

HealthX - Demystifying HealthCare with AI

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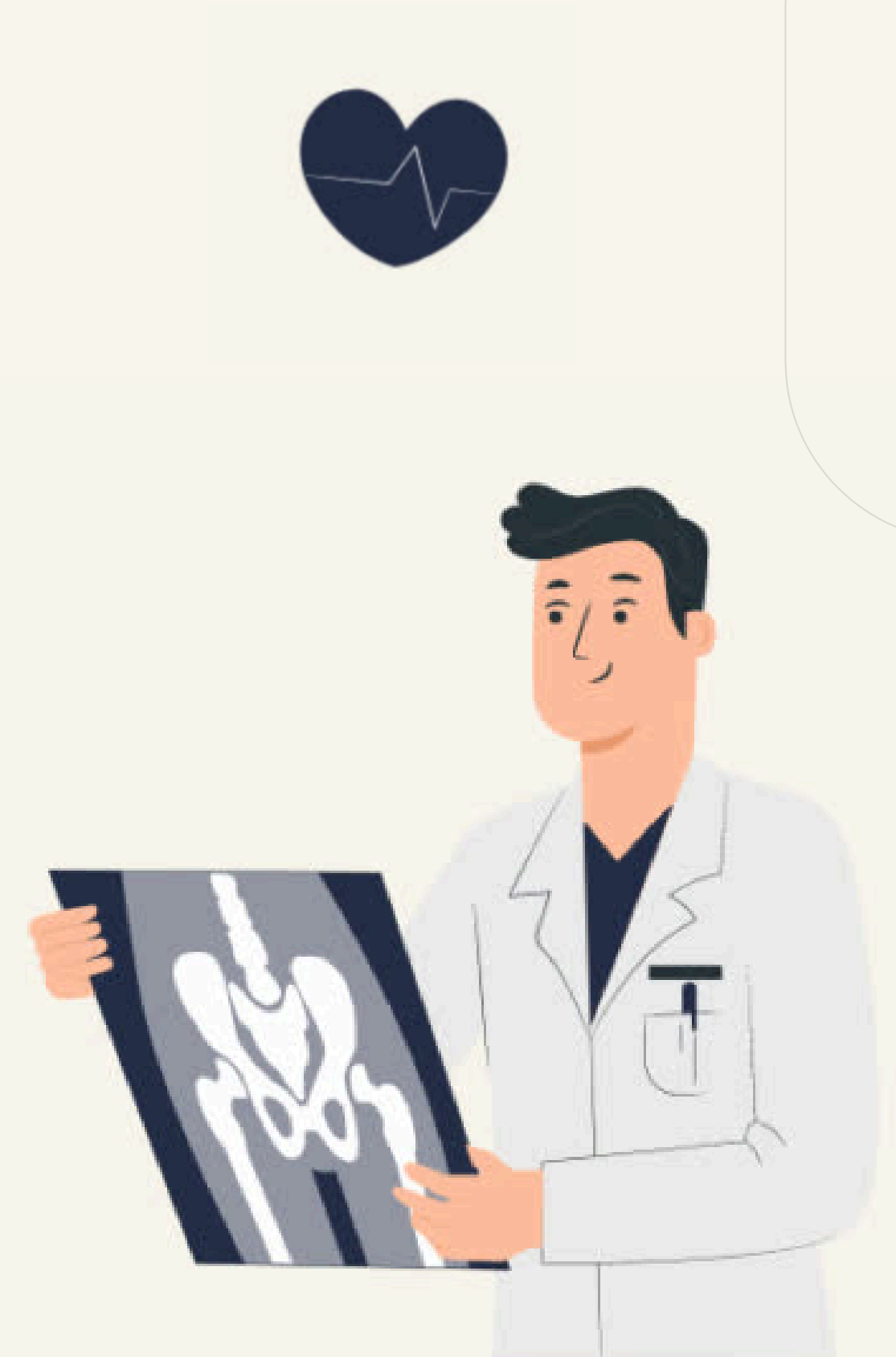


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Problem Identified

Rising Costs

- Healthcare spending continues to increase rapidly.
- Projected to reach \$6.2 trillion by 2028 in the US alone.
- Unsustainable financial burden on individuals and systems.

