Project Design Phase-II

Technology Stack (Architecture & Stack)

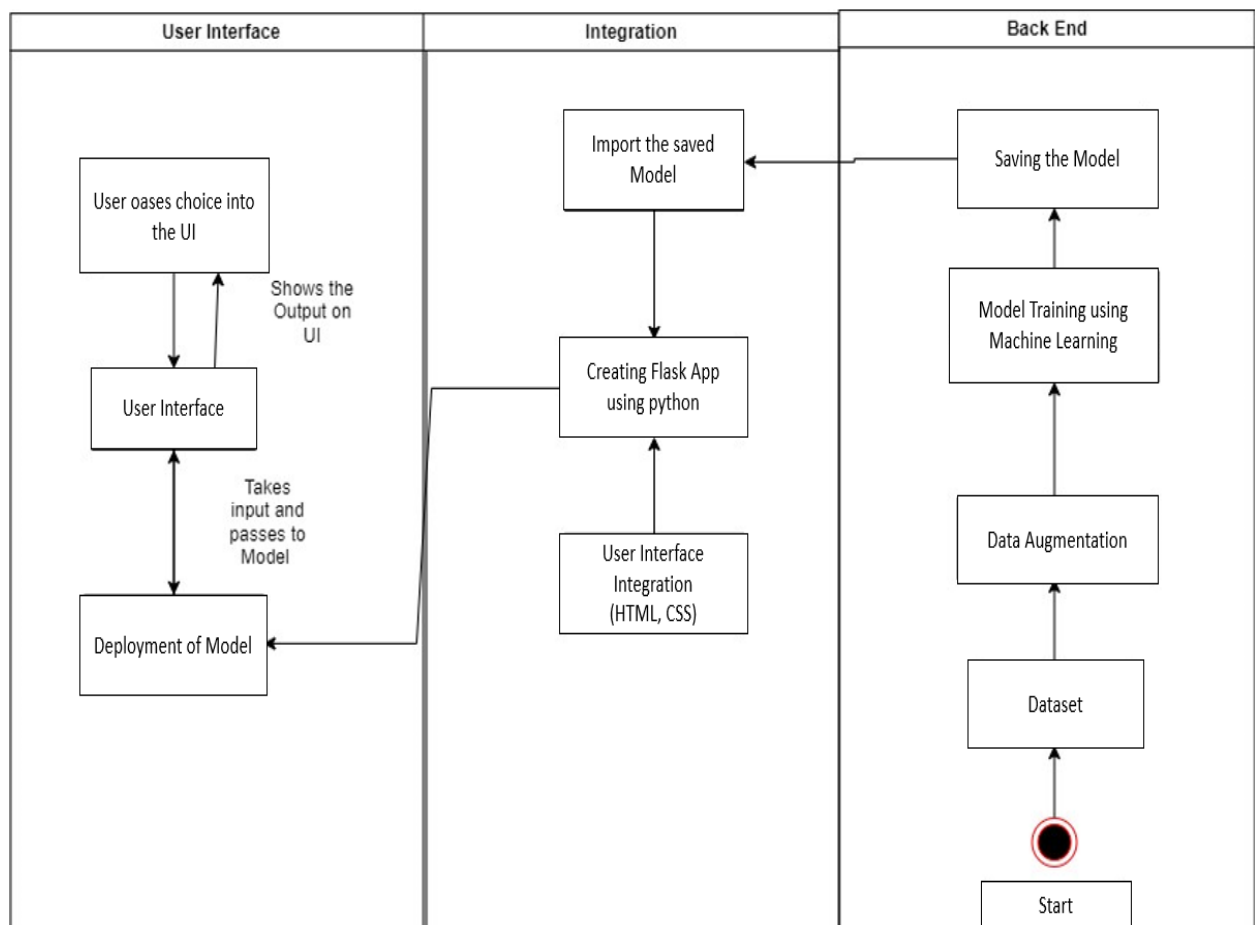| Date	24 October 2022
Team ID	Team - 592805
Project Name	Restaurant Recommendation System
Maximum Marks	4 Marks

Technical Architecture:

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS
3.	Database	Collect the Dataset Based on the Problem Statement	Kaggle
4.	File Storage/ Data	File storage requirements for Storing the dataset	Local System, Google Drive
5.	Frame Work	Used to Create a web Application, Integrating Frontend and Back End	Python Flask
6.	Deep Learning Model	Purpose of Model	ML algorithms, K-nearest algorithm
7	7. Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, AWS

Table 2 :- Application characteristics

S.No	Component	Description	Technology
1	Open-Source Frameworks	Open-source libraries used for development	Python's Flask, matplotlib, seaborn, NLTK, pandas
2	Security Implementations	Security and access control measures implemented	Used Aws Identity Access Management(IAM)
3	Performance	Design Considerations for application	ML algorithms for optimize recommendation speed.
4	Availability	Justification of application availability	AWS free tier services for hosting with redundancy in different AWS availability zones.