PROJECT DESIGN PHASE-II
TECHNOLOGY ARCHITECTURE & TECHNOLOGY STACK

Date	22 October 2022
Team ID	PNT2022TMID12080
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

TECHNICAL ARCHITECTURE:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

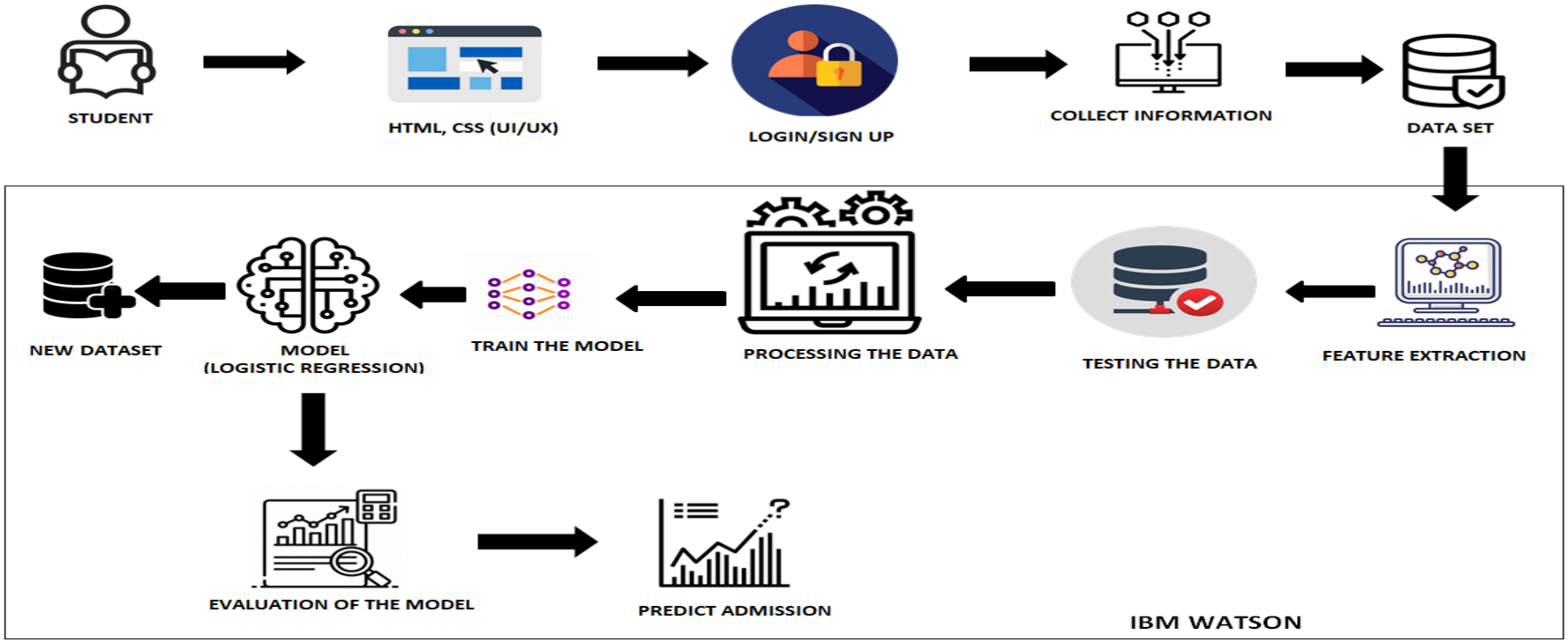

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The Front –end part of the application	HTML/CSS
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson
4.	Libraries	Import necessary libraries	Numpy, Pandas, Matplotlib, Seaborn, Pickle
5.	Database	Integer datatype, configuration	MySql
6.	File Storage	File storage requirements	Local File System
7.	Machine Learning Model	Purpose of the machine learning model	Model for admission prediction
8.	Training and testing the data	Purpose of training and testing the data	Logistic Regression Model
9.	Accuracy	Presents the accuracy of the trained and tested data	Mean Square Error(MSE), Root mean Square Error(RMSE)
10.	Infrastructure	Application deployment on the local system	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask Framework
2.	Security Implementations	Student's information has been stored securely	Encryptions
3.	Scalable Architecture	Scalable system that is able to increase to increase its performance, resources and functionalities	Logistic Regression
4.	Availability	The web application is available 24/7 and can be accessed at any time and at any place	IBM Load Balancer
5.	Performance	The logistic regression helps to increase the performance in an efficient way	It can handle about 100 requests per second