Technical Architecture

Date	9 November 2022
Team ID	PNT2022TMID07067
Project Name	University Admit Eligibility Predictor
Maximum Marks	4 Marks

System Architecture Diagram:

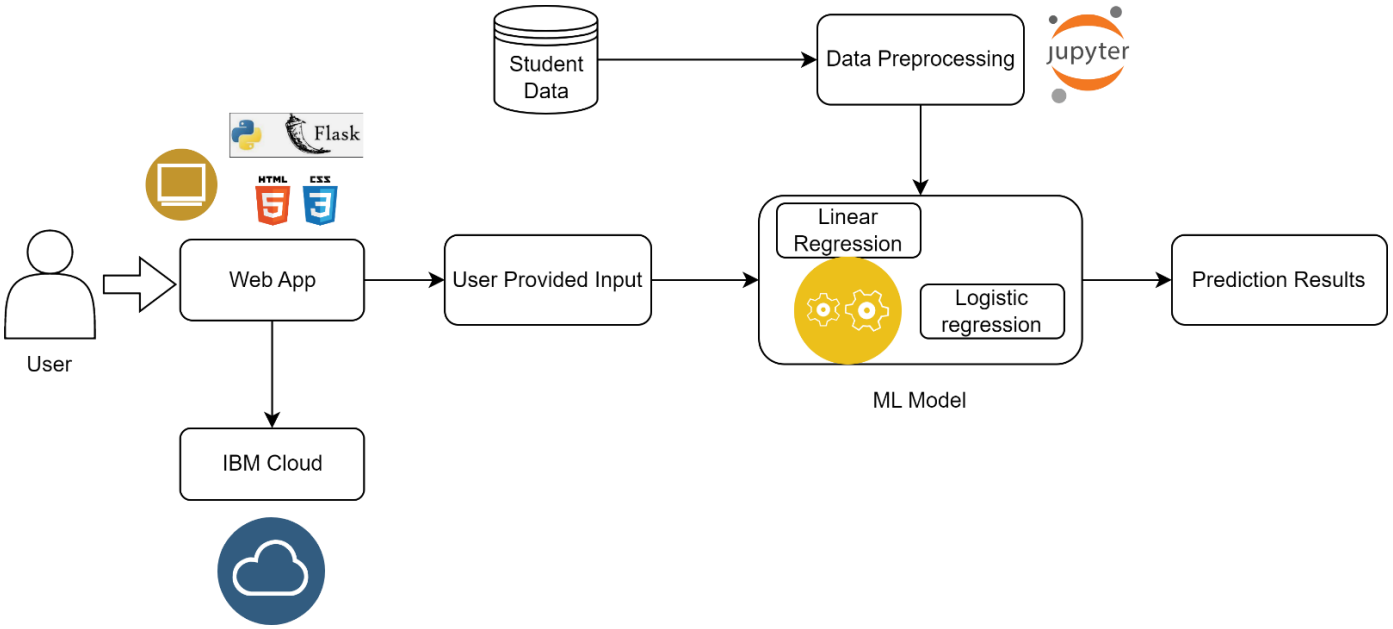

Table-1: Components & Technologies

S.No	Component	Description	Technology
1.	User Interface	The Front-end part of the application foraccepting user data.	Html, CSS
2.	Dataset pre-processing	Removing inconsistencies in the dataset.	Pandas, NumPy, Python
3.	Application Logic	The core business logic of the application.	Python
4.	Database	For storing student details.	MySQL, IBM DB2, IBM Cloud
5.	ML Model	Models to be used for prediction – LogisticRegression and linear regression.	Scikit-Learn
6.	Infrastructure	Cloud Server Configuration for hosting the web app.	IBM Cloud Hosting

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask, jupyter notebook
2.	Security Implementations	Authenticating the users before making predictions.	SHA-256, Encryptions
3.	Availability	Since the web app is hosted on cloud, it can be accessed from any device, anywhere.	IBM cloud hosting, IBM load balancer