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

Date	22 October 2022
Team ID	PNT2022TMID12879
Project Name	Project - Visualizing and Predicting Heart Diseases 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
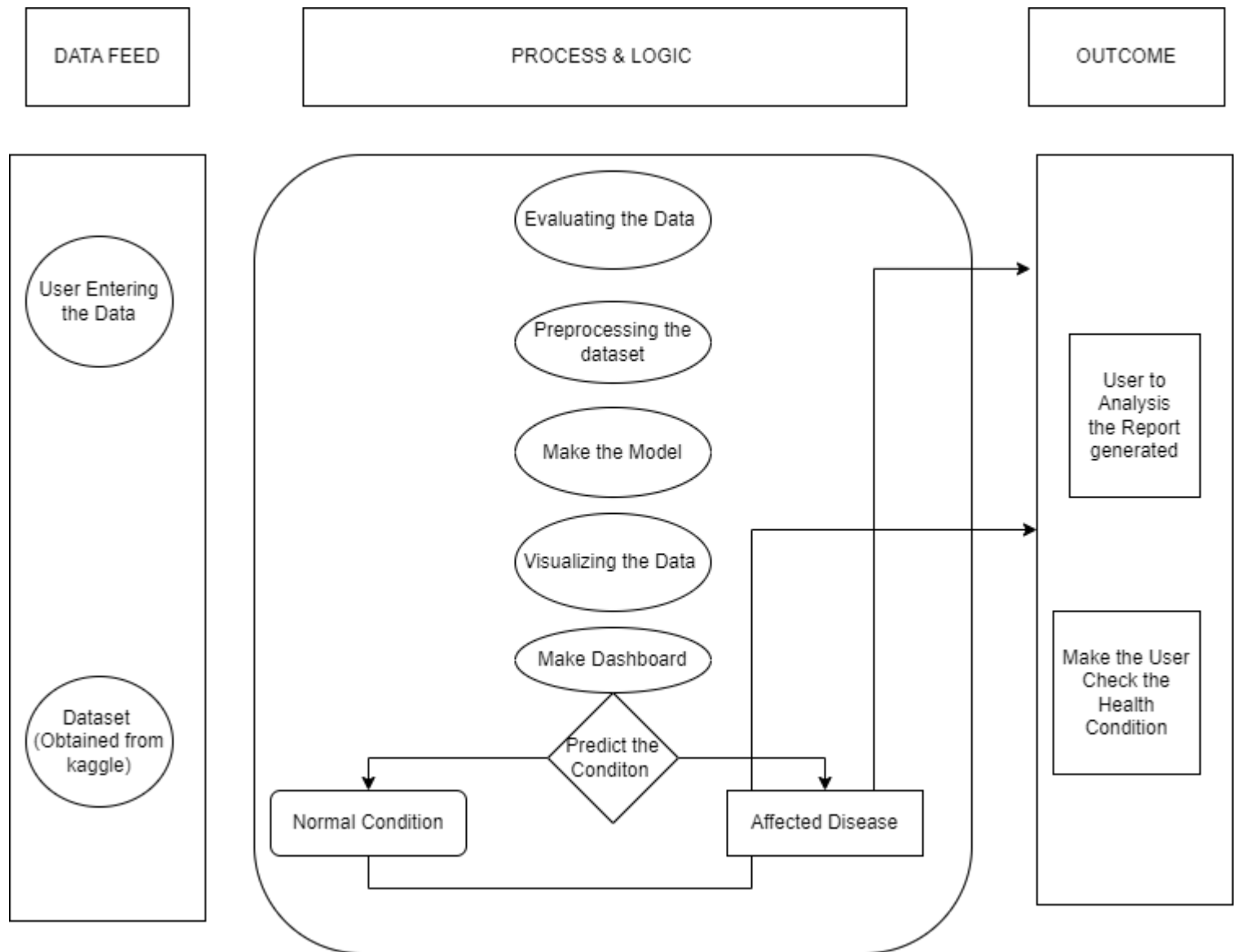
| DATA FEED | PROCESS & LOGIC | OUTCOME |

DATA FEED

PROCESS & LOGIC

OUTCOME

User Entering the Data

Dataset (Obtained from kaggle)

Evaluating the Data

Preprocessing the dataset

Make the Model

Visualizing the Data

Make Dashboard

Predict the Conditon

Normal Condition

Affected Disease

User to Analysis the Report generated

Make the User Check the Health Condition

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Cognos Analytics
4.	Database	Data Type, Configurations etc.	MySQL
5.	Cloud Database	Database Service on Cloud	IBM Cloud
6.	File Storage(If Required)	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	Purpose of External API used in the application	Sketchfab.(Download)
8.	Machine Learning Model	Purpose of Machine Learning Model	k-means, Decision Tree, Naïve Bayes,Any other Algo (if Required)*

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	IBM Cognos Analytics
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	IBM Cognos software security.
3.	Availability	Justify the availability of applications (e.g. use of load balancers, distributed servers etc.)	IBM Cognos Analytics
4.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM Cognos Analytics

References:

https://www.ibm.com/cloud/architecture

https://www.ibm.com/in-en/cloud?utm_content=SRCWW&p1=Search&p4=43700052661371387&p5=e&gclid=CjwKCAjwzY2bBhB6EiwAPpU pZkcpxixCb_rVIDLgaer8CT4naOmT7pvjR5-7ngWthJof6m3iHG1-SxoCq_QQAvD_BwE&gclsrc=aw.ds

https://www.ibm.com/in-en/products/cognos-analytics?utm_content=SRCWW&p1=Search&p4=43700056107800344&p5=e&gclid=CjwKCAj wzY2bBhB6EiwAPpUpZgURsD8nkSt_BITM2MBPGi5xaAV3QpWCeNUMFpyj9lYDDjLqFQqpgBoCiuoQAvD_BwE&gclsrc=aw.ds

https://app.diagrams.net/?src=about

https://www.javatpoint.com/