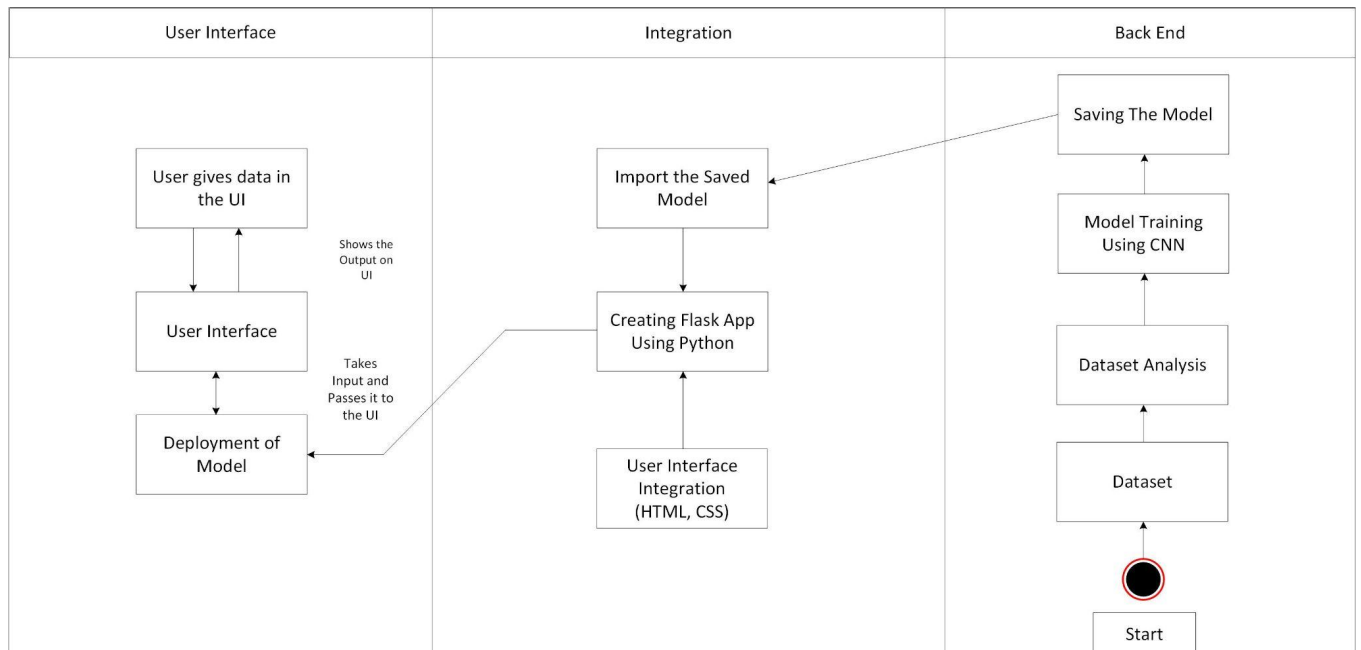


## Project Design Phase-III Technology Stack (Architecture & Stack)

Date	13 November 2023
Team ID	591761
Project Name	Predicting Mental Health Illness of Working Professionals Using Machine Learning
Maximum Marks	4 Marks

### Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2



#### Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Machine Learning Algorithm to Analyze Responses	Python
3.	Database	Collect the Dataset Based on the Problem Statement	File Manager
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, Django etc
6.	Deep Learning Model	To Predict Mental Illness In Employees	CNN, Transfer Learning etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask (Python)
2.	Performance	Design consideration for the performance of the application	Caching

References:

<https://c4model.com/>

<https://www.leanix.net/en/wiki/ea/technical-architecture>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>