# Project Design Phase-II

## Technology Architecture

| DATE | 12 November 2022 |
|---|---|
| TEAM ID | PNT2022TMID13278 |
| PROJECT TITLE | University Admit Eligibility Predictor |
| MAXIMUM MARK | 4 Marks |

**Technical Architecture:**
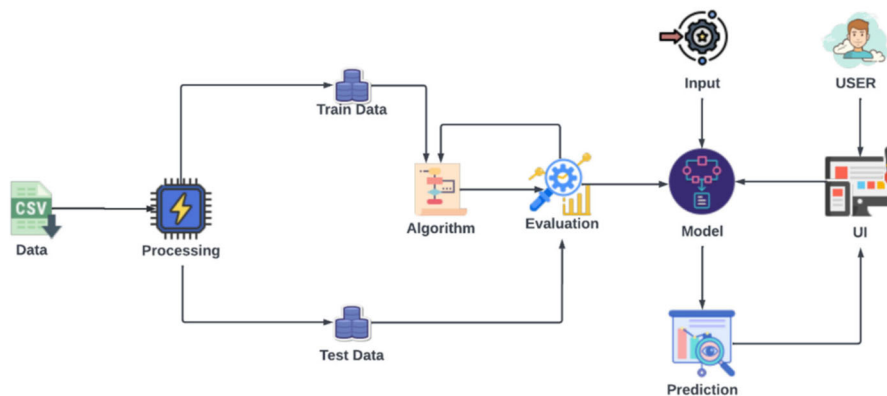


## Table 1: Components & Technology

| 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 | Application Logic-3 | Logic for a process in the application | IBM Watson |
| 5 | Database | Data type ,Configuration | MySQL |
| 6 | Cloud Database | Database services on cloud | IBM DB2, IBM Cloud, etc. |
| 7 | Libraries | Import Libraries into data | NumPy, Pandas, Seaborn, Matplotlib |
| 8 | File Storage | File storage requirements | Local File System |
| 9 | Machine Learning Model | Purpose of Machine Learning Model | Admission Prediction Model |
| 10 | Training and testing data | Purpose of training and testing data | Logistic Regression algorithm |
| 11 | Accuracy | Accuracy of the tested and trained data | Root Mean Squared Logarithmic Error (RMSLE), Mean Squared Error (MSE) |
| 12 | Infrastructure | Cloud Local Server Configuration | Local |

## Table-2: Application Characteristics:

| S. No: | Characteristics | Description | Technologies Used |
|---|---|---|---|
| 1. | Open-Source Frameworks | List the open-source frameworks used | Flask Framework |
| 2. | Security Implementations | The user profile has been stored in a secured way | Encryptions |
| 3. | Scalable Architecture | Many computations can be done in a time saving and effective way | Logistic Regression |
| 4. | Availability | Our web application is available at any time and at any place | IBM Load Balancer |
| 5. | Performance | As logistic regression is applied to develop the performance will be more effective | Logistic Regression |