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

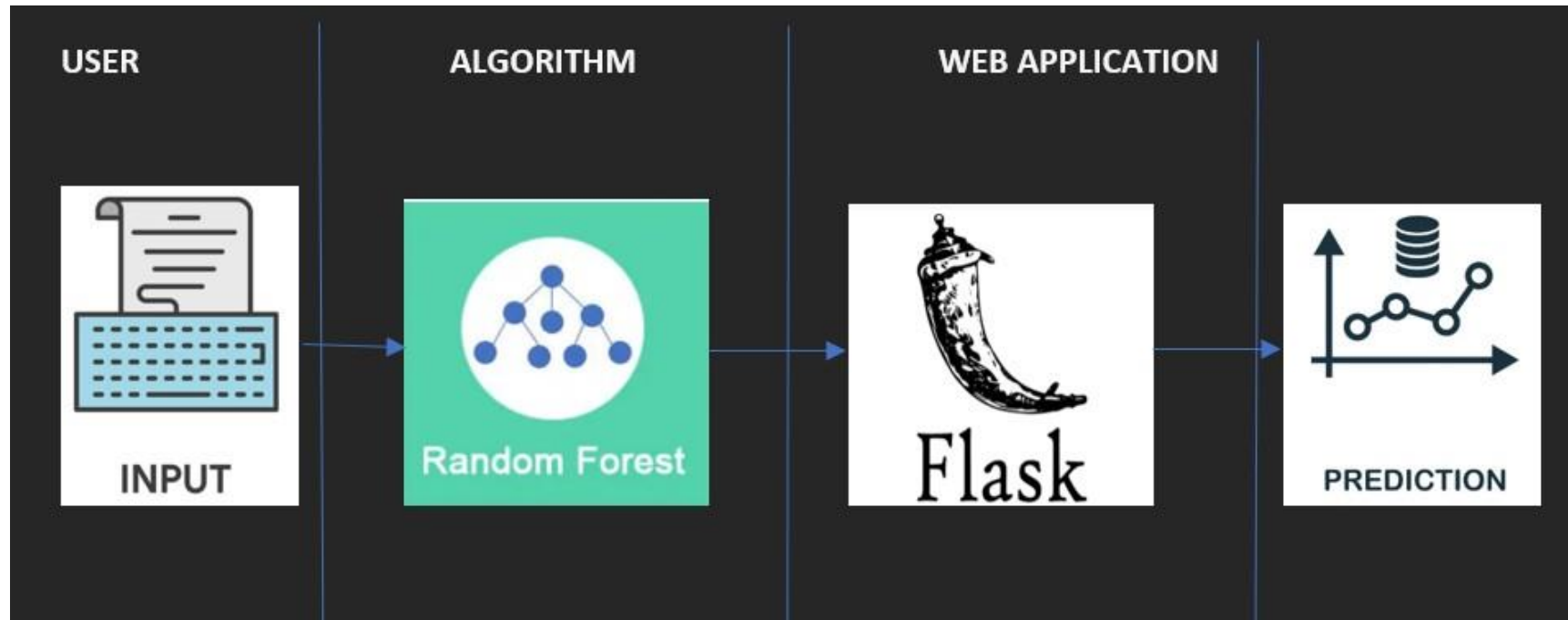| Date	24 October 2022
Team Members	917719C051, 917719C069, 917719C079, 917719C136
Project Name	Project - Car Resale Value Prediction
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web User Interface	Html
2.	Application Logic-1	The dataset is first pre-processed and the pre-processed data is check for the presence of null values. Those null values are removed if any present. Then, the dataset is split into testing and training set. Then the data is trained using ML algorithm and the testing is done.	Python
3.	Machine Learning Model	Purpose of Machine Learning Model is to predict the resale price of the second-hand car	Random forest algorithm
4.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration	Flask

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open – source framework used is Flask	It is a micro web framework written in python. Flask allows python developers to create light weight RESTful API's
2.	Scalable Architecture	The scalability of the application is ensured by effectively supporting multiple users simultaneously.	Scalability can be achieved by testing the application using tools like jmeter.
3.	Availability	Application will be reliable and responsive.	The availability of the application can be achieved with the help of bootstrap.