Lack of Personalization

- One-size-fits-all treatment approach
- Doesn't account for individual health data, history, risk factors

Problem Identified

Accessibility Issues

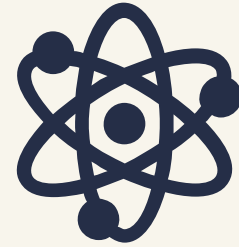
- Shortage of doctors/healthcare professionals
- Rural/remote areas lack adequate medical facilities
- Long wait times to see specialists

Reactive Treatment Model

- Healthcare system focused on treating illnesses after they occur
- Lack of emphasis on preventative care and monitoring
- Leads to higher costs, poorer outcomes

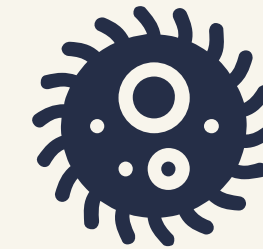


Values of the company



Mission

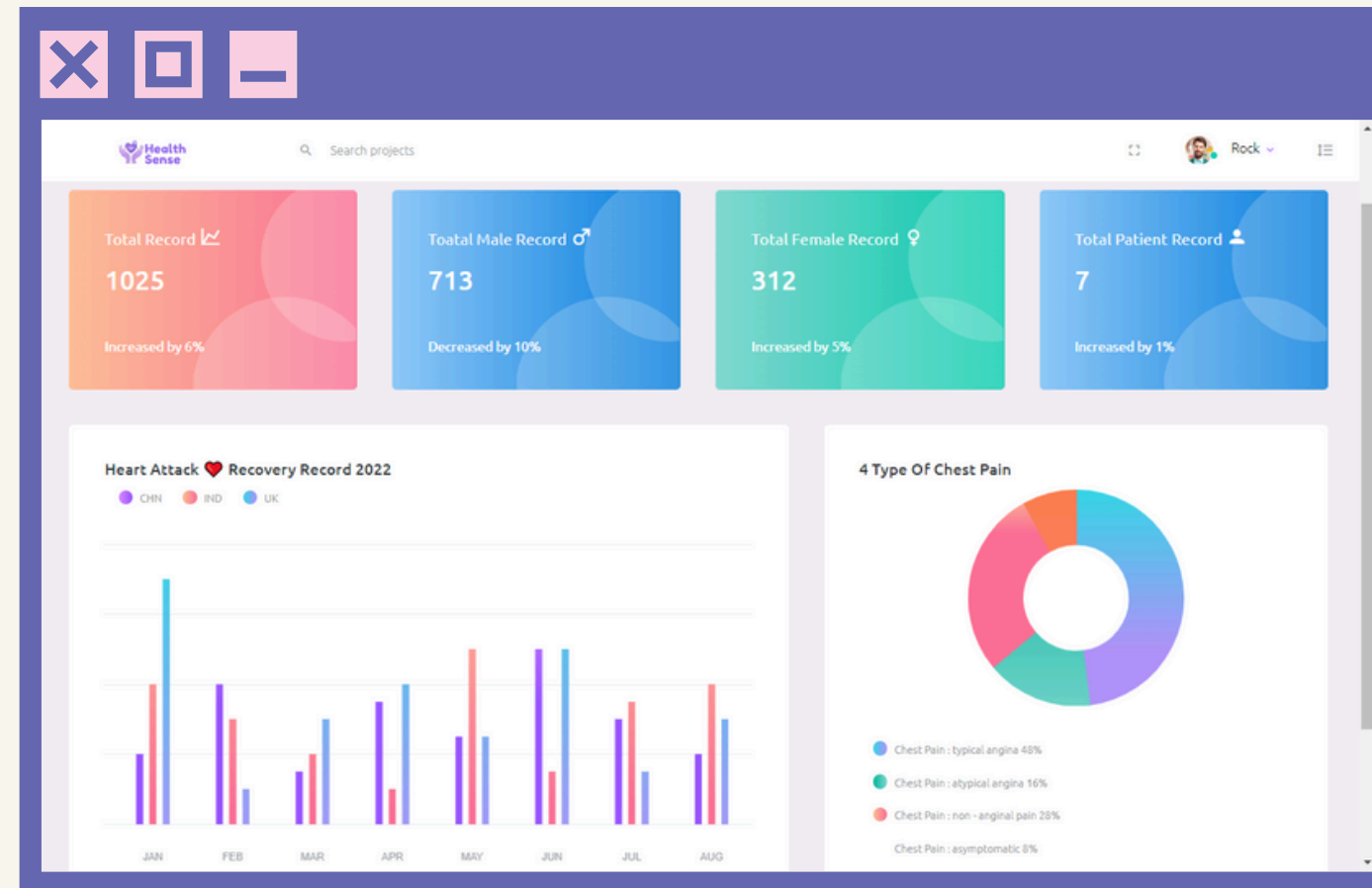
To revolutionize healthcare delivery through artificial intelligence, making quality care more accessible, affordable and personalized for all.



