

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID45306
Project Name	AI BASED DISCOURSE FOR BANKING INDUSTRY
Maximum Marks	4 Marks

Technical Architecture:

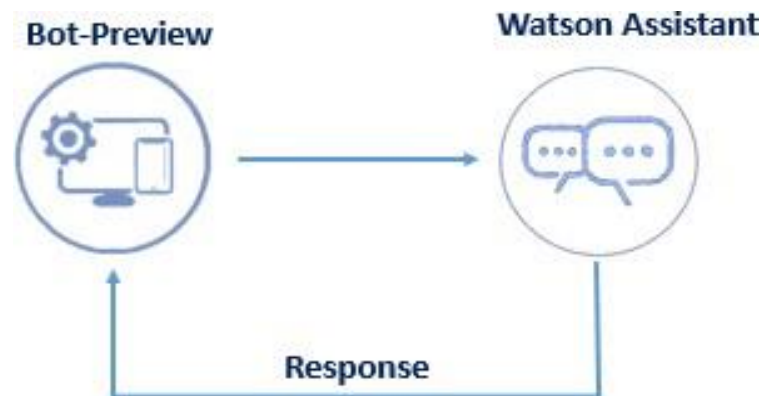


Table 1: Components & Technologies:

S. No	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface	Website	HTML, CSS, JavaScript, Python
2.	Application Logic-1	Chatbot to ask queries whenever they need	HTML, CSS, JavaScript, Python
3.	Application Logic-2	Gets the exact answer from the chatbot	IBM Watson
4.	Application Logic-3	Bot will answer to the customers queries	IBM Watson Assistant
5.	Database	To get to know about their customer details	MySQL,oracle,IBM
6.	Cloud Database	Most banks uses one of the india's most robust	IBM DB2
7.	File Storage	Private cloud	IBM block storage
8.	External API-1	Data's are stored in file system,tapes , public cloud	IBM box status API
9.	External API-2	API'S for communication between bank and client	User name and password
10.	Machine Learning Model	Analytics , account information , payment processing ML can help banks quickly identity user activity ,verify	Response
11	Infrastructure (Server / Cloud)	It and respond to cyber attacks quickly. To host the server and application	Machine learning

S.NO	Components	Description	Technology
1.	Open-source frameworks	Google Tensorflow, an open-source software framework for building and using machine learning neural networks, is very easy to set up and extend. It's the most popular deep learning framework, with the largest number of GitHub stars and the second-highest percentage of open source repositories.	PyTorch , machine learning , RNN , CNTK
2.	Security Implementation	Machine Learning, predictive analytics, and voice recognition tools are all increasing the value of digital banking services. AI Chatbots, facial recognition banking apps, and fraud detection systems and applications are all a few best examples of AI in banking and finance industry.	e.g.firewalls , authentication , encryption and authorization.
3.	Scalable Architecture	24/7 customer support means customers can get help and find answers to questions as soon as they come up—24/7 and in real-time.	Chatbot
4.	Availability	This ensures that all of its User can ask queries about banking sector data is available to the end-users at any time of the day, whenever and wherever required.	Chatbot
5.	Performance	Customers can rate banks with a high customer experience score (i.e. 10/10).	Website