

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

Date	13 May 2023
Team ID	NM2023TMID21199
Project Name	Data-Driven insights on Olympic Sports Participation and Performance

Technical Architecture:

Below Is the architectural diagram for how analysis of glass door jobs data is performed.

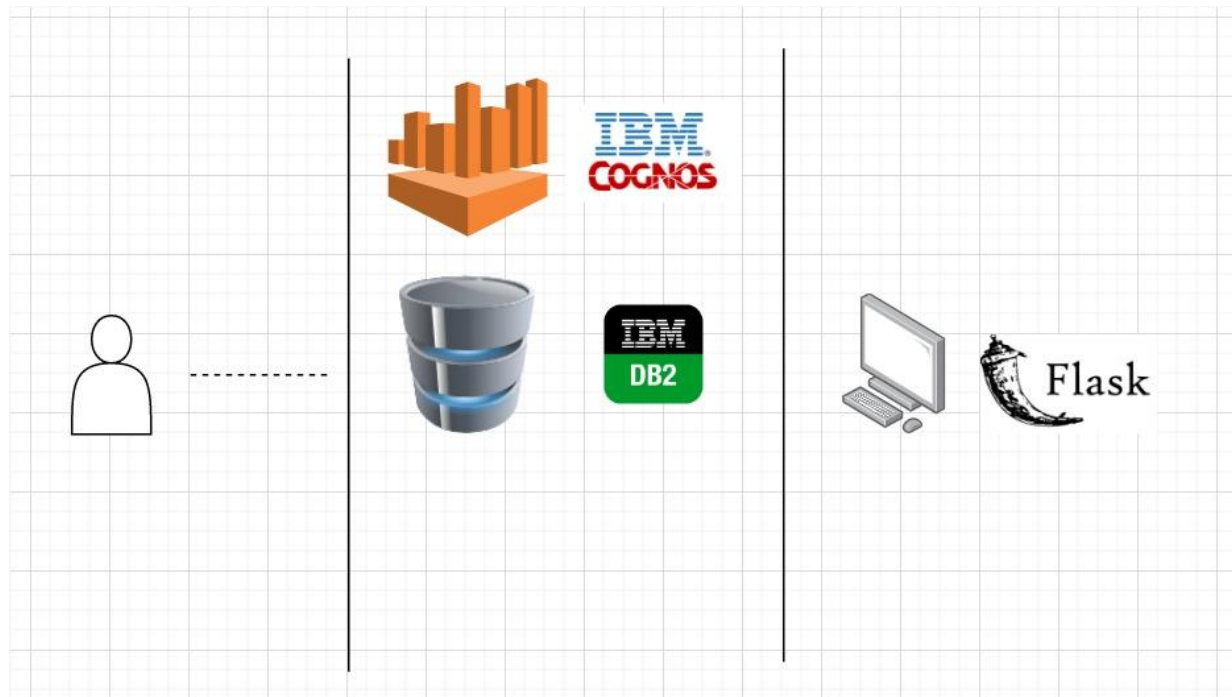


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript etc.
2.	Application Logic-1	Displaying data from IBM Cognos	Python
3.	Cloud Database	Database Service on Cloud	IBM DB2
4.	Machine Learning Model	To perform data analytics	IBM Cognos
5.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Cloud Server Configuration : AWS	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Frameworks that make it possible for viewing data analysed	Flask, rest-API
2.	Security Implementations	We use Flask security to impose security	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Cloud deployable	AWS
4.	Availability	Available even at times of heavy traffic	Load balancers
5.	Performance	How meaningful the observed analysis is	Python