**PROJECT6:CHATBOT DEPLOYMENT WITH IBM CLOUD WATSON ASSISTANT**

**Phase 1: Problem Definition and Design Thinking**

**Designing and deploying a chatbot involves several key steps, and applying a design thinking approach can be highly beneficial to ensure the bot addresses the right problem and meets user needs effectively. Here's a step-by-step guide on how to use design thinking for chatbot deployment**.

**Problem Definition:** **Chatbots are Artificially-Intelligent Softwares showing responsiveness towards the existing queries. Those queries may either be of a student or an employee, depending upon the requirements in real-times. But this project will promisingly let the beginners prepare a software whose database is cloud-based and let a student get responses for the queries he/she may enter. NLP i.e Natural Language Processing and ML i.e Machine Learning algorithms, a list of appropriate responses will be entered in those chatbots which will answer the questions (these are the input patterns) of a student in a goal-oriented manner.**

**Design Thinking:**

1. **Understand your target audience: Begin by empathizing with your users.**
2. **Define the problem**: **Based on your research, clearly define the problem or challenge the chatbot is meant to address.**
3. **Generate ideas:** **Encourage creativity and consider different approaches, features, and functionalities for the chatbot**.
4. **Create a low-fidelity prototype**: **Develop a basic version of the chatbot, focusing on its conversational flow and user interface.**
5. **Build the chatbot**: **Once you have a refined design, proceed with development.**
6. **Launch the chatbot: Deploy the chatbot on the chosen platform(s), such as a website, messaging app, or dedicated chatbot platform**.