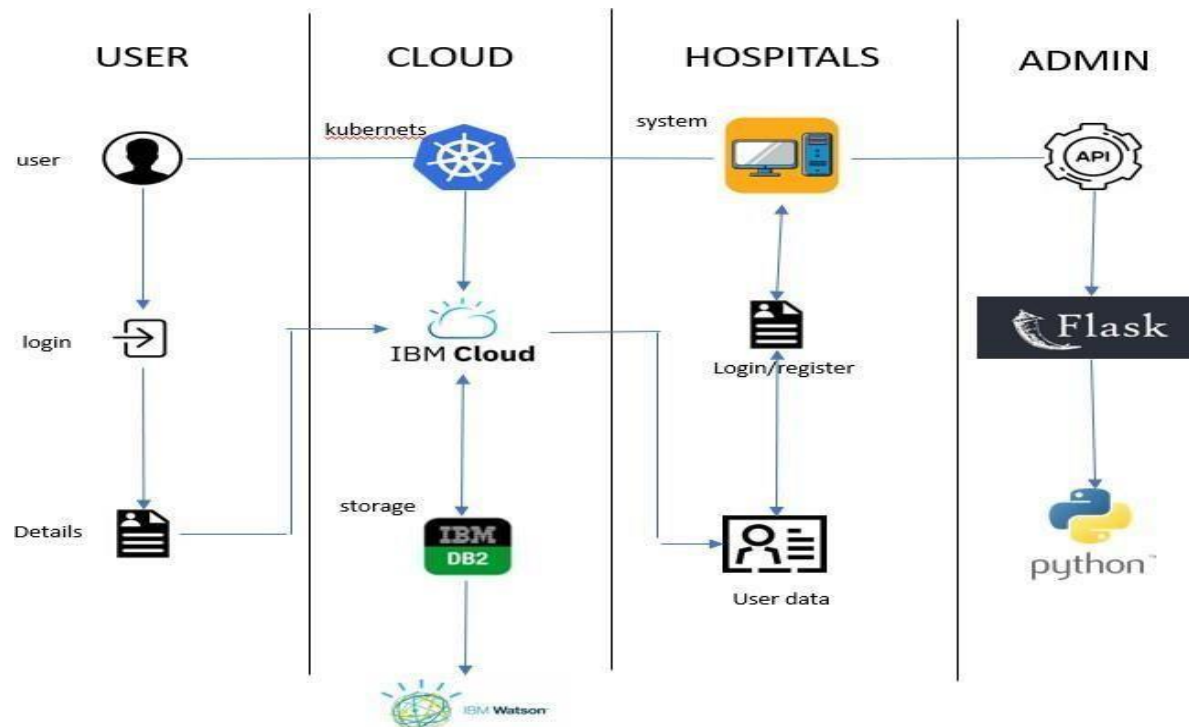


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	29 October 2022
Team ID	PNT2022TMID32447
Project Name	Statistical Machine Learning Approaches to Liver Disease Prediction
Maximum Marks	4 Marks

### Technical Architecture:



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

S.No	Component	Description	Technology
1.	User Interface	User interact with our application through web User Interface.	HTML, python flask
2.	Application Logic-1 -login page	When the user click on the login button , he/she is directed to login page, if they are registered already	HTML, CSS, python flask
3.	Application Logic-2-Registration	When the user click on the Register button, he/she is directed to Register page for further process.	HTML,CSS, Python flask
4.	Application Logic-3-Test Vitals Form	After Logged in , when the user click on the test vital form button ,he/she directed to the form page to enter the vitals for prediction	Front end- HTML ,CSS ,MySQL,Python flask Back end-Python
5.	Database	Data type - String ,Numeric	CSV
6.	Cloud Database	Database Service on Cloud	IBM
7.	File Storage	File storage requirements	IBM Storage Service
8.	External API-1	NIL	NIL
9.	External API-2	NIL	NIL
10.	Machine Learning Model	Get the data from the user and predict the data with tested and trained dataset models	Data Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Cloud Server Configuration : IBM Watson	NIL

**Table-2: Application Characteristics:**

<b>S.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	International Business Machines.	Cloud.
2.	Security Implementations	Access permission for login page using CAPTCHA	Encryptions.
3.	Scalable Architecture	The key of Three tier architecture is improving scalability.	Three tier architecture
4.	Availability	Load balancer or ADC is the key component that ensures high availability by sending request.	Load balancer
5.	Performance	The system should be able to handle large number of users at the time	Load balancer.