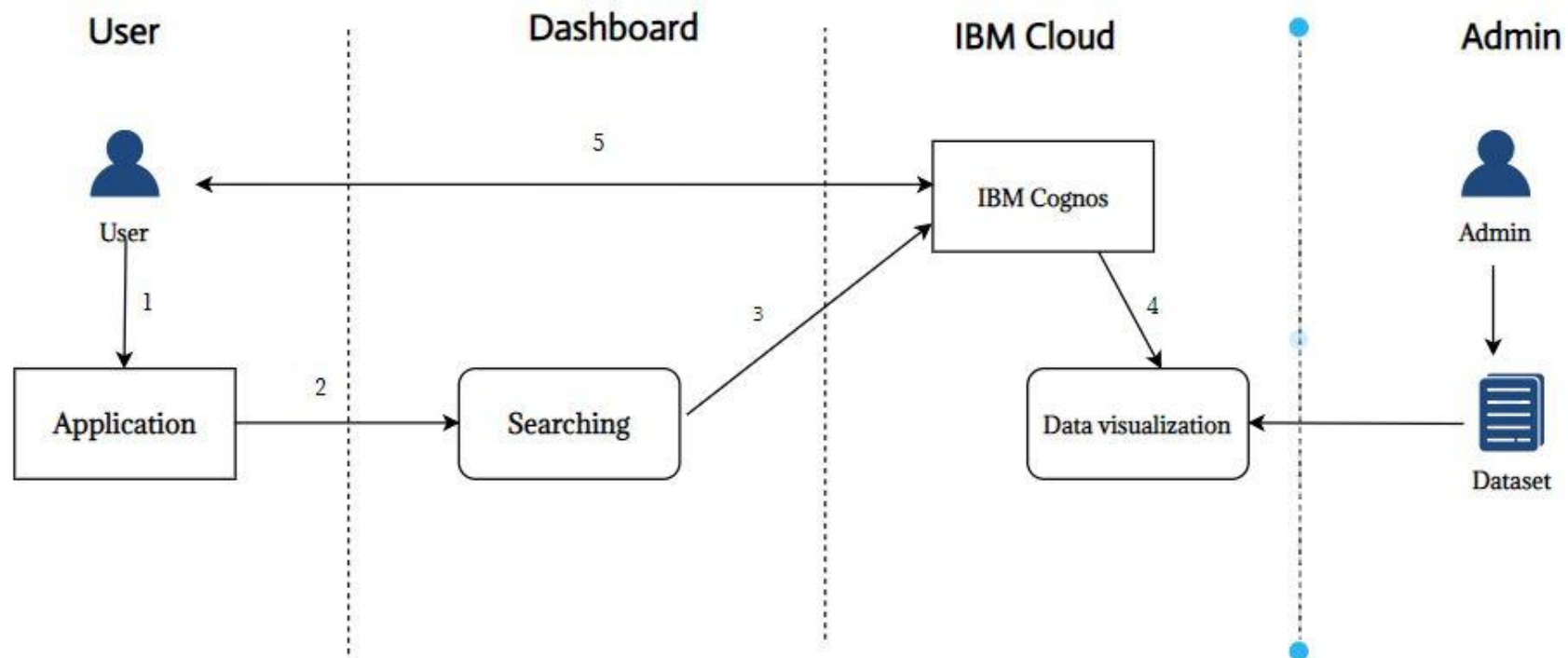


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	17 October 2022
Team ID	PNT2022TMID42755
Project Name	Project – Global Sales Data Analysis
Maximum Marks	4 Marks

**Technical Architecture:**



**Guidelines:**

- Include all the processes (As an application logic / Technology Block)
- Provide infrastructural demarcation (Local / Cloud)
- Indicate external interfaces (third party API's etc.)
- Indicate Data Storage components / services
- Indicate interface to machine learning models (if applicable)

**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	How the user interacts with the application e.g. Web UI, Mobile App .	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 Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	cognos Database	Data visualization on cognos	IBM cognos.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Machine Learning Model	Purpose of Machine Learning Model	To analysis the sales and marketing data level
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The better platform or dashboard for data visualization and predication	Python and cognos
2.	Security Implementations	The system administrator can only permit to access and modify the data in the system	Encryption and information verification
3.	Scalable Architecture	The more users are able to use the dashboard at the same time and the model can successfully predict the future sales.	Front end languages , database and backend process
4.	Availability	If the application can contain the histrological sales and marketing data and the system is accessible to a user at a time. While it can be expressed as an expected percentage of successful requests, you may also define it as a percentage of time the system is accessible for operation during some time period.	Encryption,machine learning Algorithm and the natural language process.
5.	Performance	The performance of the dashboard is flexible to every user. The front-page load time must be no more than 2 seconds for users that access the websites.	Content delivery network