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

Date	23 October 2023
Team ID	Team-591695
Project Name	Fraud detection 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

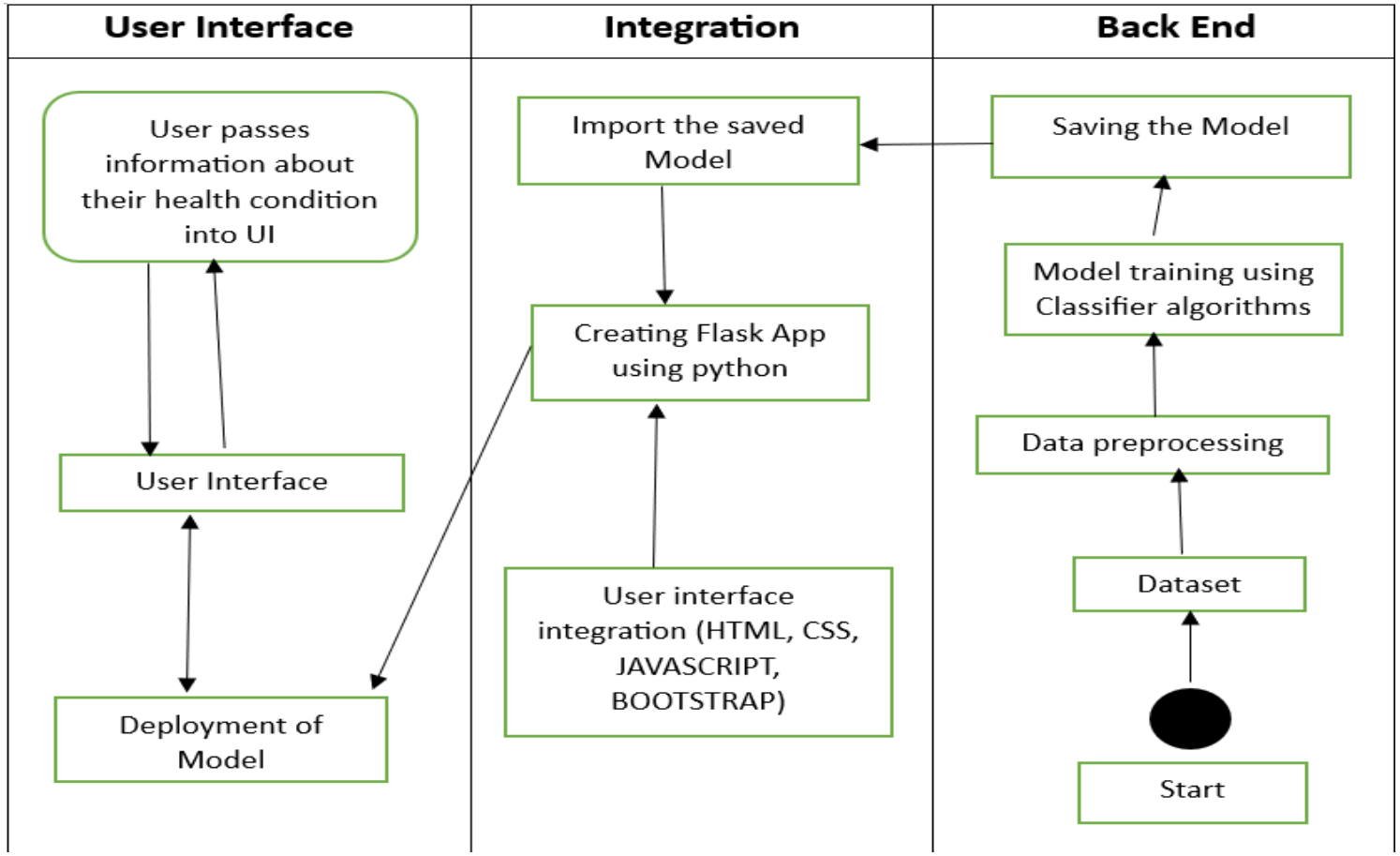
User Interface
Integration
Back End
User passes information about their health condition into UI
User Interface
Deployment of Model
Import the saved Model
Creating Flask App using python
User interface integration (HTML, CSS, JAVASCRIPT, BOOTSTRAP)
Saving the Model
Model training using Classifier algorithms
Data preprocessing
Dataset
Start

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS, JavaScript etc.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Database	Collect the Dataset Based on the Problem Statement	File Manager, MySQL etc.
4.	File Storage/ Data	File storage requirements for Storing the dataset	Local System, Google Drive Etc
5.	Frame Work	Used to Create a web Application, Integrating Frontend and Back End	Python Flask etc
6.	Deep Learning Model	Purpose of Model	Machine learning classifier algorithms.
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.	Controls, etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Web services
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	