MSME Hackathon 4.0 Idea Submission

	Title of the Idea	A unified platform for health services, connecting you to care, knowledge, and hope.
	Ref No	INC24DAP046962
1	Aadhaar Number	9499 3221 0995
	Institute Name	Anil Neerukonda Institute of Technology and sciences
	Department	Information technology
1	Name as per Aadhaar Number	Akkapatruni Yaswanth

	Category	
1.9	General	General
	SC	
	ST	
	OBC	

1.11	Address (Personal Address) Note:- Kindly do not write the Name/Organization Name/ Company Name of the incubatee in order to maintain transparency in the evaluation process.	Sri venakata sai residency 4th floor T-2, Durga Nagar, Naiduthota (530047), Visakhapatnam, Andhra Pradaesh, India
2.2	(Maximum 1500 characters allowed) Whether the idea involves use of existing intellectual property or not, give brief detail there of	The idea behind "Sperow" does not rely on pre-existing intellectual property but builds upon a unique and holistic approach to addressing healthcare challenges in India. Our platform leverages publicly available healthcare data, AI-based analysis, and open medical databases to create a new space for doctors and patients to interact. While some underlying technologies (such as AI models, secure data handling, and price comparison tools) are commonly available, we have customized
2.7	Name and details of Mentors Maximum 500 characters allowed.	**NAME** : Dr. P. Murugapandiyan
2.8	Experience and Qualification of Mentors	
2.9	Contact Details of Mentors	**MAIL** : **PHONE** : +91 84596 33255
2.10	Current Development Status of innovation (Maximum 500 characters allowed.)	Sperow is in the prototype phase for the doctor-patient social platform, which facilitates interactions between verified doctors and users. The next stage involves developing the AI-powered medical consultations feature. Additionally, both the blood donation management system and the medical price comparison tool, which will allow users to find the lowest prices for medicines online and offline, are included in our future development plans.
2.11	Expected time of completion of idea (Maximum 500 characters allowed)	We anticipate completing the doctor-patient social platform within 3 months, followed by the development of the AI-powered medical consultations feature, which will take approximately 6 to 8 months. The integration of the blood donation management system and the medical price comparison tool is projected to follow within the next 3 to 4 months after the AI consultations are completed. Overall, we aim to have a fully functional platform within 12 months, ensuring all features are well-tested and user-friendly.

3.1	Technology related Expenditure towards machine usage charges etc., Electricity charges, Procurement of raw material , testing/Calibration charges, other charges essential for development of idea Max (10.00) lakh.	
	Charges for mentor/handholding supporting team Max (3.00) lakh.	
	Travelling Expenses or any other item not coverd as above may be allowed as per need for development of the idea Max (2.00) lakh.	
4	Please give name of other students/Entrepreneurs associated with this project/idea, if any (in the periodical order):	
	Name	NAME : A.YASWANTH Aadhar No : 9499 3221 0995
	Aadhar No	NAME : D. BHARATH SAI Aadhar No : 9499 3221 0995
		NAME : B.SURYA CHARAN Aadhar No : 4313 6196 5247
		NAME : A.HEMANT KUMAR Aadhar No : 9499 3221 0995
5	(Maximum 750 characters allowed.) Summary of the idea. This is the section reviewers read to understand the technical solution. Please state the solution clearly. Reviewers may ask: What is the actual technical advancement or improvement provided by this solution?	Sperow is a comprehensive healthcare platform addressing the urgent need for seamless access to medical services. Unlike existing apps, Sperow integrates four essential features to simplify user and doctor interactions. **Blood Donation Management System:** Users can easily locate nearby blood donors and organizations via a map, eliminating time-consuming calls and ensuring swift blood availability. **AI-Powered Medical Consultations:** Our AI analyzes patient medical records to deliver critical insights, streamlining doctors' review processes, reducing consultation times, and enhancing diagnostic accuracy. **Doctor-Patient Social Platform:** This feature creates a trusted space for verified doctors to respond to user queries, combatting misinformation and facilitating knowledge sharing among healthcare professionals. **Medical Price Comparison Tool:** Users can compare medicine prices across various pharmacies, both online and offline, helping them find the best deals and reducing overall healthcare costs. By bringing these services together, Sperow aims to revolutionize healthcare access and affordability, making quality health services available to everyone.
6.a	Is it a new concept?	YES
	Yes	
	No	
6.b	Prior art on the concept, if any (Maximum 300 characters allowed.)	EKA Care provides health trackers and insights but lacks a blood donation feature. While blood donation apps exist, none connect patients with donors effectively. Additionally, no platforms allow users to ask verified doctors questions. There are also no dedicated medicine price comparison apps, making Sperow's integration unique.

