**LIVE A-LONG**

**PROBLEM STATEMENT**

* **Limited Access to Medical Expertise:**

As over **400 million** people worldwide lack access to essential health services, devising a tool for early prediction of various diseases emerges as a critical solution.

* **Absence of Real-Time Multi-Disease Prediction:**

Early-stage predictions of diseases such as cancer can significantly reduce the mortality rate to as low as **27%**. However, the absence of accessible self-check tools contributes to a high mortality rate.

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**SOLUTION**

* Undertaking the development of a **multi-disease prediction** project.
* Incorporating **Android** and **web platforms**, and enriching it with **Augmented reality (AR)** and **Virtual reality (VR)** visualization of both healthy and affected organs.
* Disease prediction revolutionizes **early intervention**, **cost-effective treatment**, and **personalized care**, while AR/VR visualization enriches medical understanding and patient engagement.
* This medical technology also explores previously uncharted educational and diagnostic possibilities.

This endeavor aspires to transform the healthcare landscape, making it more proactive, informative, and ultimately, more compassionate.

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**PROJECT SCOPE**

* The scope of disease prediction within this project encompasses the development of **machine learning models** capable of early diagnosis and risk assessment for a wide range of diseases.
* These models will utilize diverse medical data sources to provide accurate predictions, ultimately empowering proactive healthcare and reducing the burden of preventable diseases.

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**REVENUE STREAMS**

* We are planning to implement a revenue model for **doctor consultations**.
* We can charge users a fee for accessing this service.
* Consider different pricing tiers, such as **one-time consultations** or **subscription plans** for frequent users.

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**TECH STACK**

* **AR/VR**
  + **Unity**
  + **Blender**
* **Android Native**
  + **Kotlin**
  + **XML**
  + **Firebase**
* **Machine Learning**
  + **NumPy**
  + **Pandas**
  + **Scikit Learn**
* **Website**
  + **Frontend (HTML, CSS)**
  + **JavaScript**
  + **PHP**
  + **React JS**
  + **Node JS**

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**TEAM MEMBERS**

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* Shubh Agarwal (Android)
* Rohit Verma (Web)
* Srishti Singh (Web)
* Shipra Maurya (Web)
* Vaishnavi Singh (AR/VR)
* Swatantra Agarwal (ML)
* Aryan Mishra (Mentor)

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