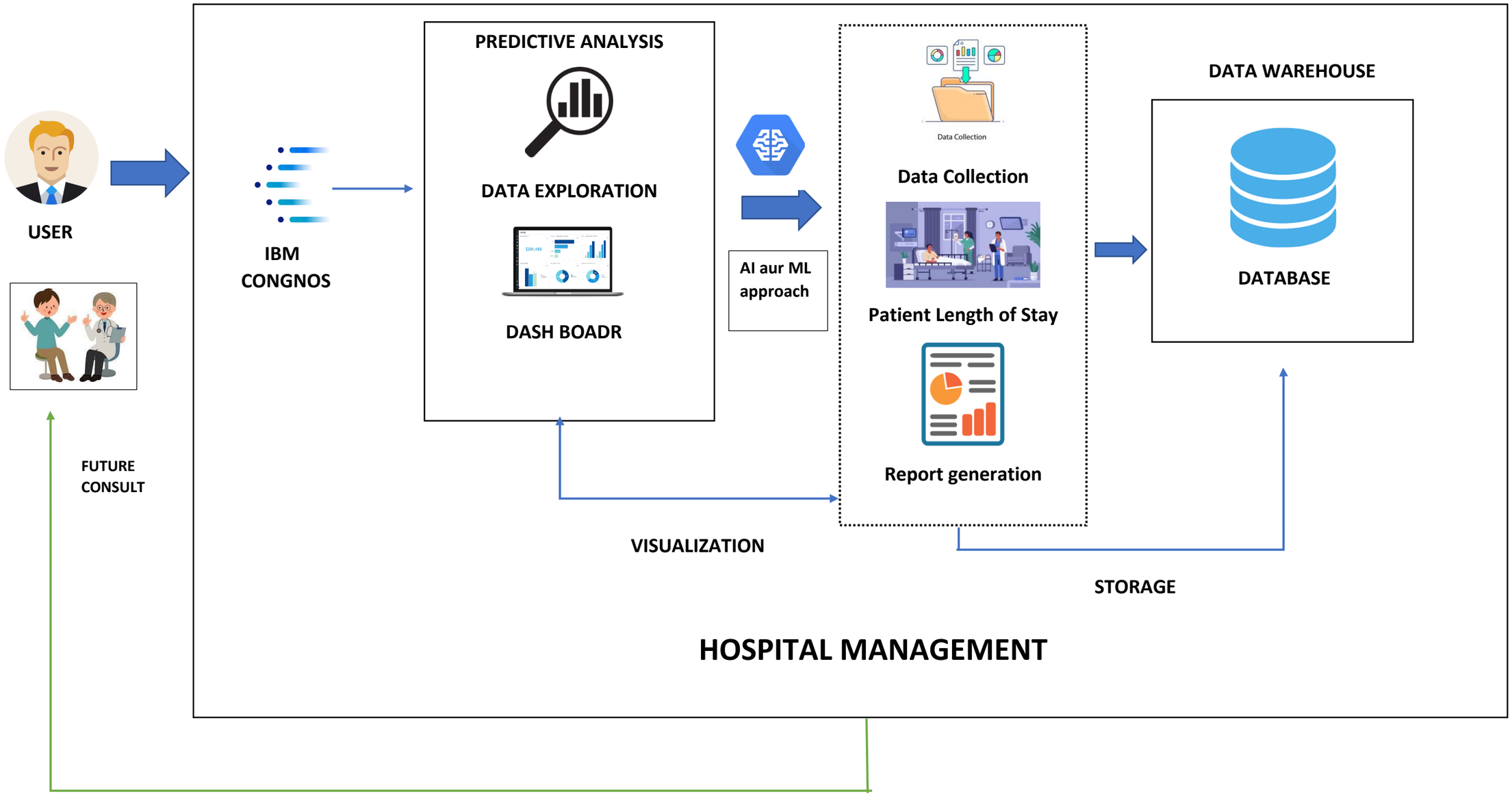
PROJECT DESIGN PHASE – II

TECHNICAL ARCHITECTURE

Date	6.10.2022
Team ID	PNT2022TMID11392
Project Name	Analytics for Hospital's Healthcare Data



COMPONENTS AND TECHNOLOGIES

S.No	Component	Description	Technology
1.	User Interface	The Users will be interacting with the site through their convenient devices	IBM cognos or IBM cloud
2.	Application Logic-1	The Collecting the data	CSV File
3.	Application Logic-2	Exploring and visualizing the data	IBM Cognos analytics
4.	Application Logig-3	Data model on the available data	AI or ML
5.	Cloud Database	Storing the patients data in cloud environment	IBM cloud
6.	Machine Learning Model	Predictive Analysis on the data model	Python, IBM Cognos
7.	Infrastructure Service	Cloud environment for analytics	IBM Cloud and Cognos Analytics

Application Characteristics

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Pandas and Numpy	Python
2.	Security Implementations	Admin and User Authorization or Management Authorization.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Availability	The data exploration and visualization is a timely work hence the system should be more available	Cognos analytics
4.	Performance	The accurate calculation of data is the well-known performance of this system	Predictive Analytics using AI or ML Model