7	(Maximum 500 characters allowed.) Main Problem Being Addressed in the Project (Every solution targets a certain problem. Please use this section to highlight the specific problem the solution addresses. This section can be as short or as long as needed to describe the precise problem the solution addresses)	In India, accessing healthcare services is often fragmented and inefficient. Patients struggle to find blood donors quickly, leading to delays in emergencies, as existing apps do not effectively connect donors with recipients. Misinformation in healthcare abounds, with users relying on unreliable sources for medical advice. Furthermore, there is no platform for verified doctors to answer user queries directly. AI can analyze medical records to provide insights and improve consultation efficiency, but this potential remains largely untapped. Lastly, the lack of dedicated medicine price comparison tools results in higher healthcare costs, limiting access to affordable care.
8	8. Background for getting the idea?	
	a. Who is it for? (Maximum 300 characters allowed.)	Sperow targets patients seeking accessible healthcare solutions, including those in need of blood donations, medical consultations, and verified medical advice. It also benefits doctors by providing clear insights from AI analysis of medical records, helping them avoid missing critical information. Additionally, the platform facilitates knowledge sharing for researchers and healthcare professionals, enhancing collaboration and improving patient outcomes.
	b.What will it do? (Maximum 300 characters allowed.)	Sperow will provide a comprehensive platform that enables users to find blood donors easily, receive AI-driven medical insights from their records, and ask questions to verified doctors through a dedicated social platform. This platform will also facilitate knowledge sharing among professionals. Additionally, it will offer a medicine price comparison feature, streamlining healthcare access and making it more efficient and user-friendly.
	c. Any unique features? Explain? (Maximum 300 characters allowed.)	Sperow uniquely integrates four key features: a blood donation management system connecting donors and recipients, an AI-powered consultation tool providing insights from medical records, a doctor-user social platform for verified Q&A and knowledge sharing among professionals, and a medicine price comparison feature, enhancing accessibility and affordability in healthcare.
9	How simple or complex will the idea's execution or implementation be? What are the risk factors involved in executing the idea? (Maximum 500 characters allowed.)	The execution of Sperow will be moderately complex, requiring a multi-faceted approach to integrate various features seamlessly. Development involves creating a user-friendly interface, robust backend systems, and effective AI algorithms for medical insights. Key risk factors include potential regulatory challenges in healthcare, data privacy concerns, and the need for collaboration with healthcare professionals to ensure accuracy and reliability. Additionally, securing user trust for the social platform and ensuring a sufficient database of verified doctors are crucial for success.
10	How soon could the idea be put into operation? (TRL of prototype) (Maximum 200 characters allowed)	The idea is at a TRL of 5, with prototypes of the blood donation management and doctor-user social platform developed. With further refinement and testing, it could be operational within 6-12 months.
11	How much investment would you need for prototyping of the Idea? (Maximum 200 characters allowed)	
12	(Maximum 300 characters allowed.) (a) How do you intend to protect your idea (i.e. your intellectual property or IP)? Status of IPR (If any)	We plan to protect our idea through a combination of trademarks for the Sperow brand and potential patents for innovative features, particularly the AI algorithms. Currently, we are in the early stages of development and have not yet filed for any formal intellectual property rights. However, we recognize the importance of establishing legal protections as we move forward.
	(Maximum 500 characters allowed.) (b) Related Background. This section is used to highlight information that can be used by the reviewers or patent attorney to help put the solution in proper context. You can think of this section as something similar to the introduction section of an academic publication. This section is specifically reserved for other people's work (please include competitive work) as well as your past work that you believe will aid the reviewers in understanding the technical landscape. Data related to or supporting your solution should not be in this section, it should be in Section III: "How is this Solution Made and Used."	The global digital health market is rapidly expanding, projected to reach USD 37 billion by 2030. In India, the online doctor consultation market is expected to grow to US$321.10 million by 2024, driven by increasing demand for medical services. Existing platforms like EKA Care provide medical consultations and health insights but lack comprehensive blood donation features. Sperow uniquely combines verified blood donation management, AI-powered consultations, and a doctor-patient social platform for knowledge sharing, addressing critical gaps in the current landscape.

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.How is this project made and used: Please describe in as much detail as possible how the innovation is implemented. This includes details on how you actually make, assemble, synthesize, or build the solution and details on how the solution is used once it is made. Reviewers will ask: How does the technical innovation actually work – or – what is the detailed process to achieve the technical innovation? Please help convince the reviewers with supporting statements using as much of the following that is available: your thoughts, logic, supporting literature, and/or experiments. | The project leverages AI to analyze patient medical records, ensuring doctors don't miss crucial insights and correlations that could impact diagnosis and treatment. The verified blood donation management system simplifies finding donors and blood banks through a map interface, enhancing accessibility. The user-doctor social platform allows users to ask questions that only verified doctors can answer, promoting reliable medical advice. The medical price comparison feature aggregates prices from pharmacies, enabling users to find affordable medications easily. This holistic approach enhances healthcare accessibility and reliability. |