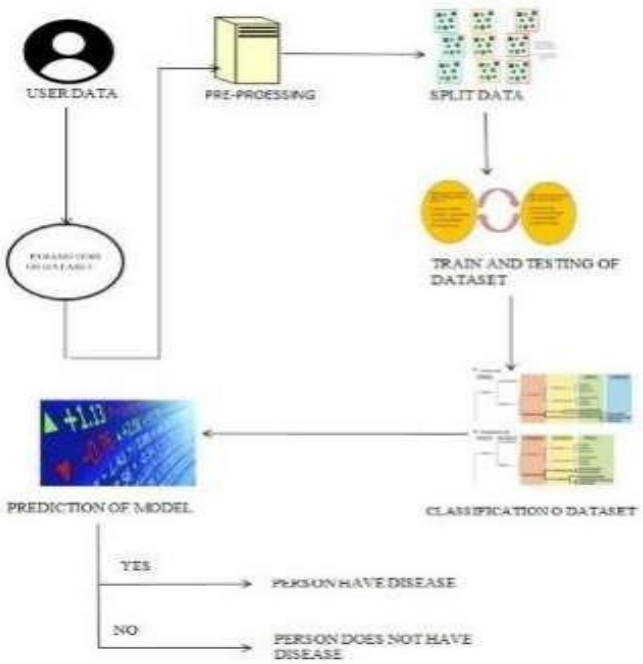
PROJECT DESIGN PHASE-II

TECHNOLOGY STACK (ARCHITECTURE & STACK)

DATE	22 OCTOBER 2022
TEAM ID	PNT2022TMID52840
PROJECT NAME	STATISTICAL MACHINE LEARNING APPROACHES TO LIVER DISEASE PREDICTION
MAXIMUM MARK	4 MARKS

TECHNICAL ARCHITECTURE:



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, Bootstrap
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson
4.	Database	Data Type, Configurations etc.	MySQL
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
6.	File Storage	File storage requirements	IBM Block Storage or Local Filesystem
7.	External API-1	Purpose of External API used in the application	IBM Weather API
8.	Machine Learning Model	Purpose of Machine Learning Model	To predict the desired output by using classification
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: http://127.0.0.1:5000/	Local host

TABLE-2: APPLICATION CHARACTERISTICS:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used:	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Technology used
3.	Scalable Architecture	Justify the scalability of architecture	Technology used
4.	Availability	Justify the availability of application	Technology used
5.	Performance	Design consideration for the performance of the application	Technology used