

Project Design Phase-II
Technology Stack

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| Date | 11-11-2022 |
| Team ID | PNT2022TMID09388 |
| Project Name | Car Resale Value Prediction |

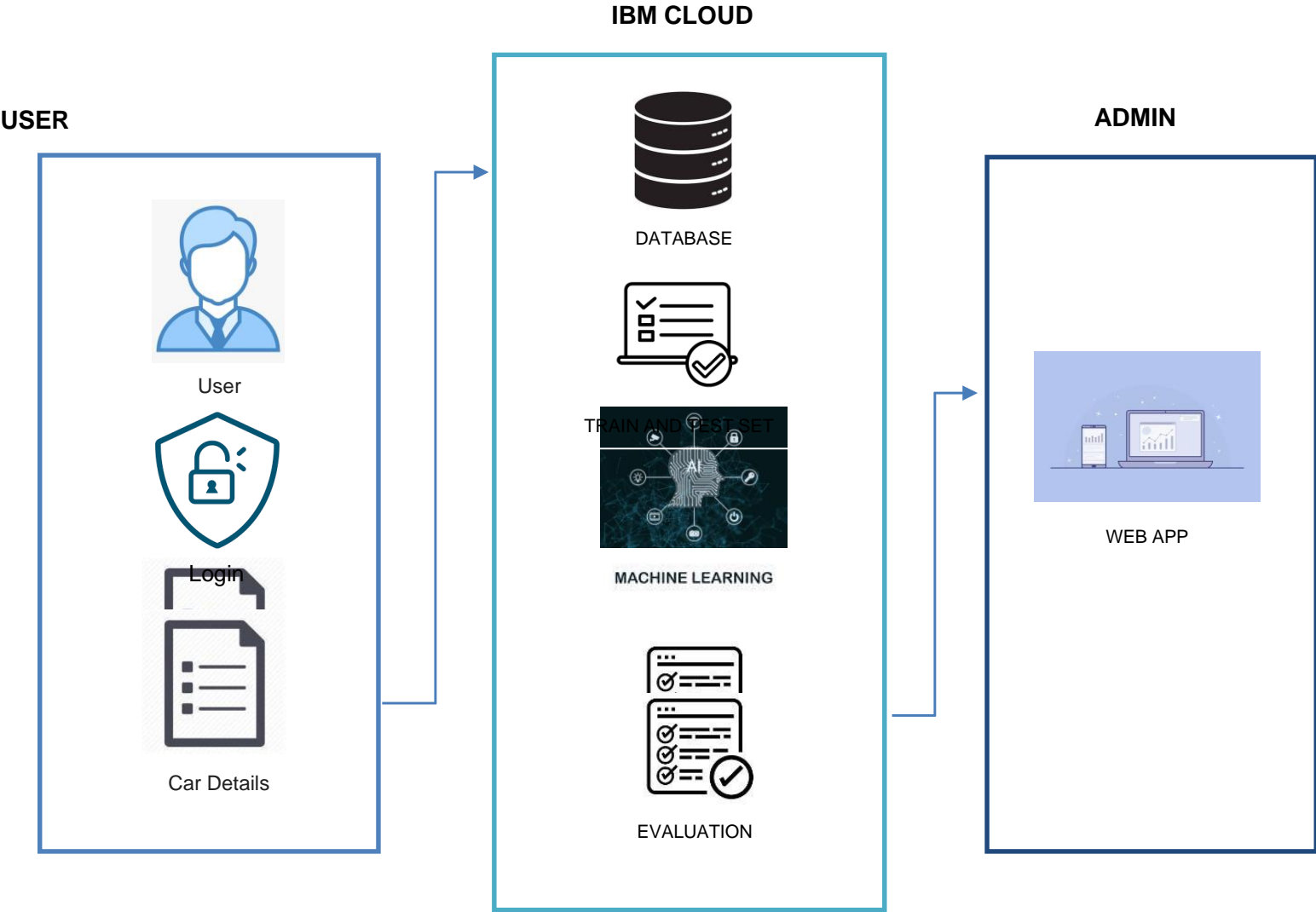


Table-1: Components & Technologies:

| S.No | Component | Description | Technology |
|------|------------------------|------------------------------------|--------------------------|
| 1. | User Interface | A website where the user interacts | HTML ,CSS, Python, Flask |
| 2. | Data Pre-process | Pre-processing of the dataset | Pandas, Numpy |
| 3. | Prediction | Resale value Prediction | Machine Learning Model |
| 4. | Cloud Database | Database Service on Cloud | IBM Cloud |
| 5. | Machine Learning Model | ML model for predicting prices | Regression Model |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|------|--------------------------|---|---------------------------------|
| 1. | Open-Source Frameworks | open-source frameworks used for development | Python, Flask, Python Libraries |
| 2. | Security Implementations | User Authentication | SHA-256 Encryption |
| 3. | Scalable Architecture | The 3-tier architecture (Web, Application, Database) is scalable. | IBM Cloud |
| 4. | Availability | Application made available even under heavy load | IBM Cloud - cloud hosting |
| 5. | Performance | Able to handle multiple requests | IBM Cloud - load balancers |