

**Project Design Phase-I**  
**Solution Architecture**

Date	19 September 2022
Team ID	D75F22880B8DC50BB9447C3F
Project Name	Analytic tool for placements
Maximum Marks	4 Marks

**Solution Architecture:**

User

Data Sources:

Identify data sources, such as resumes, job postings, student records, and employer information.

Data Ingestion:

Implement data ingestion pipelines to collect and update data from various sources.

Data Storage:

Choose a data storage solution, like databases or data lakes, to store structured and unstructured data.

Data Processing:

Develop data processing pipelines for cleaning, transforming, and aggregating data.

Analytics Engine:

Implement the analytical engine for running queries, data analysis, and generating insights.

User Interface:

Create a user-friendly dashboard or web application for users to interact with the tool.

Machine Learning:

Incorporate machine learning models for predictive analytics, such as matching candidates to job postings.

Security:

Ensure data security and access control to protect sensitive information.

Scalability:

Design the architecture to scale horizontally and accommodate future growth.

Integration:

Integrate with external systems, like HR software or university databases

### **SOLUTION ARCHITECTURE:**



