

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	11 November 2022
Team ID	PNT2022TMID05795
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dashboard
Maximum Marks	4 Marks

Technical Architecture:

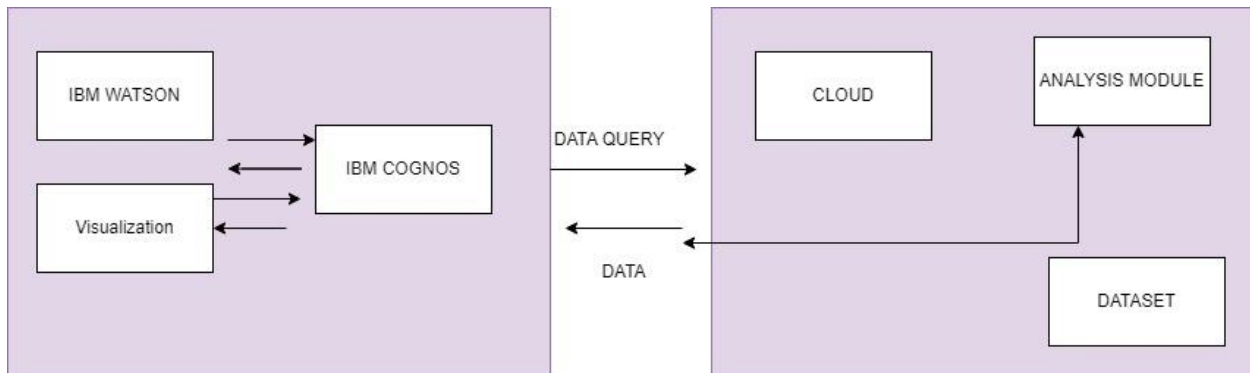


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Importing data	Data is imported from external sources and is used for analytics	IBM WATSON
2.	Data Preprocessing	Data pre-processing, a component of data preparation, describes any type of processing performed on raw data to prepare it for another data processing procedure.	IBM WATSON
3.	Training data	Training data is the subset of original data that is used to train the machine learning model.	IBM WATSON
4.	Testing data	Test data is data which has been used to check the accuracy of the ML model	IBM WATSON
5.	Train the model	Train the model using the Train and Test data.	IBM WATSON
6.	Model performance evaluation	One metric for measuring classification model performance is accuracy.	IBM WATSON

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used