

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

Date	15 October 2022
Team ID	PNT2022TMID23382
Project Name	Project – Visualizing and predicting heart disease with an interactive dashboard
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

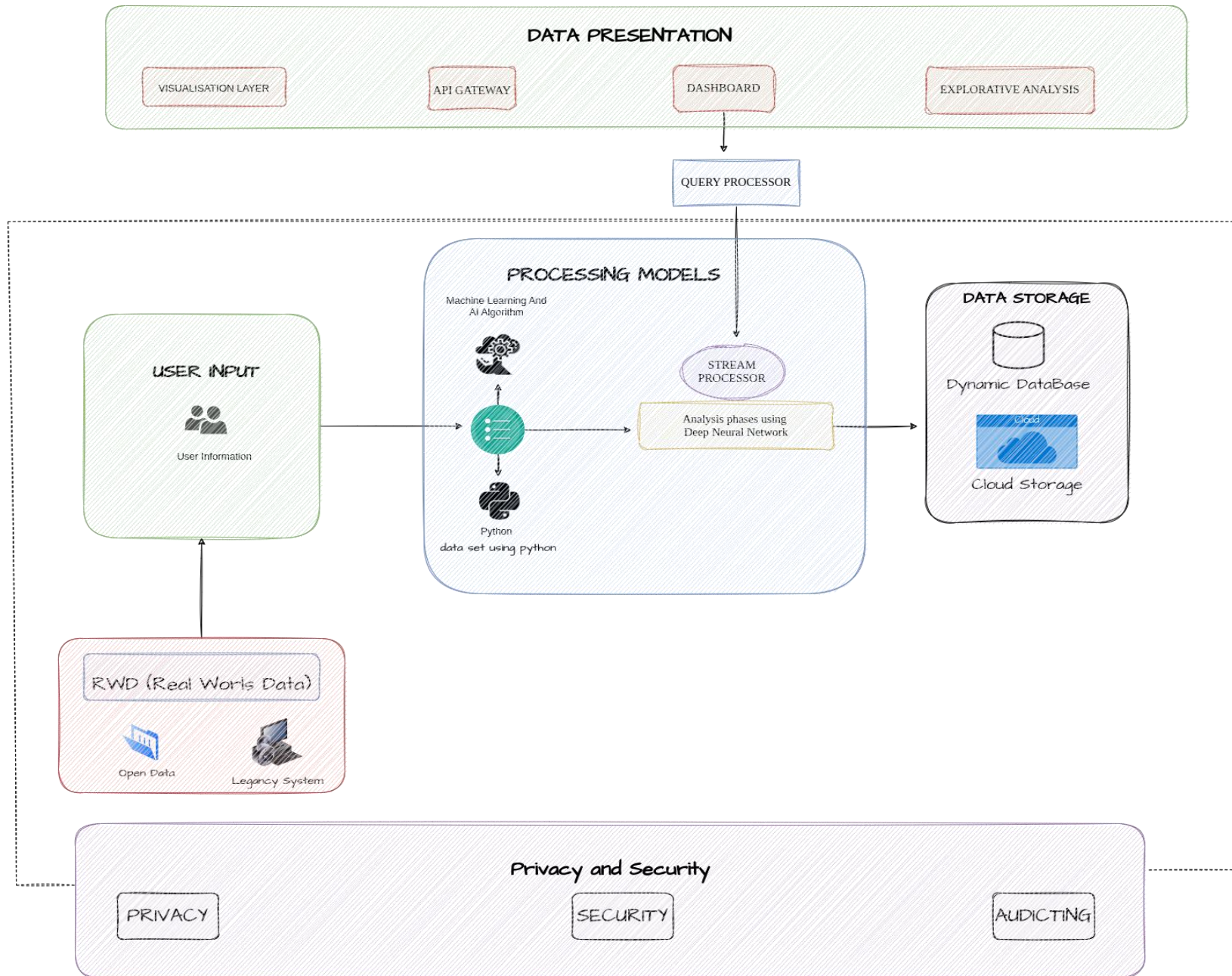


Table-1 : Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	Most important and critical aspect for a user to enter the clinical data analyze the result in the form of visualizations.	IBM Dashboard
2.	Application Logic-1	The raw data is collected from the user in this format	Excel/CSV
3.	Application Logic-2	Build conversational interfaces into any application, device, or channel.	IBM Watson Assistant
4.	File Storage	The data is saved in files and folders, and presented to both the system storing it and the system retrieving it in the same format.	Local Filesystem, Cloud
5.	Deep Neural Network	This algorithm is used prediction	Python
6.	Machine Learning Model	Machine learning technique is used to forecast target value based solely on a known history of target values. This is used for predicting the future needs.	Deep Neural Network (Python)

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Security Implementations	Every user can access the website only if they possess the password. The database is secured with encryption techniques which provides high levels of security	IAM Controls, IBM Cognos
2.	Scalable Architecture	The project allows multiple users to handle the data at the same time. It is highly scalable since adding features and making advancements in the website is uncomplicated	IBM Cognos
3.	Availability	The project is platform independent. It runs perfectly on almost every platform.	IBM Cognos
4.	Performance	The project must respond quickly to the user's actions or even if the user has to wait the waiting period must be short.	IBM Cognos