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

Date	15 October 2022
Team ID	PNT2022TMID30201
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

Technical Architecture:

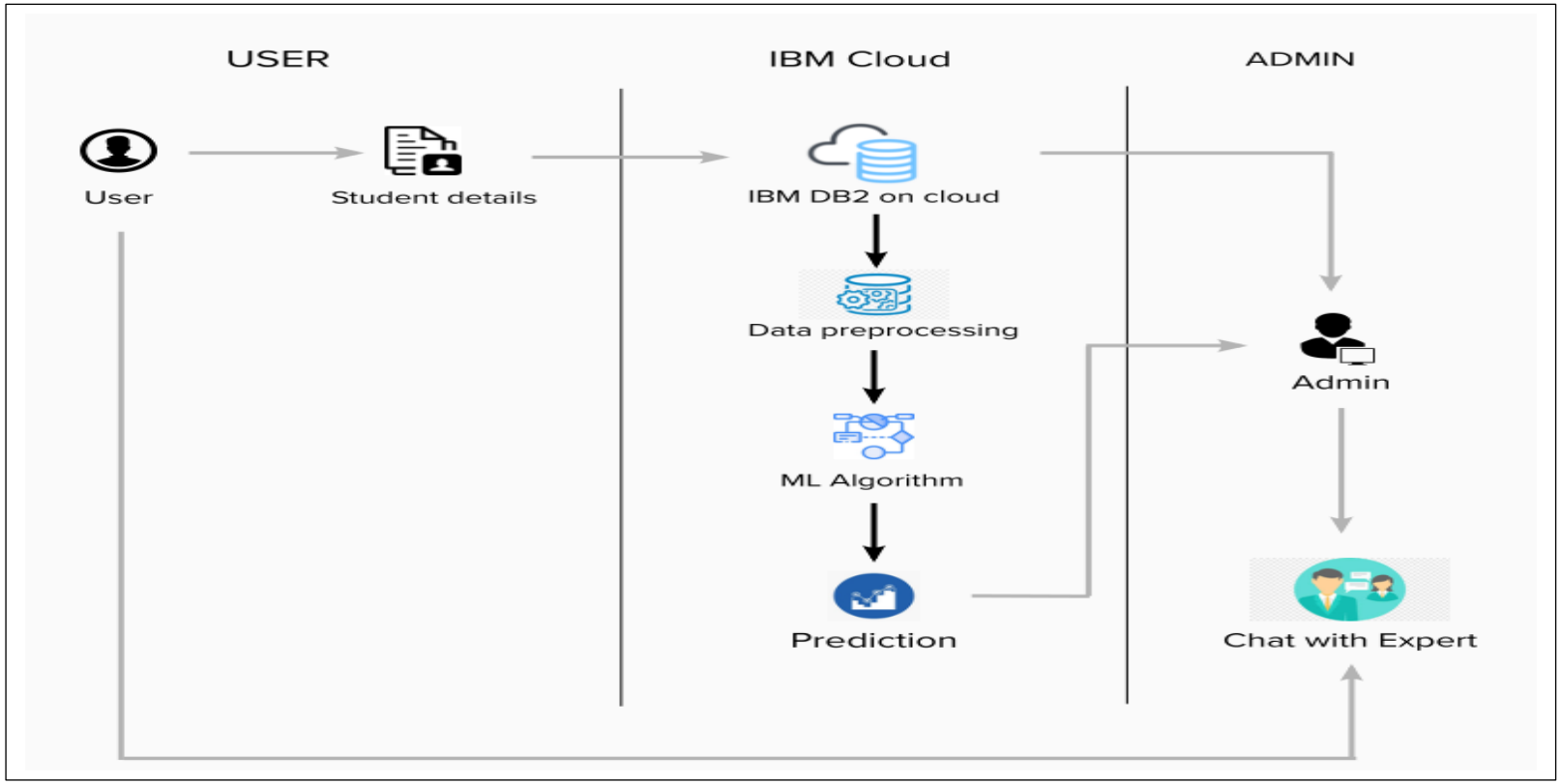

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with application using Web UI.	HTML, CSS, JavaScript, Angular Js / React Js etc.
2.	Database	The dataset contains student details that can be used for training the model to predict the eligibility.	Python libraries like numpy, pandas, sklearn etc.
3.	Cloud Database	The dataset is stored in the IBM cloud.	IBM Cloud
4.	Machine Learning Algorithm	The machine learning algorithms are used to predict the student eligibility.	Regression or XGBoost
5.	Chat with expert	Student can get clarity by using chat with expert	Python

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open-source frameworks used	Python Flask, Python
2.	Security Implementations	Two-step verification for students	Encryptions
3.	Scalable Architecture	Scalability of architecture	Web server-HTML, CSS, Java script Application server-Python Flask-Database server-IBM Cloud
4.	Availability	The user can access through cloud	IBM Cloud hosting
5.	Performance	Multiple users can use this web application	IBM Load balance