Visualizing and Predicting Heart Diseases with an InteractiveDash Board

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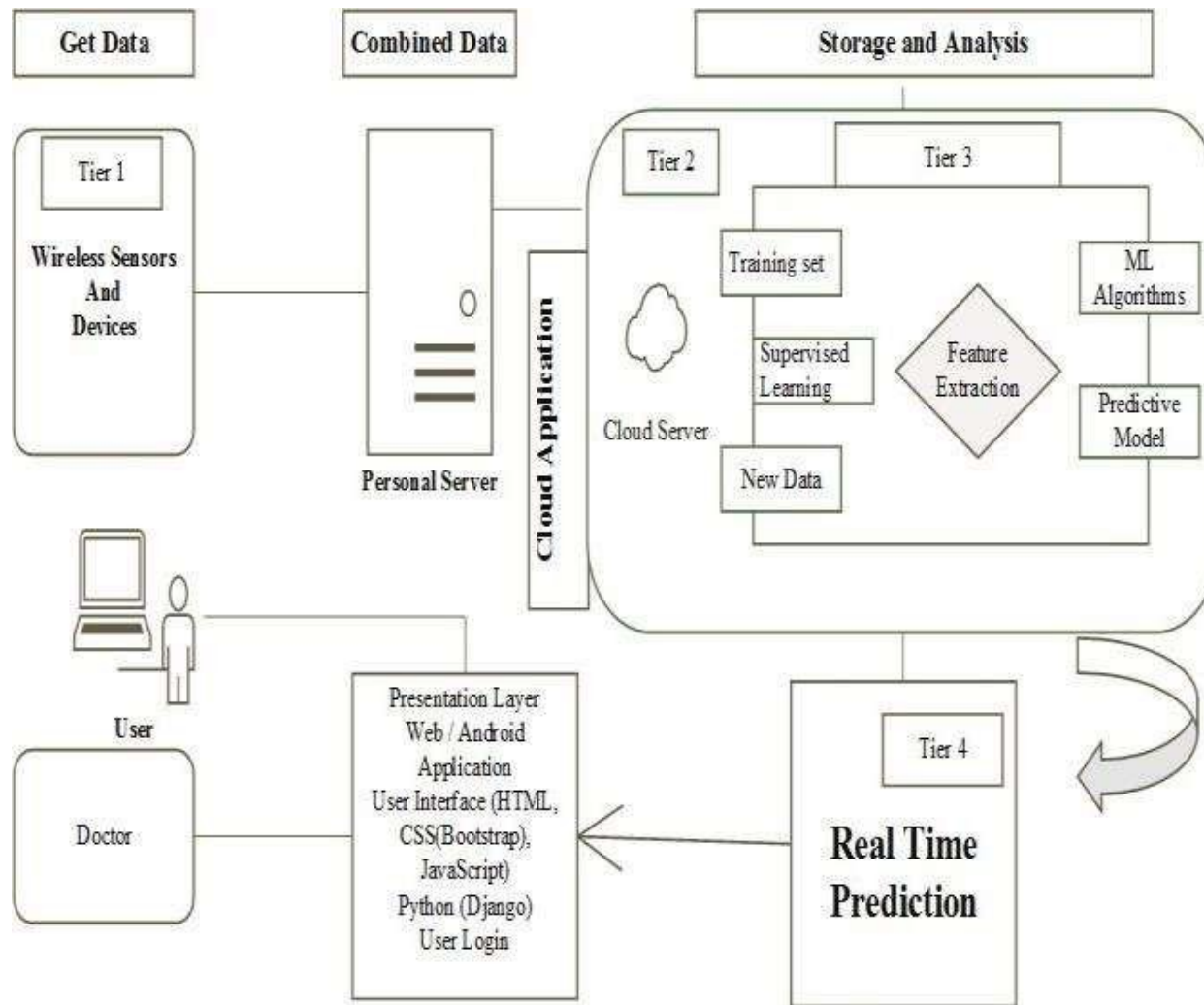
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Technical Architecture

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g.Web UI, Mobile App, etc.	HTML, CSS, Python etc.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Cognos Analytics
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Pak etc.
7.	File Storage	File storage requirements	Use Professional Records Storage, IBM Block Storage or Other Storage Services.
8.	External API	Purpose of External API used in theapplication	IBM SPSS, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System /Cloud Local Server Configuration: Cloud Server Configuration :	Personal Server, IBM Cloud Serveretc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open-source frameworks used	Technology of Opensource framework – Django or Flask inPython.
2.	Security Implementations	Security / access controls implemented, use offirewalls etc.	e.g. Privacy - Encryptions, IBMSecurity Manager etc.
3.	Scalable Architecture	Scalability of architecture (3 – tier, Micro-services)	Technology used - IaaS, PaaS,SaaS (IBM Cloud).
4.	Availability	Availability of application	Technology used - The Availability ofgetting used to this software or product design is through by accessing IBMcognos Analytics and IBM cloud.
5.	Performance	Performance of the application	Technology used - The performanceshould be fast relaying. This prediction system should be made available incloud to ensure better accessibility and setting a milestonein providing good quality affordable healthcare.

References : **https://www.ibm.com/products/**

cognos-analytics

https://cloud.ibm.com/catalog/services/watson-

assistanthttps://www.ibm.com/in-en/cloud-paks **https://**

www.ibm.com/cloud