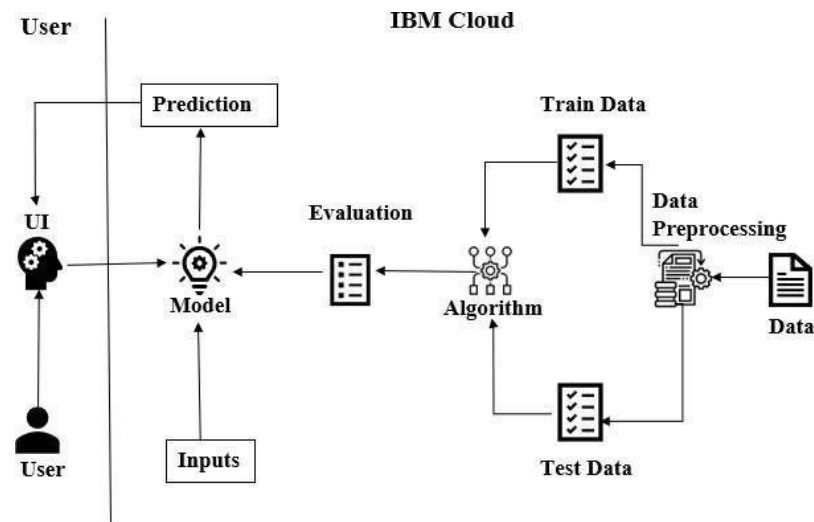


Project Design Phase-II Technology Stack (Architecture & Stack)

| | |
|---------------|---|
| Date | 28 October 2022 |
| Team ID | PNT2022TMID10172 |
| Project Name | Project – Smart lender applicant credibility prediction for loan approval |
| Maximum Marks | 4 Marks |

Technical Architecture:

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



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

| S.No | Component | Description | Technology |
|------|---------------------------------------|---|---|
| 1. | User Interface | User interact with our application through web User Interface. | HTML, CSS and Python flask. |
| 2. | Application Logic-1-Login. | When the user click on the login button , he/she is directed to login page, if they are registered already. | HTML ,CSS, Python flask. |
| 3. | Application Logic-Registration | When the user click on the Register button , he/she is directed to Register page for further process. | HTML,CSS, Python flask. |
| 4. | Application Logic-Credibility details | After Logged in , when the user click on the credibility details form button,he/she directed to the form page to enter the details of applicant for prediction. | Front end- HTML ,CSS , MySQL, Pythonflask Back end-Python |
| 5. | Database | Data type - String ,Numeric. | MySQL. |
| 6. | Cloud Database | Database Service on Cloud | IBM. |
| 7. | File Storage | File storage requirements | NIL |
| 8. | External API-1 | Purpose of External API used in the application | NIL |
| 9. | External API-2 | Purpose of External API used in the application | Aadhar API |
| 10. | Machine Learning Model | Get the data from the user and predict the data with tested and trained dataset models | Data Recognition Model, etc. |
| 11. | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration : | NIL |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|-------------|--------------------------|--|--------------------------|
| 1. | Open-Source Frameworks | International Business Machines. | Cloud. |
| 2. | Security Implementations | Access permission for login page using CAPTCHA | Encryptions. |
| 3. | Scalable Architecture | The key of Three tier architecture is improving scalability. | Three Tier architecture. |
| 4. | Availability | Load balancer or ADC is the key component that ensures high availability by sending request. | Load balancer. |
| 5. | Performance | The system should be able to handle large number of users at the time | Load balancer. |