Date	19 September 2022
Team ID	PNT2022TMID04349
Project Name	Project - Car Resale value Prediction
Maximum Marks	4 Marks

Solution Architecture Diagram:

```
                        ┌─────────┐
                        │  START  │
                        └────┬────┘
                             ▼
                  ┌──────────────────────┐
                  │   DATA COLLECTION     │
                  └──────────┬───────────┘
                             ▼
                  ┌──────────────────────┐
                  │  DATA PREPROCESSING   │
                  └──────────┬───────────┘
                             ▼
              ┌─────────────────────────────┐
              │    SPLITTING DATA INTO      │
              │    DEPENDENT AND            │
              │    INDEPENDENT VARIABLES    │
              └─────────────────────────────┘

        ┌─────────────────┐           ┌─────────────────┐
        │  TRAINING DATA  │           │  TESTING DATA   │
        └─────────────────┘           └─────────────────┘

     ┌──────────────────────┐
     │   TRAINING MODEL     │
     │   WITH REGRESSION    │
     │   ALGORITHMS         │
     └──────────────────────┘

              ┌─────────────────────────┐
              │    EVALUATING AND       │
              │    CHOOSING BEST MODEL  │
              └─────────────────────────┘

              ┌─────────────────────────┐
              │   INTEGRATING MODEL     │
              │   WITH AN USER INTERFACE│
              │   LIKE WEBSITE          │
              └─────────────────────────┘

                  ┌─────────┐
                  │  INPUT  │
                  └─────────┘
     ┌──────────┐              ┌──────────┐
     │   USER   │              │ WEBSITE  │
     └──────────┘              └──────────┘
                  ┌─────────┐
                  │ OUTPUT  │
                  └─────────┘

                        ┌─────────┐
                        │   END   │
                        └─────────┘
```
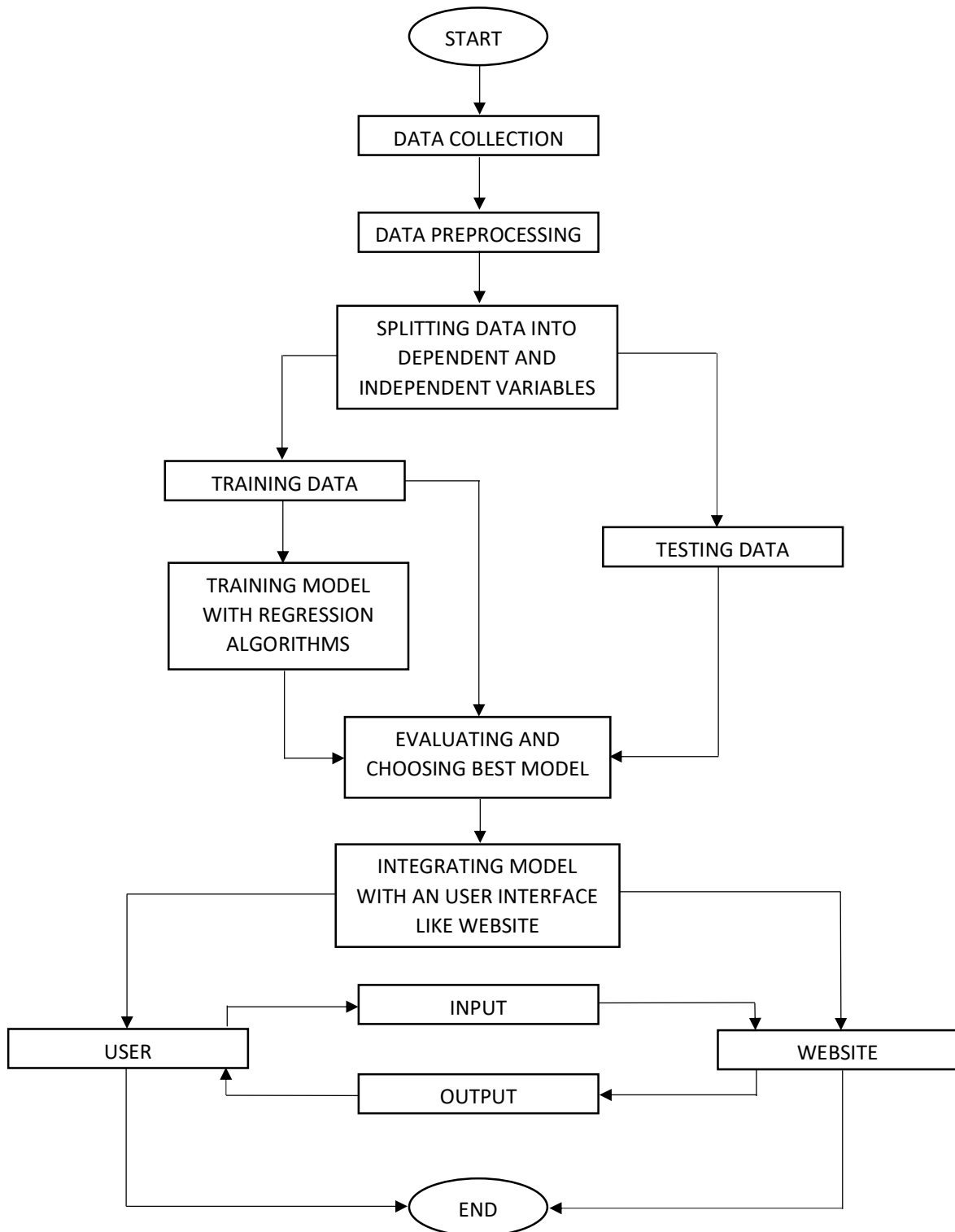
Solution Architecture:

- Collecting the datasets consisting of used cars features and their prices.
- Data Pre-processing – Handling the missing data and removing the noisy data.
- Feature selection – Removing the unnecessary attributes and using only important features.
- Create a model using regression algorithms.
- Train the model using training and testing data.
- Evaluate and find the best model.
- Deploy the model as an application with good UI.
- Give the input data and predict the result.