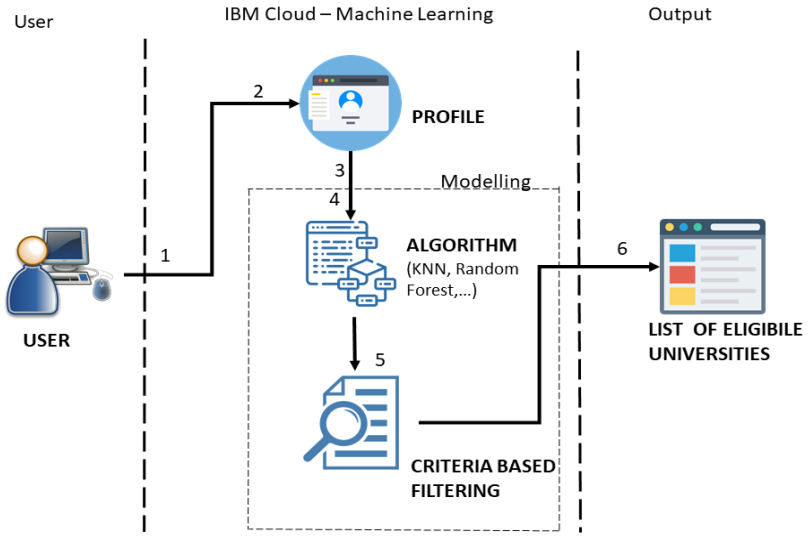
Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID30140
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate interface to machine learning models
4. Include necessary machine learning algorithms
5. Indicate Data Storage components / services
6. Provide the list of all eligible universities along with its description

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Users will able to access our project through website	HTML, CSS, JavaScript etc.
2.	Application Logic-1	The user profile(interested department, location etc.) will be taken in account	Python (Jupyter)
3.	Application Logic-2	For the given information the model will predict the output	Python, IBM Watson Assistant
4.	Database	Names of Universities, its description, location and ratings	Imported through pandas
5.	Machine Learning Model	To predict the accurate output	KNN, Random Forest, Decision Tree, etc.
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: i3 – 8th Gen Cloud Server Configuration : i9 – 13th Gen	Local, Cloud etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python for Backend purpose and flask is imported for front end purpose	Python(Flask)
2.	Security Implementations	The user profile will be secure	Encryptions, IAM Controls etc.
3.	Scalable Architecture	The accurate list of eligible universities name and its description will be provided	Random Forest ML Algorithm
4.	Availability	Anyone and in anytime they can visit our website	IBM Load Balancer
5.	Performance	The user can have a knowledge of their eligibility for applying Universities through our website	Random Forest ML Algorithm