Project Design Phase-II

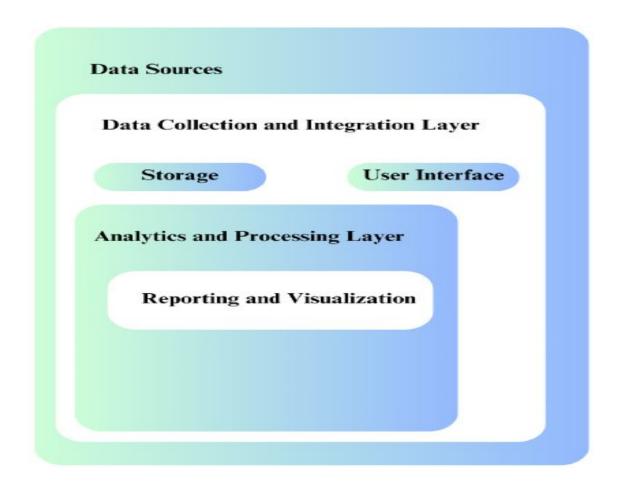## Solution Architecture

Team ID: NM2023TMID07142

Project Name Project - "Analytics Tool For Placements"

1.1 Architecture Overview

The architecture of our "Analytics Tool For Placements" involves a combination of IBM Cognos Analytics, web development, and data integration technologies. The primary components of the solution architecture include:

- **IBM Cognos Analytics:** This serves as the core platform for data analysis, visualization, and dashboard creation. It hosts the centralized Placement Data Repository and enables the creation of visualizations and stories.
- **Web Interface:** The website acts as the front end for users to access placement data and insights. It integrates with IBM Cognos Analytics through iframe technology to provide seamless access to dashboards, stories, and reports.
- **Database:** A database is used to store user account information, authentication data, and other website-related data.

1.2 Data Flow in Solution Architecture

- **Data Ingestion:** Placement data is ingested into IBM Cognos Analytics, where it undergoes data cleansing and shaping processes.
- **Data Analysis and Visualization:** Users interact with the system through the web interface, creating data queries. The system processes these queries, retrieves data from the Placement Data Repository, and generates visualizations.
- **Dashboard and Story Creation:** The system enables the creation of interactive dashboards and storytelling with data in IBM Cognos Analytics.
- **Web Integration:** The web interface integrates the dashboard, stories, and reports from IBM Cognos Analytics using iframe technology, providing users with easy access to placement insights.

The proposed solution architecture aims to provide a seamless user experience while ensuring data security, performance, and accessibility for all stakeholders.