

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

Date	25-10-23
Team ID	Team-593081
Project Name	Car Purchase Prediction Using ML
Maximum Marks	4 Marks

Technical Architecture:

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

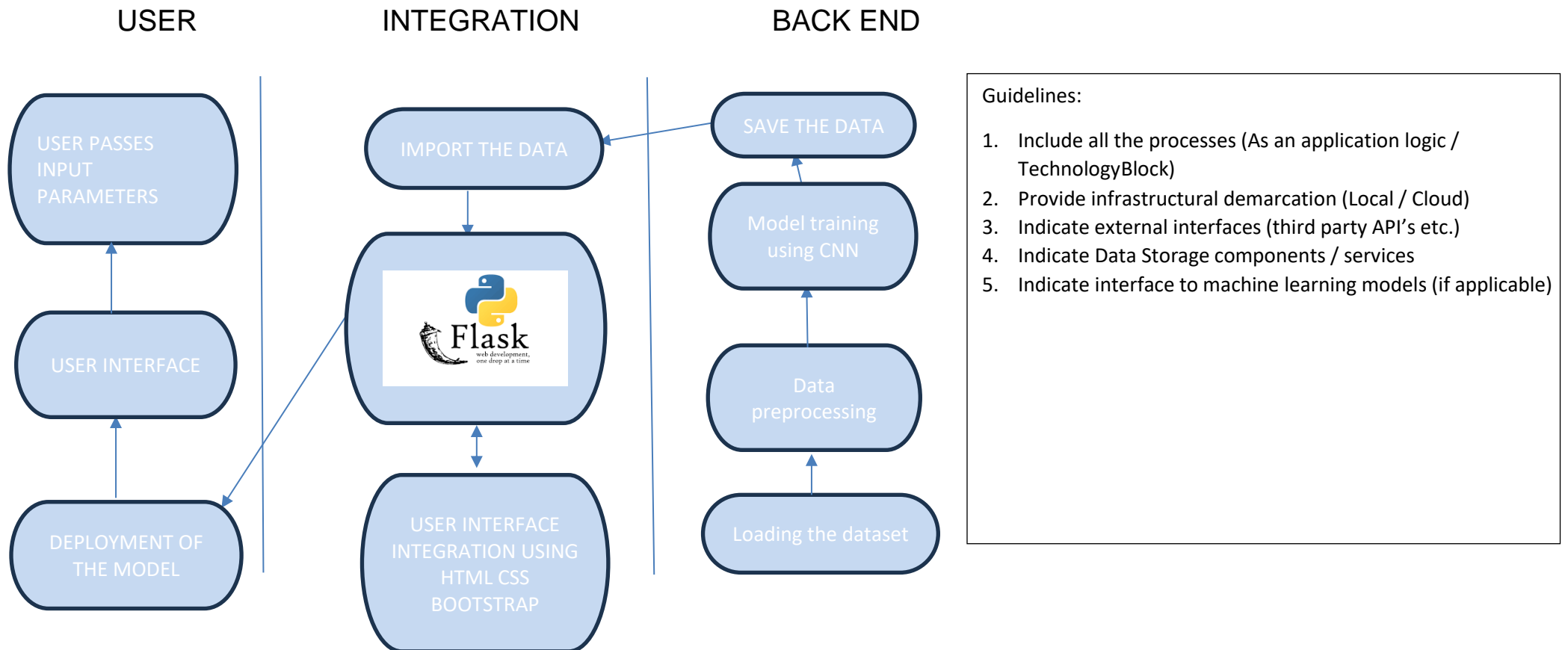


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS
2.	Application Logic-1	Logic for a process in the application	Python
3.	Database	Collect the Dataset Based on the Problem Statement	CSV File
4.	File Storage/ Data	File storage requirements for Storing the dataset	Local System
5.	Frame Work	Used to Create a web Application, Integrating Frontend and Back End	Python Flask
6.	Machine learning model	Purpose of Model	Decision Tree Classifier
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python's Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	NIL
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	NIL
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	NIL

S.No	Characteristics	Description	Technology
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	NIL