Vision

A world where advanced AI technologies empower individuals to take control of their health, enabling proactive monitoring, predictive diagnostics and intelligent care recommendations

Introduction



HealthX is an innovative AI-powered healthcare platform.

Leveraging cutting-edge technologies like conversational AI, predictive analytics, and IoT, it delivers personalized, data-driven care. HealthX empowers patients, improves outcomes, and reduces costs through its seamless, integrated digital experience.

Features

- 👩 Conversational Real Time Doctor
 - Get instant advice and recommendations

- 💻 Patient Health Record & IoT Tracking
 - Wearable devices monitor vitals continuously
 - Automatically update unified health record
 - Enable proactive care management

- 🔍 Predictive Heart Disease Diagnosis
 - AI models analyze integrated patient data
 - Identify risk of heart disease early
 - Enable timely preventative measures



Features

- 🧠 Predictive Generative Analytics & Remedies
 - AI models analyze health data & IoT inputs
 - Generate personalized care plans
 - Provide tailored remedy recommendations

- 📊 Visual Analytics Dashboard
 - Visualize all patient health metrics
 - Track treatment progress over time
 - Support data driven care decisions



IOT Device Used

WiFi Connectivity

- Self-contained SoC with integrated TCP/IP stack
- Supports WiFi Direct (P2P), Soft-AP modes
- Can host applications or offload WiFi functions

