

Project Team

Tonaue



MEDHA

Product



Full	Gowtham Oleti
Name Organizatio	LPU Punjab
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Cocatio	A Hyderabad
Mother	Telugu

Aerospace



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	Name Organizatio	Akbar LPU Punjab
	Ag	1
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_	Tongue	

Robotics & Automation Engineer



	Full Name	Dhruva Shaw
	Organization	LPU Punjab
N	Age	20
	Location	Kolkata
	Mother Tongue	Hindi

Pharmacist



Full Name	Mohamed Nihal P
Organization	LPU Punjab
Age	23
Location	Malappura
Mother Tongue	m Malayalam

MENTORS: Dr. Vivek Sharma (24810), M

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Domain of Proposed Problem:

"Virtual Consultation with doctor" falls within the domain of diagnostic medicine, specifically in the area of diagnosis and services. Virtual interaction allows the patient to directly interact with a doctor by means of photo, video or chat.



Analysis

No.	Stakeholders list	Key activities by Stakeholders	Difficulties faced by Stakeholders
1	Gowtham Oleti	Website Interface Design	NA
2	Dhruva Shaw	Coding and integration of data from the medical devices	Standardization of devices
3	Nuha Bind Akbar	Preparation of Ppt	NA
4	Mohamed Nihal P	Data Collection	NA



Existing & Emerging Solutions

Website Name	Website URL	Key Features	Limitations/gaps
	https://www.maxhealthcare .in/investors	Virtual consultation	Real time monitoring
Lybrate	https://www.lybrate.com/	Virtual Consulatation	Data gathering



Relevant

	Note valit						
Pap	BLN D.	Tale	Authors	Year of Publicatio n	Journal Name	Key Takeaways	Keywords
1		Health Data from Wearable Devices	D. Dey, A. B. Rao, and S. Suresh Kumar				Sensors, wearable devices
2		monitoring of vital signs using wearable devices	K. B. K. Abdulaziz and M. A. Al- Jumaily			Medical device fabrication and functions	Fabrication , real time monitoring



Analysis

Market Size

USD 19.4 billion in 2020 and is expected to grow at a CAGR(compound annual growth rate) of 25.2% from 2021 to 2026.

Gaps in the Existing Solutions

- Limited Patient Engagement
- Limited clinical decision support
- Incomplete integration with EHRs
- Limited Data Security



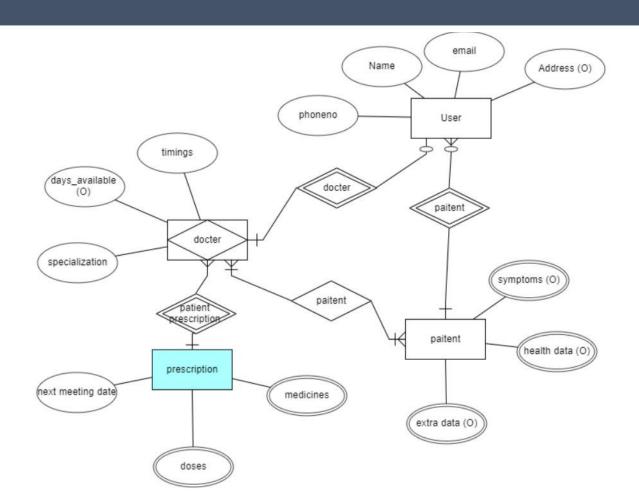
Problem Definition and Intended



Use

Need	Real time monitoring and integration of data.
Statement	
Who	All age groups
(User of	
the	
Device)	
What	Combination of health care devices into one device
When	In the near future when all the health devices are compatible to each other
Where	In the field of health care industry
Why	Insufficient data of the patient during virtual consultation
Intended Use	During pandemic time and also while facing transportation issues and health
	issues







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"heath deta = ["E(G": 12.3 "Rulse": 123, with this standard format any devices can be connected with white and the data can be enchanged between the two seamlessly

Potential Concepts to Solve the Problem

A service is provided, which facilitates the doctor and the patient to have a clear idea about the health conditions. Here, we have used an idea that collects the data from various health devices that enables the doctor to conduct the preliminary diagnosis.

Key Features of Proposed Device

- Device Integration
- Data Aggregation
- Real time monitoring
- Alerts and Notifications
- Customization
- Secure Communication

Value Propositions for Proposed Device

- Improved Patient Outcomes
- Enhanced Patient Experience
- Cost savings
- Better Data Analytics
- Improved Care Coordination
- Increased Patient Engagement



Tentative Development



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Cost

SI. No.	Utilities	Cost
1	Server	\$10 per/month
2	Database egres	\$0.005/month
3	Website building	Rs.25000

References



- 1. https://github.com/WorldFamousElectronics/PulseSensorPlayground
- 2. https://www.alldatasheet.com/view.jsp?Searchword=HW827&sField=1
- 3. https://www.espressif.com/sites/default/files/documentation/0a-esp8266ex_datasheet_en.pdf
- 4. https://github.com/espressif/arduinoesp32/blob/master/libraries/WiFi/src/WiFiClient.
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THANK YOU