

Project Planning Phase II

Technology Stack

Date	17 October 2023
Team ID	NM2023TMID05070
Project Name	Analysing The Performance & Efficiency Of The Radisson Hotels Using Data Visualization Techniques Using IBM COGNOS
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table.

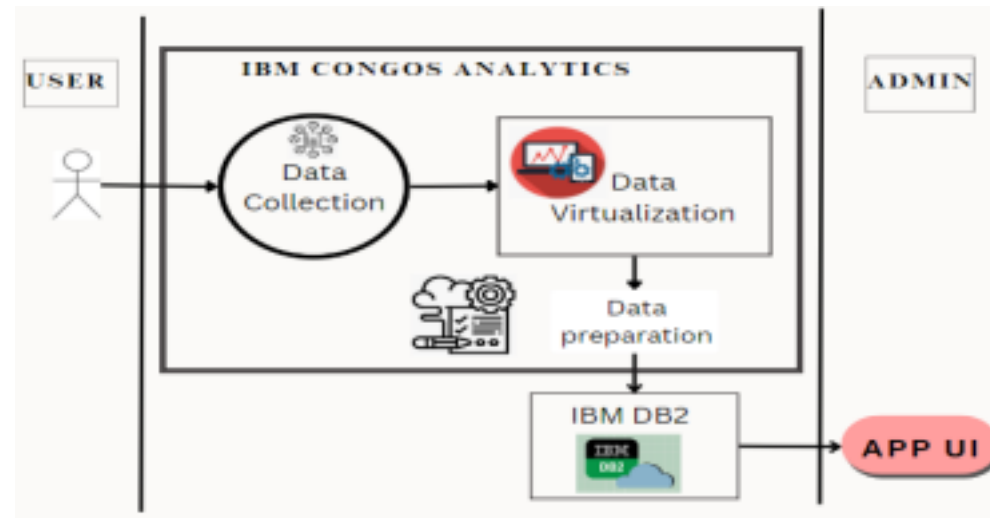


Table-1: Components & Technologies:

S.N o	Component	Description	Technology
1.	User Interface	How the user interacts with the 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.	Application Logic-3	Logic for a process in the application	IBM Cognos Analytics
5.	Database	Data Type, Configurations etc.	Excel

6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Others or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	ML Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
10.	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 List the open-source frameworks used	Technology of Open Source framework
2.	Security Implementations List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.

3.	Scalable Architecture Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability Justify the availability of applications (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used