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

Date	15 November 2023
Team ID	Team-591345
Project Name	Ecommerce Shipping Prediction Using Machine Learning
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 through web	HTML connected with flask
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for user Interface	HTML, JavaScript
4.	Application Logic-3	Logic for connecting UI with application	Flask
5.	Training Data	Given Data for training machine learning models	CSV file - Excel
6.	Coding Infrastructure	IDE where code is written and executed	Jupyter Notebook, VS Code
7.	Machine Learning Model	Purpose of Machine Learning Model	Accuracy Prediction model using sklearn

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source libraries	Libraries such as scikit-learn, matplotlib, pandas,seaborn, numpy, pickle, xgboost etc.	Python libraries
2.	Availability	Available to all customers by giving input and getting prediction output	HTML and JavaScript
3.	Performance	Trained model with around 11000 records of data, hence high performance and accuracy	Scikit-learn