Company Name: WIRELESS TECHNOLOGIES

LOGO: 

Location: Alliance University, Anekal, Bangalore-562106

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Descriptions: Our company is committed to developing affordable and high-quality smart home solutions with seamless wireless connectivity and easy integration with a wide range of smart devices. We also incorporate advanced scheduling for electricity management and security protocols to ensure secure and efficient operation.

Team

1. Mr. VINAY KUMAR H S, CSE at Alliance University [Product Engineer] (kvinayBTECH21@ced.alliance.edu.in 8123044599)
2. Ms. JANHAVI P.G., CSE at Alliance University [Research and Testing] (pjanhaviBTECH22@ced.alliance.edu.in 6361465629)
3. Mr. SHRIRAJ NANDKISHOR PARDESHI, CSE at Alliance University [Electronic Design] (shrirajkun@gmail.com 9075824725)

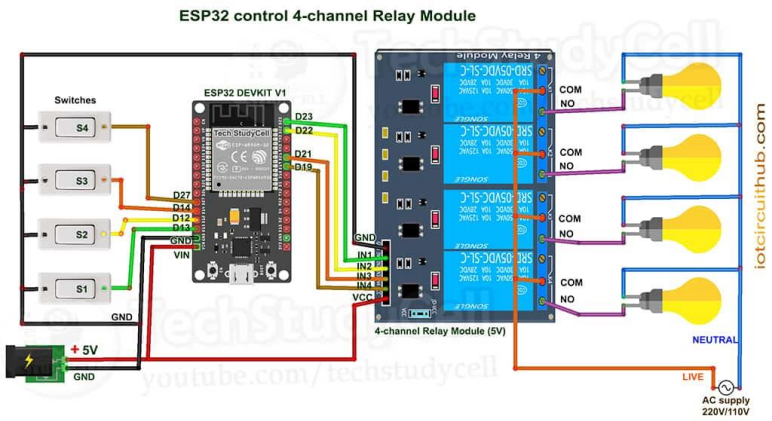
Our Solution/Market product issues

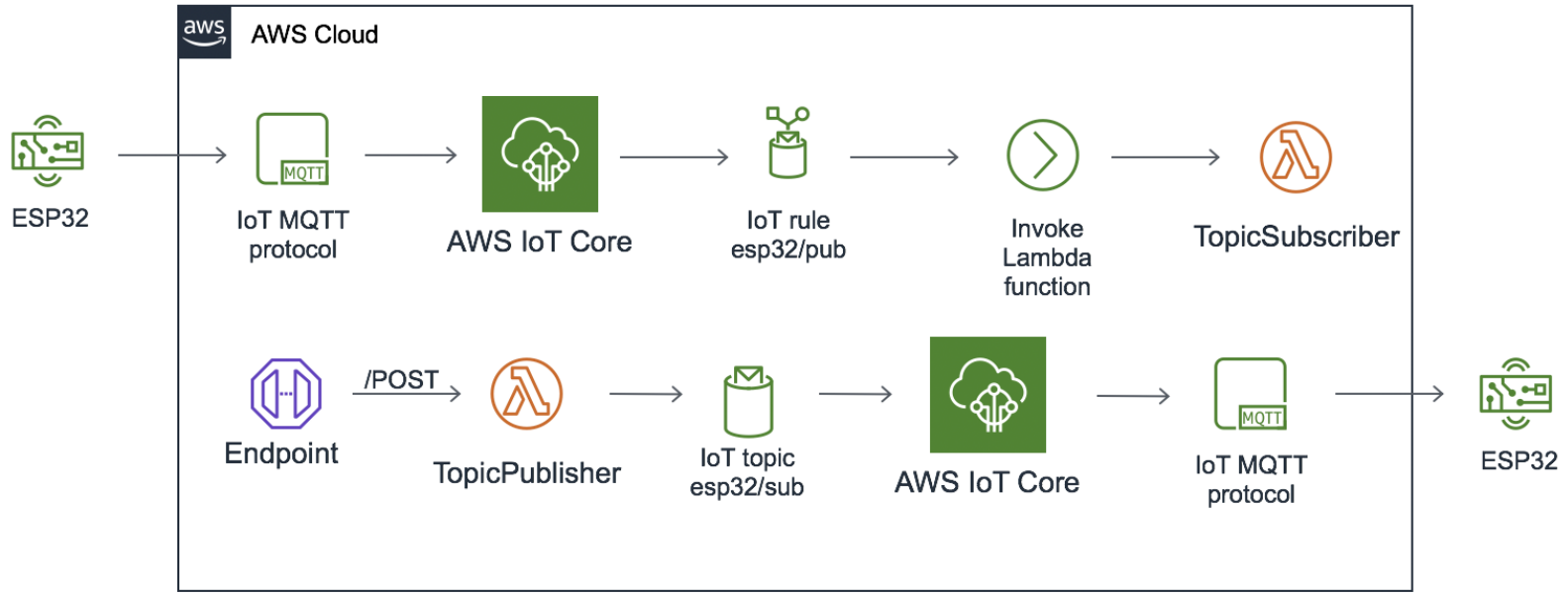
- 1. Integrates multiple smart home devices and systems into one modular platform for easy management.
- 2. Incorporates robust encryption, secure authentication, and tamper detection to safeguard against cyber threats.
- 3. Allows for easy addition of new devices and upgrades, making it a future-proof solution.
- 4. Provides energy consumption insights and automated optimization to reduce energy waste.
- 5. Offers a user-friendly mobile app for remote monitoring and control, simplifying smart home management.6. Optimizes energy consumption, reducing energy bills and environmental impact, making it an eco-friendly solution.

