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

Date	20 October 2022
Team ID	PNT2022TMID37414
Project Name	Project – Visualizing And Predicting Heart Diseases
Maximum Marks	4 Marks

Technical Architecture:

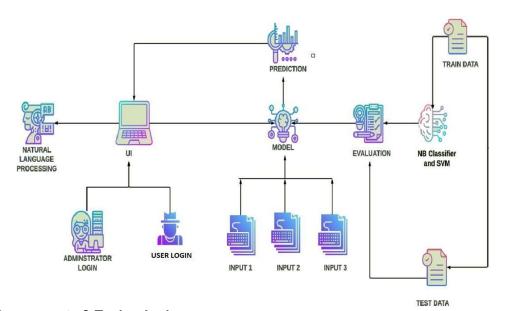The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application.To depict the human computer interaction and communicaton	HTML, CSS, JSP
2.	Application Logic-1	The page to upload images as input.	Python
3.	Application Logic-2	To use the machine learning model and predicting the result.	Python
4.	Database	Structured data - images	MySQL
5.	Cloud Database	Database Service on Cloud	IBM cloud database for MySQL

S.No		Description	
6.	File Storage	To store data in a hierarchical structure	Local Filesystem
7.	Machine Learning Model	Here we use a support vector machine algorithm that is used widely in classification and regression problems	Random forest , XG boost

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask micro web framework	Written in python
2.	Security Implementations	With all aspects of the job including detecting malicious attacks, analyzing the network, endpoint protection and vulnerability assessment ,sign in encryption	IBM Cloud App ID services
3.	Availability	available for all data size	-
4.	Performance	Can extend the storage according to our needs	Python ,Angular JS