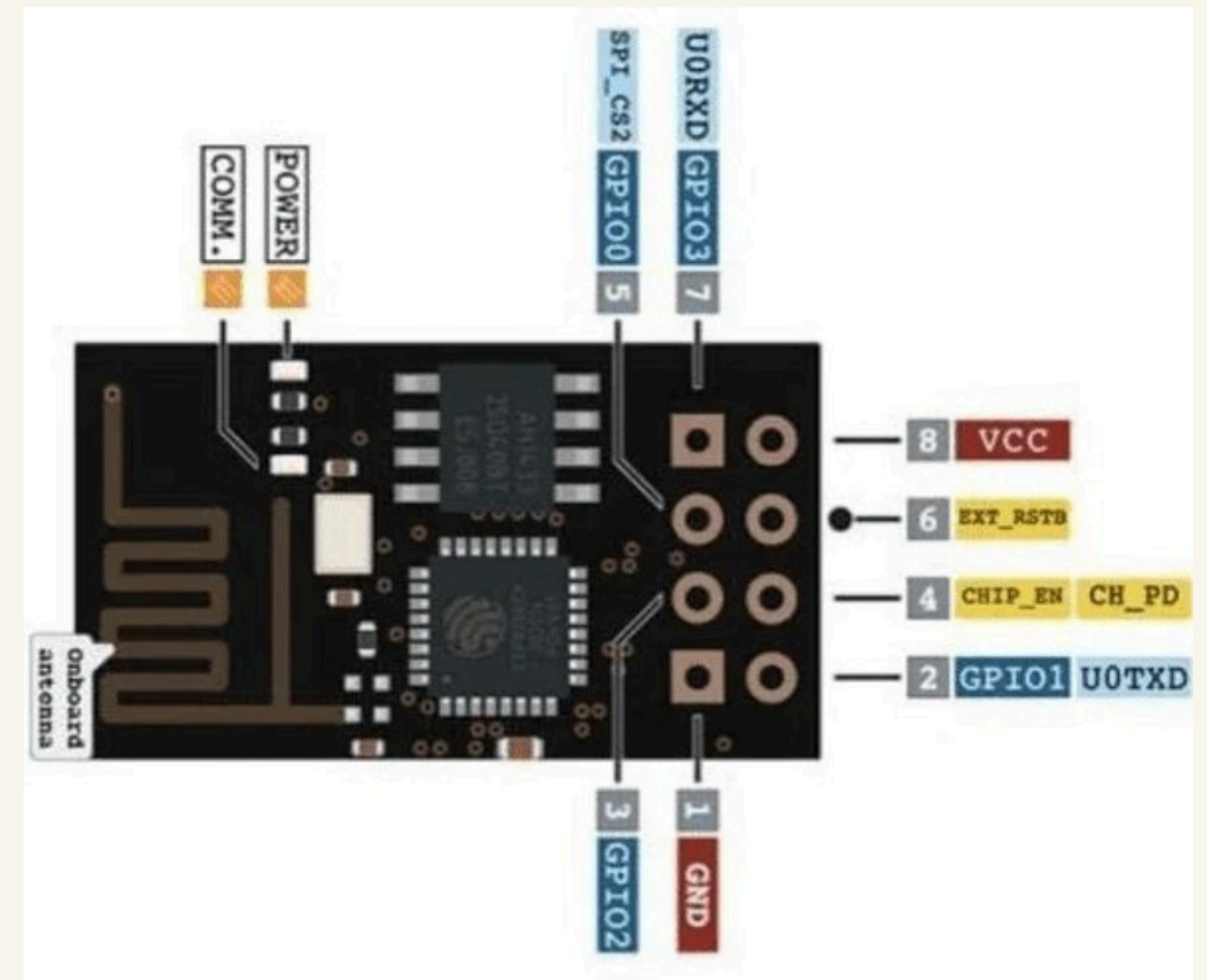
Hardware Features

- Integrated TR switch, balun, LNA, power amplifier
- PLL, regulators, DCXO, power management units
- 32-bit CPU for application processing

Wireless Capabilities

- STBC, 1x1 MIMO, 2x1 MIMO support
- A-MPDU & A-MSDU aggregation
- 0.4ms guard interval for robust transmission

ESP-01 ESP8266 Serial



IOT Device Used

⚡ Low Power and High Performance

- Wake up and transmit packets in $<2\text{ms}$
- Standby power consumption $<1.0\text{mW}$ (DTIM3)
- Can collect real-time data like heart parameters

🔗 Interfaces

- SDIO 1.1/2.0, SPI, UART interfaces
- Easy integration with microcontrollers

💉 Healthcare Applications


- Ideal for IoT healthcare devices
- Can transmit vital signs data wirelessly
- Enables remote patient monitoring solutions

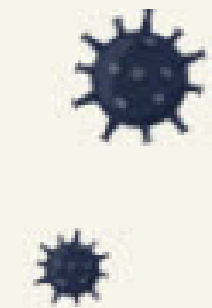
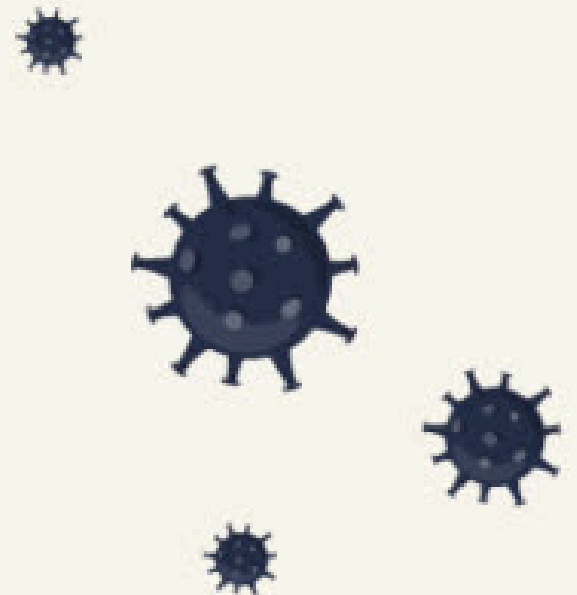


