Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID00619
Project Name	Project - Corporate Employee Attrition Analytics
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Necessary Libraries	Import necessary libraries such as Pandas, Numpy, Seaborn, Matplotlib, Sklearn etc.
FR-2	Loading and Storing data	Load the data on Google Colab Store the data using Pandas
FR-3	Preparing the data	Count the empty values in each column check for any null or missing values
FR-4	Visualization of number of employees stayed and number of employees left	Visualize based on age ,monthly income, department, job role, business travel, education, marital status, salary hike etc.
FR-5	Training the data	Split the dataset into Training set and Testing set Train the data using necessary algorithm
FR-6	Testing the data	Test the data using necessary algorithm
FR-7	Displaying attrition factors	Visualize the factors affecting the attrition

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	HR Manager can easily identify the factors causing attrition of employees.
NFR-2	**Security**	Google Colab offers many security features including SAML SSO, robust authentication, and role-based access controls. So the project's dataset stored in Google Colab is secure.
NFR-3	**Reliability**	Accuracy of this project is High, so it is highly reliable.
NFR-4	**Performance**	This project consumes less memory and executes faster with high accuracy.
NFR-5	**Availability**	Project stored in Google Colab can be accessed anytime and anywhere.
NFR-6	**Scalability**	This system can perform well with large datasets.