TECHNICAL ARCHITECTURE:

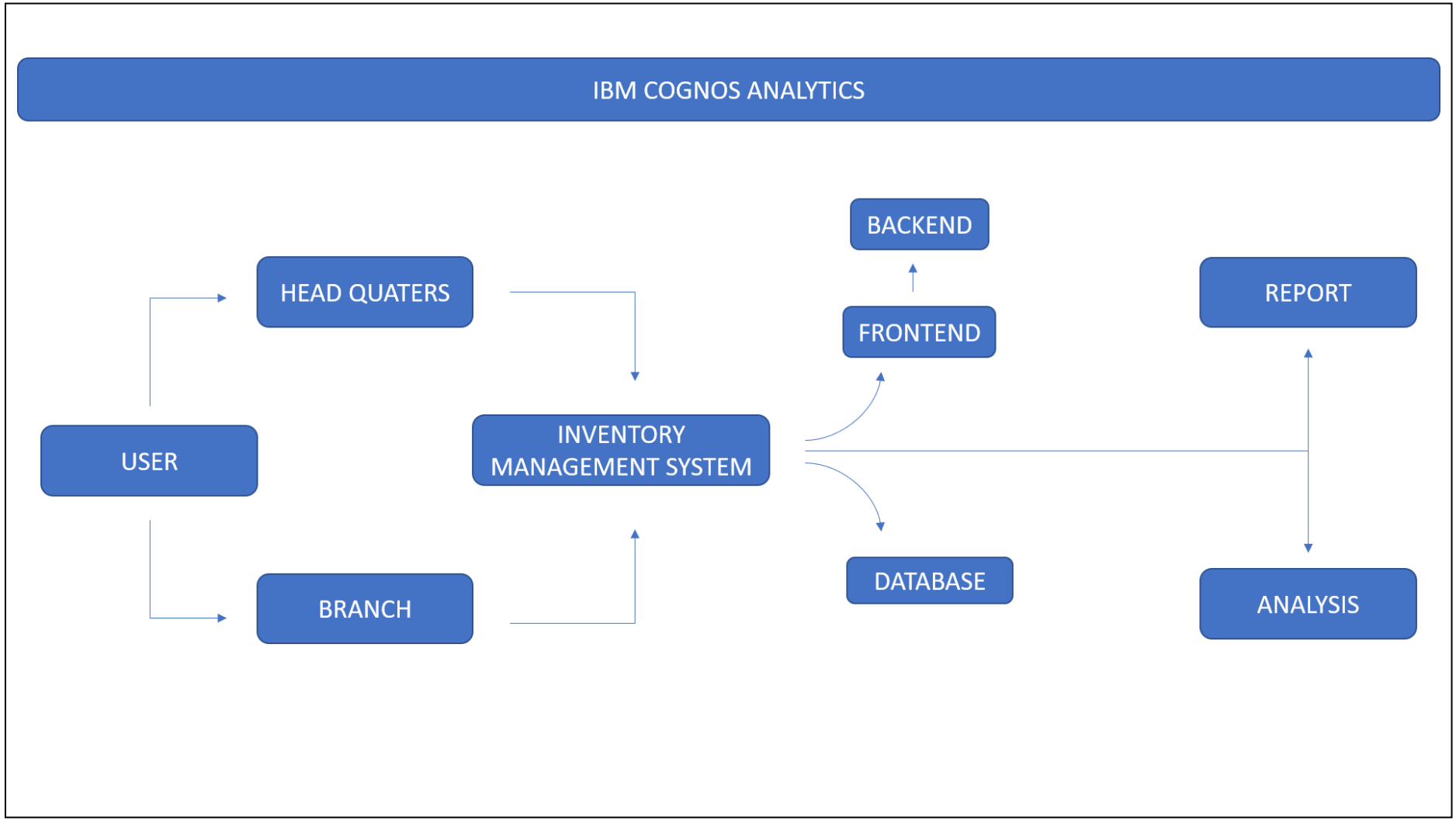

TABLE – 1

COMPONENTS & TECHNOLOGIES:

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface	The user interacts with application using web UI	HTML,CSS,JS
2.	Data processing	The data from the dataset is pre-processed	IBM, Cognos Analytics
3.	Cloud Dataset	The clean dataset is stored on IBM cloud	IBM Cloud
4.	Data visualization	The data is visualized into different forms	IBM Cognos Analytics, Python
5.	Prediction	These Algorithm techniques are used to predict the proper way to make the stock in store.	ML algorithms-Logistic Regression, Linear Regression, Random Forest, ABC Techniques

TABLE – 2

APPLICATION CHARACTERISTICS:

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	Open-Source Frameworks	Open-Source Frameworks Used.	IBM Cognos Analytics, Python
2.	Security Implementations	Request Authentication using Encryptions.	Encryptions
3.	Scalable Architecture	Scalability consists of 3-tiers.	HTML, CSS, JS, Python, IBM cloud
4.	Availability	The application is available for cloud users.	IBM Cloud Hosting
5.	Performance	The user can know how to maintain the inventory to increase profits.	ML algorithms