospective Student	Learn about admission procedures	Face complexity in navigating the college website	Lack of clear information structure	Confused, Frustrated
PS-2	Current Student	Check exam schedule for the next semester	Unable to find a centralized source for exam information	Dispersed information sources	Anxious, Overwhelmd
PS-3	Faculty Member	Submit grades for the semester	Encounter technical issues in the grading system	System glitches and slow response	Frustrated, Stressed
PS-4	Staff Member	Request information about staff training programs	Limited access to training schedules and resources	Lack of transparency in training programs	Inefficient, Dissatisfied

I am(user)
makes

I'm trying to

But

Because

Which
me feel

Problem Statement 1

Prospective Student	Learn about admission procedures	Face complexity in navigating the college website	Lack of clear information structure	Confused, Frustrated
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Problem Statement 2

Current Student	Check exam schedule for the next semester	Unable to find a centralized source for exam information	Dispersed information sources	Anxious, Overwhelmd
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Problem Statement 3

Faculty Member	Submit grades for the semester	Encounter technical issues in the grading system	System glitches and slow response	Frustrated, Stressed
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Problem Statement 4

Staff Member	Request information about staff training programs	Limited access to training schedules and resources	Lack of transparency in training programs	Inefficient, Dissatisfied
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Ideation Phase Empathize and Discover