Technology Overview

- The ESP32, with its built-in Wi-Fi and Bluetooth, is a powerful microcontroller for smart home integrations and wireless control of devices like MCBs (Miniature Circuit Breakers). Using the ESP-IDF framework, the ESP32 supports robust security protocols, including secure boot, flash encryption, and secure communication (SSL/TLS), ensuring data integrity and protecting against cyber threats. This makes it an ideal choice for developing secure and efficient smart home solutions, offering seamless device control and integration with strong security measures.

Business model(prototype)





Business Model(production show case)

Our business model also leverages cloud services, particularly through partnerships with AWS, to enhance the functionality and scalability of our smart home platform. Customers will benefit from seamless integration with AWS for cloud storage, data analytics, and secure remote access to their smart home systems. Additionally, our team of certified professionals ensures the development of a robust and user-friendly web interface, providing users with intuitive control and monitoring capabilities. This web interface is a key component of our subscription services, offering advanced features like real-time analytics and personalized energy-saving recommendations. By combining hardware sales, subscription services, and professional expertise, we create a comprehensive and secure smart home solution that caters to various customer needs.

Market Size and Opportunity

Our primary product, the smart MCB (Miniature Circuit Breaker), enhances electrical management with advanced technology and comes with additional smart home switches for expanded capabilities. In India, there are approximately 10 million potential customers interested in smart home technologies. We estimate that 5% of these households, or 500,000, will adopt our smart MCBs. Each unit, including the additional smart home switches, is priced between ₹1,200 and ₹1,600, with an annual subscription for advanced features priced at ₹2,000. This results in an initial market potential of ₹600 to ₹800 crore from hardware sales, with an additional ₹1,000 crore in annual recurring revenue from subscriptions.

In the US and Canada, where the market for smart home solutions is more developed, we plan to target 1 million households by year three. With each smart MCB unit priced around ₹12,000 and a subscription fee of ₹2,400 per year, the market potential would be ₹12,000 crore in hardware sales and ₹2,400 crore in annual recurring revenue. This substantial opportunity reflects the growing demand for comprehensive smart home solutions that include our advanced smart MCBs and additional switches

Current Traction

We have made significant strides with the support of our partner, Transenergy, a leading transformer service company. The Senior Electrical Engineer from Transenergy has been pivotal in advancing our smart MCB (Miniature Circuit Breaker) project, providing essential technical expertise. Their involvement has been crucial in ensuring the success and reliability of our product. For more information about Transenergy, visit their website at transenergy.biz.

Our project also benefits from a certified team of experts specializing in AWS web storage and Espressif technology for the ESP32. This team ensures robust, scalable cloud storage solutions and integrates advanced security protocols for seamless operation. Their expertise in AWS enhances our platform's performance, while their knowledge of Espressif technology ensures optimal functionality and innovation with the ESP32 microcontroller. Additionally, we are supported by Alliance University, where cutting-edge research and academic resources contribute to the project's success.

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ALLIANCE UNIVERSITY

Private University established in Karnataka State by Act No.34 of year 2010
Recognized by the University Grants Commission (UGC), New Delhi

TRANS ENERGY

Current Market Opponents and scopes

The current market for smart MCBs in India is characterized by high costs and limited features. Existing competitors offer smart MCB solutions that are often expensive and lack the comprehensive features needed for an effective smart home integration. Many of these products do not provide the advanced functionalities, such as seamless integration with other smart devices, detailed energy management, and robust security measures, that are essential for a modern smart home system. This gap presents a significant opportunity for our smart MCB, which is designed to be both affordable and feature-rich, addressing the needs of Indian consumers looking for a cost-effective and fully integrated smart home solution.

Financials Current and Projections

- NA

Fundings

Currently, our funding is sourced from two primary avenues: recognition and support from Alliance University for our research initiatives, and personal investments from our dedicated team. The university's acknowledgment provides essential financial backing for our research and development efforts. Additionally, our team members have invested their own resources to support the non-profit initiation of this company. These funds have been crucial in advancing our smart MCB (Miniature Circuit Breaker) project and laying a strong foundation for future growth. As we move forward, we are actively seeking additional funding to expand our operations and bring our innovative solutions to a broader market.

Current Equity Structure, Fundraising History and Investors

NA

Exit Options

1. Acquisition: Our company could be an attractive acquisition target for larger firms in the technology or electronics sectors. Transenergy’s involvement positions us well to be acquired by companies seeking to enhance their smart home product lines or integrate advanced MCB technology. Successful acquisitions in similar fields include Siemens' acquisition of smart home technology firms, highlighting the potential for substantial returns through acquisition.
2. Strategic Partnership: Forming strategic partnerships with industry leaders could provide liquidity and value realization for investors. For Transenergy, aligning with major players in the smart home or electrical industries can integrate our technology into broader ecosystems, benefiting both parties and offering an exit opportunity through partnership deals.
3. Initial Public Offering (IPO): As our company scales and demonstrates significant market traction, an IPO could be a viable exit strategy. This would not only provide liquidity for investors but also open doors to capital for further growth. Transenergy’s support and the robust market potential for smart MCBs could position us for a successful IPO, similar to how SmartThings leveraged its technology in a successful public offering after acquisition by Samsung.

Thank You

Please, assure us about the rest of the details are being worked on currently