Business Model

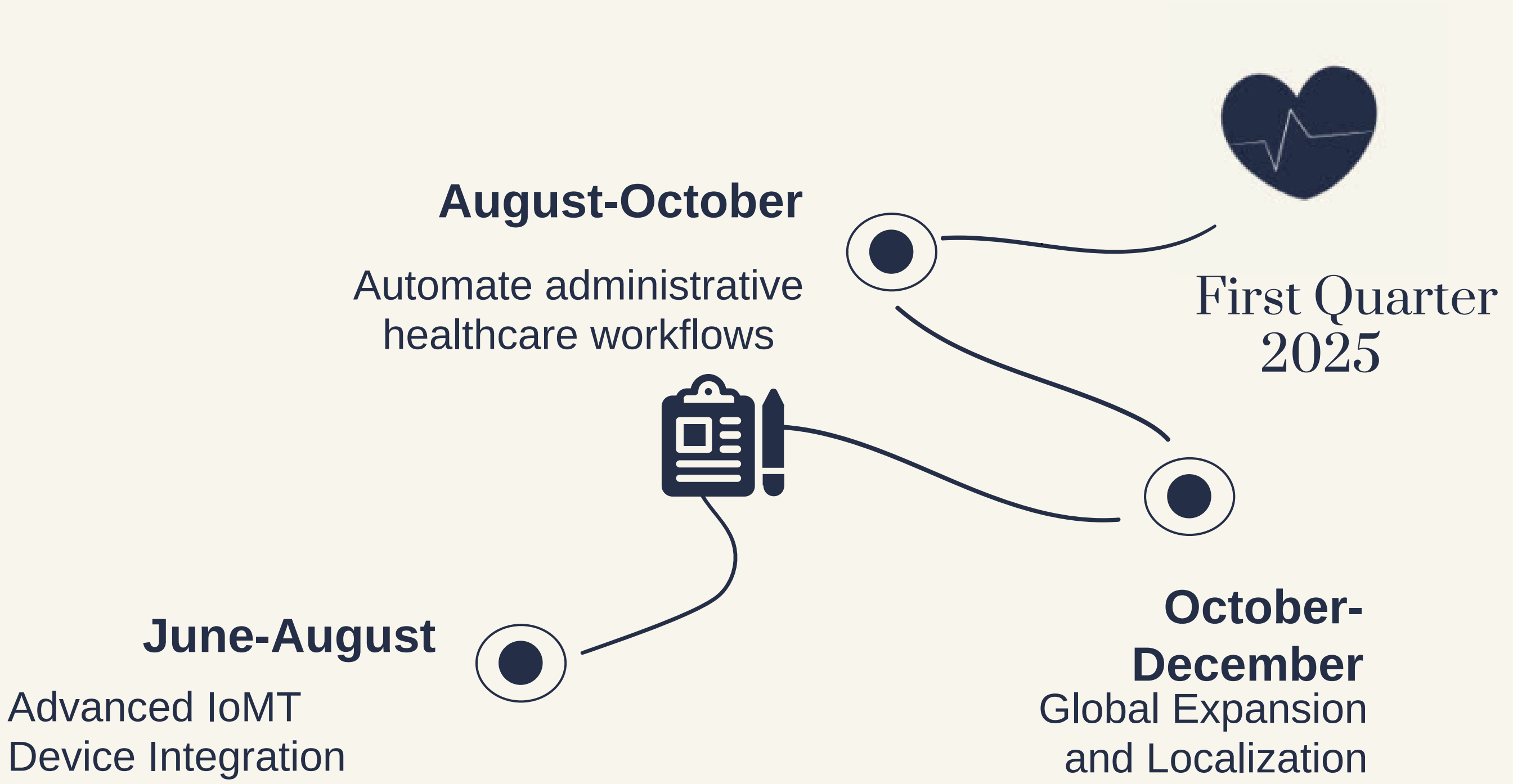
 **Subscription Based Service**

 **Virtual Doctor Consultations**

 **Healthcare Provider Partnerships**



Future Scope





Thank You!

Credits - Slidesgo for animation

