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

Date	15 October 2022
Team ID	PNT2022TMID08776
Project Name	Analytics for Hospital's Health-Care Data
Maximum Marks	4 Marks

Technical Architecture:
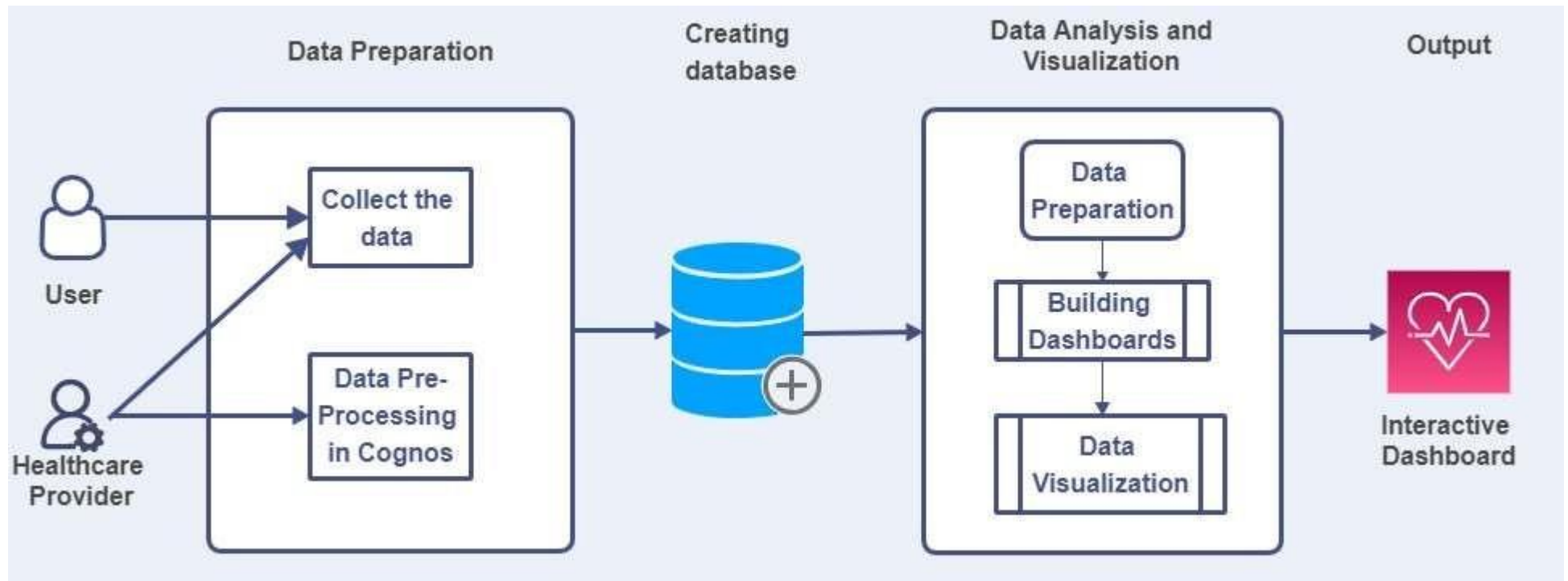
Analytics for Hospital's Health-Care Data

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Dataset	Gathering Dataset from the internet	Kaggle API
2.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
3.	Data Processing	The data from the dataset is pre-processed	IBM Cognos Analytics
4.	Database	Database Service on IBM Cloud	IBM Cloud
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Uploading Dataset	Uploading dataset to the IBM Cognos	IBM Cognos Analytics
7.	Data Visualization	The data is visualized into different forms	IBM Cognos Analytics and python
8.	Data Prediction	Prediction of the Length Of Stay (LOS)	IBM Cognos Analytics and python

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Dashboard frameworks in the form of charts, graphs and more.	IBM Cognos
2.	Scalable Architecture	Scalability 3-tier => Database, application, server	Web server – HTML, CSS Application server- Python
3.	Availability	This dashboard is available for health care providers which helps them to managing the hospital resources	IBM Cognos
4.	Performance	This dashboard can contain numerous data and provides interactive visualizing performance which helps in easy usage	IBM Cognos
5.	Storage	It is a database used to store the Data(MySQL)	DB2