

Project Design Phase-II
TechnologyStack(Architecture&Stack)

Date	5 November 2022
TeamID	PNT2022TMID23206
Project Name	Visualizing and Predicting Heart DiseaseswithanInteractiveDashBoard
Maximum Marks	4Marks

TechnicalArchitecture

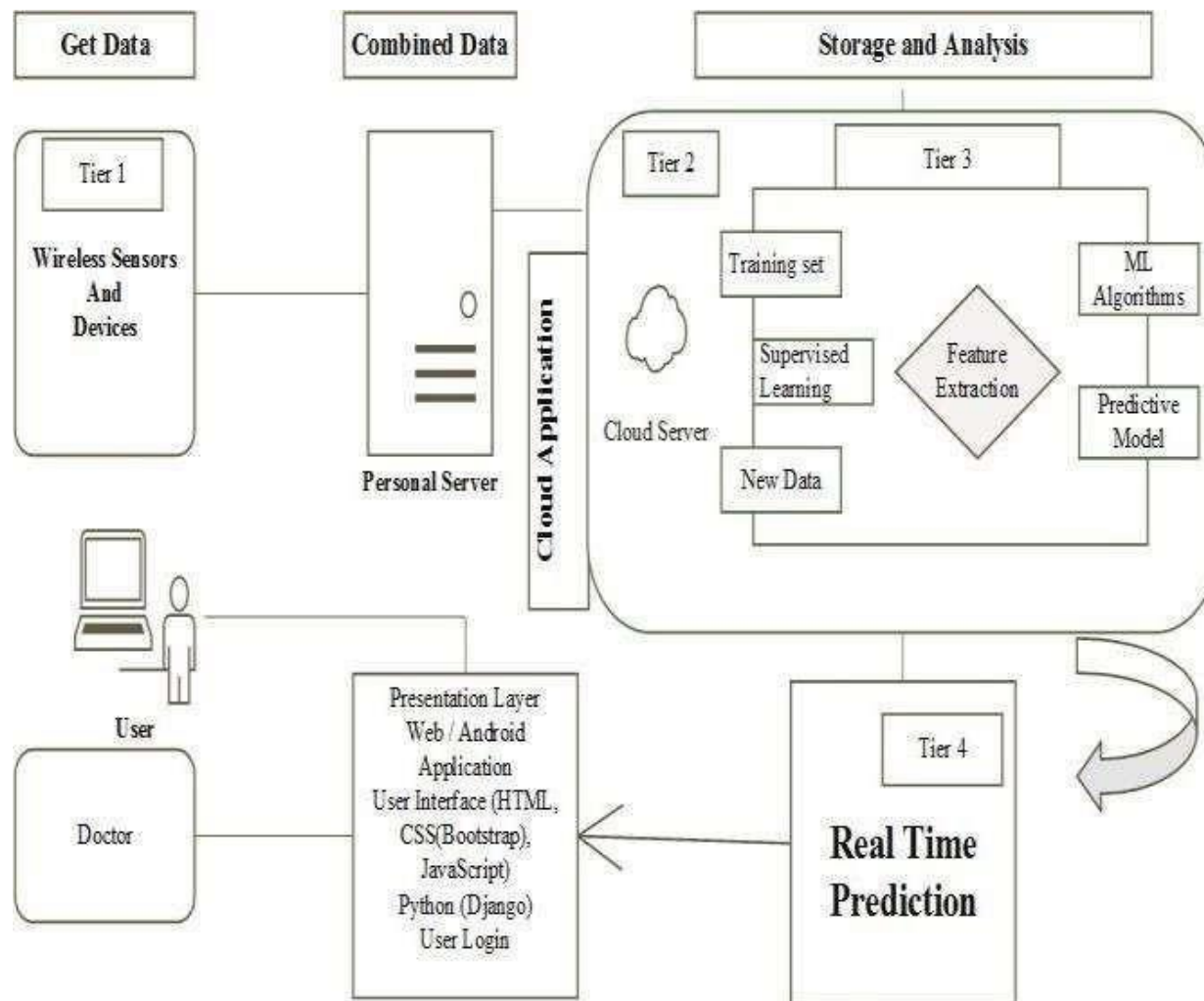


Table-1:Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	How user interacts with application e.g.WebUI,Mobile App,etc.	HTML,CSS, Python etc.
2.	ApplicationLogic-1	Logicforaprocessintheapplication	Python
3.	ApplicationLogic-2	Logicforaprocessintheapplication	IBMCognosAnalytics
4.	ApplicationLogic-3	Logicforaprocessintheapplication	IBMWatson Assistant
5.	Database	Data Type,Configurationsetc.	MySQL,etc.
6.	CloudDatabase	DatabaseServiceonCloud	IBMDB2,IBMPaketc.
7.	FileStorage	Filestoragerequirements	UseProfessionalRecordsStorage, IBM Block Storage or Other StorageServices.
8.	ExternalAPI	Purpose of External API used in theapplication	IBMSPSS,etc.
9.	Infrastructure(Server/Cloud)	ApplicationDeploymentonLocalSystem/Cl oud Local Server Configuration:CloudServerC onfiguration:	PersonalServer,IBMCloudServeret c.

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	Open-sourceframeworksused	Technology of Opensourceframework – Django or Flask inPython.
2.	SecurityImplementations	Security/accesscontrolsimplemented,useoffirewallsetc.	e.g. Privacy - Encryptions, IBMSecurityManageretc.
3.	ScalableArchitecture	Scalability of architecture (3 – tier, Micro-services)	Technology used - IaaS, PaaS,SaaS(IBMCloud).
4.	Availability	Availabilityofapplication	Technologyused- TheAvailabilityofgetting used to this software orproduct design isthroughbyaccessingIBMcognosAnalyticsand IBMcloud.
5.	Performance	Performanceoftheapplication	Technology used - The performanceshould be fast relaying. Thisprediction systemshouldbemadeavailableinclo udtoensurebetter accessibilityandsettingamilestonein providinggood qualityaffordablehealthcare.

References

:<https://www.ibm.com/products/cognos-analytics>

<https://cloud.ibm.com/catalog/services/watson-assistant>
<https://www.ibm.com/in-en/cloud-paks>
<https://www.ibm.com/cloud>