Batch: B-2   Roll No: 16010122151

Exp No: 1

Title: Define the Problem definition and Scope of the mini project.

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Objective:

To understand the process required for defining the problem and scope of the project

Expected Outcome of Experiment:

Course Outcome	After successful completion of the course students should be able to
CO 1	Understand the requirements for problem definition and scope.

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Books/ Journals/ Websites referred:

1. https://botpress.com/
2. https://www.youtube.com/@Botpress/playlists

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Introduction:

Problem Definition:- The issue of restricted access to easily understandable legal advice is tackled by LawGuide. Many people have difficulty comprehending and applying the law to their circumstances, which can lead to ill-informed decisions, possible legal problems, and obstacles to justice.

After referring the sample please furnish the details about your project:

Project Title:- LawGuide

Team Members:

1. Meetesh Nagrecha (1601012123),
2. Nilesh Pany (1601012131),
3. Hyder Presswala (1601012151).

Scenario:

These days most of the libraries are having number of resources such as books, journals, cds, magazines, kindle etc. for the various users such as librarian,

administrative staff, faculty and students it is difficult to search a resource check availability of the same.

Problem Definition: Difficulty in searching, issuing, returning buying resources for library

Objective:

To provide a system supporting features for searching, issuing, returning buying resources for library

Scope:

- Only software is to be developed for the purpose mentioned above.

- Give training to various users.

- Maintain the system and fix the bugs and upgrade upto ONE year after commissioning

- Procurement of hardware for using the system is **OUT OF SCOPE** of this project.

Title of Mini Project:- LawGuide

Team Members:-

1. 1. Meetesh Nagrecha (1601012123),
2. Nilesh Pany (1601012131),
3. Hyder Presswala (1601012151).

Scenario in the real world for which you are proposing a solution.

Scenario:- Consider a scenario where an individual, called Maya, is facing a legal issue related to her employment. Maya believes she has been unfairly terminated from her job and is unsure about her rights and potential courses of action.

Problem Definition: < Please write only the problem faced and do not suggest a solution here >

Many people find it hard to get simple and clear information about the law. Understanding and using legal rules for specific situations can be confusing. This difficulty in accessing straightforward legal guidance can lead to making decisions without the right information, facing potential legal problems, and having trouble getting fair treatment.

Scope of the project: < what is included in your solution and also mention what is NOT included>

Included in the Solution:-

1) User-Friendly Interface:-
- Create an intuitive web and mobile interface for easy navigation.
- Design a visually appealing and user-centric experience.
- Ensure accessibility for users with varying technical skills.

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2) Natural Language Processing (NLP):-

- Implement advanced NLP for natural and conversational interaction.
- Enable LawGuide to understand queries without legal jargon.
- Strive for a human-like chatbot experience.

3) Legal Information Retrieval:-

- Develop a comprehensive database for accurate legal information.
- Cover a wide range of legal topics to meet diverse user needs.
- Implement a user-friendly search functionality.

Not Included in the Solution:-

1) Legal Representation:-

- LawGuide does not substitute legal representation.
- Users should seek advice from qualified attorneys for legal proceedings.

2) Real-Time Legal Advice:-

- LawGuide provides general guidance, not real-time advice.
- Users should consider unique circumstances when making decisions.

Emergency Legal Situations:

3) Emergency Legal Situations:-

LawGuide is not for emergencies; users should contact legal authorities.
Seek immediate professional assistance for urgent legal matters.

Post Lab Activities (with reference to your tool):-

Q1)Why are you needed to define problem?

Ans:

Defining the problem is a crucial step in the development of a mini-project for several reasons:-

Clarity of purpose:-

Clearly defining the problem helps to define the goal and objectives of the mini-project. It defines the direction the project aims to solve or achieve.

Scope Definition:-

This helps define the boundaries and scope of the mini-project. This ensures that the project stays focused on a specific problem or challenge without becoming too complex or vague.

Targeted solutions:-

A thorough understanding of the problem enables the development of targeted and effective solutions. This ensures that the project addresses the root causes of the problem, not just its symptoms.

Stakeholder Alignment:-

Clearly defined issues facilitate better communication and alignment between project stakeholders. This includes team members, implementers and potential end users who may benefit or be affected by the project.

Resource Optimization:-

It helps to optimize the allocation of resources such as time, effort and technology. When the problem is well defined, the project team can focus on important tasks and avoid unnecessary distractions.

Project Sustainability:-

Understanding the problem allows for an early assessment of the project and feasibility. This helps identify potential challenges and risks, allowing the project team to design strategies to mitigate these factors.

Success criteria:-

A clear definition of the problem provides a basis for determining success criteria. The team can set measurable goals and indicators to determine whether the project has effectively addressed the identified problem.

Learning Objectives:-

For academic purposes, clearly defining the problem helps define specific learning objectives. With this, teachers can assess whether the student has understood the problem and can offer appropriate solutions.

Opportunities for innovation:-

A well-defined problem can also be a source of inspiration and innovation. This encourages the project team to think creatively about possible solutions and improvements.