

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	08 November 2022
Team ID	PNT2022TMID29253
Project Name	Project – Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	4 Marks

Technical Architecture:

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

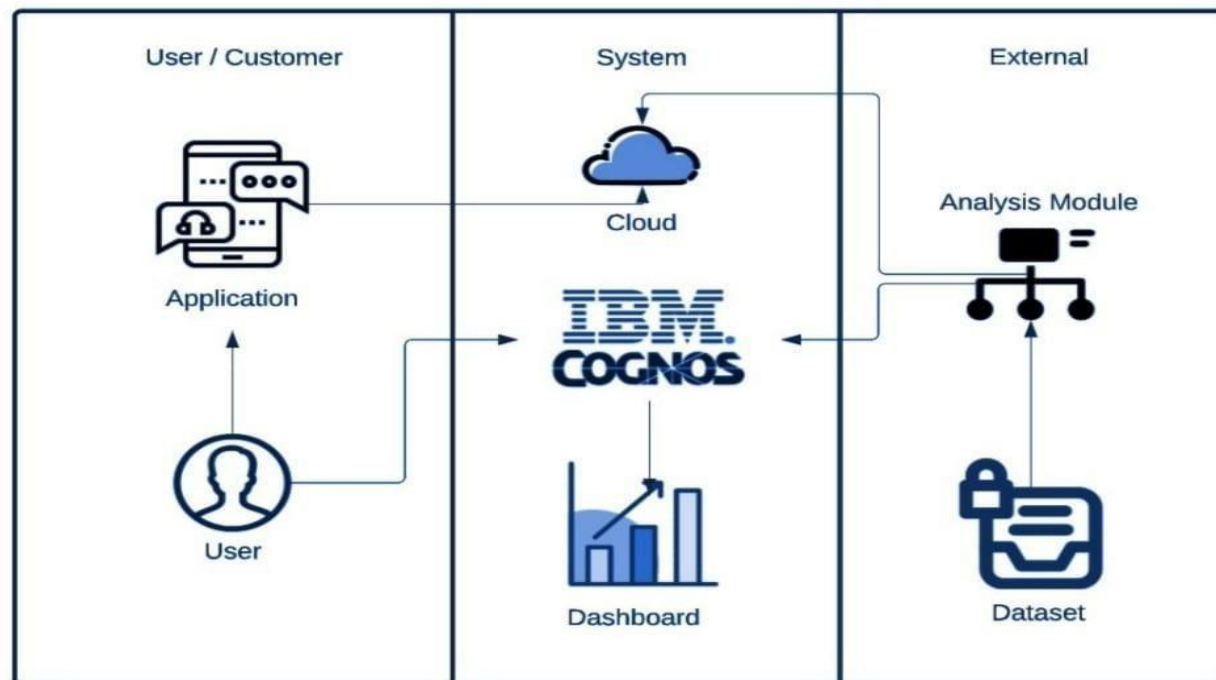


Table-1 : Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chat-bot etc.	IBM Cognos
2.	Storage Infrastructure (Cloud)	Medical data related to heart is uploaded in cloud through cloud	IBM Cloud
3.	Working with Dataset	Uploading, cleaning and pre-processing dataset	IBM Cognos + IBM Cloud
4.	Data Exploration	Uploaded data is explored to identify trends	IBM Cognos
5.	Data Visualization	Multiple types of graphs are shown according to patient medical data and requirements	IBM Cognos Dashboard
6.	Cloud Database	Database Service on Cloud	IBM Cognos, IBM Cloud etc.
7.	Viewing Data	User logs in to application to view visualizations for uploaded data	IBM Cognos Dashboard

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	IBM Cognos, IBM Cloud, IBM Watson
2.	Security Implementations	Secure user information and data	Active Directory
3.	Scalable Architecture	Support various data sizes	Web 3.0 IBM Cloud
4.	Availability	Multi page layout providing various visualizations of data and provide full support irrespective of platform and device specifications	Cognos Business Intelligence Server
5.	Performance	Withstand huge data and process them without crashing	IBM Cognos, Performance Management Hub