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HACK & BUILD INNOVATIVE SOLUTIONS

# HackAlthon

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# Describe The Problem You Are Solving

## AI Powered Customer Service

Electric vehicles in India have surged in the last five years, but the sector still has a long way to go before reaching parity with ICE vehicles. Though the Indian government's policies, rising fuel prices and greater awareness among the customers has given the nascent sector a much needed boost, EVs are still limited to affluent few or fleet owners.



## Your Proposed Solution

ElectriGo is a one-stop solution for every EV present in the market. It provides the ability to locate nearby both AC/DC private and public charging stations that are fetched using APIs provided by the government. The users can book the charging docks for a specific period of time before they reach there. Furthermore, the application offers emergency services like calling a battery swap van. Once called, users can effortlessly replace the battery of their electric vehicle, ensuring a seamless experience. Our application involves rigorous monitoring and maintaining the SOC of the EV. Using our **ML** algorithms, with high accuracy, we predict SOC which is used to calculate range estimation, battery health, etc.

We've also pinpointed a segment of significant stakeholders in the Indian EV market which is the rickshaw owners who lack Android devices. Specifically, there's a notable group of over 1.5 million + battery-powered EV rickshaws. We have finally decided to create an **AI powered** multilingual chatbot that will provide support about the nearest charging station, open charging slots, etc. This chatbot would have a very simple UI and it enhances accessibility to almost all the left-out audience.

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# Tech Stack Your Are Using

Technologies used Include: Machine Learning, Python, Java, Android Studio, Android App-development, Git, Github, Adobe-Creative suite, UI/UX, Figma



## How Your Solution Is Unique?

ElectriGo stands out in the market due to its comprehensive and holistic approach to addressing EV adoption challenges in India. Unlike other solutions that might focus solely on charging station location, ElectriGo offers a multifaceted platform. It integrates real-time charging station information, advanced booking options, emergency battery services, and accurate battery SOC prediction through machine learning.

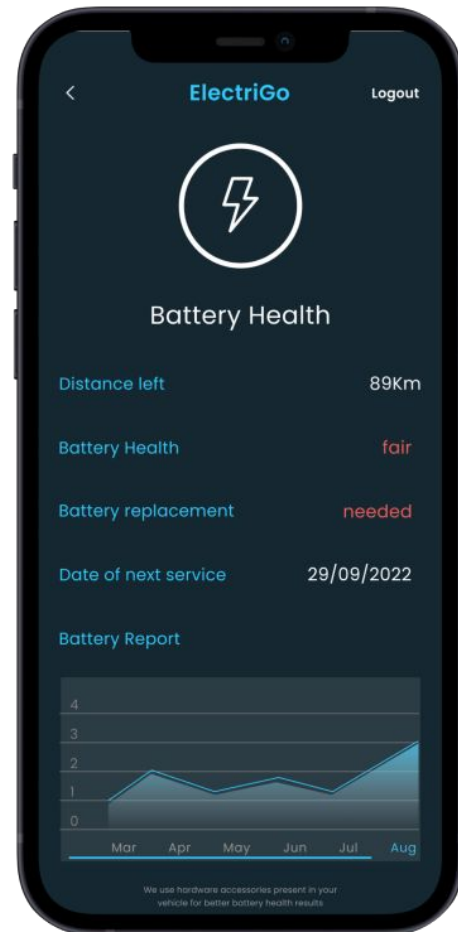
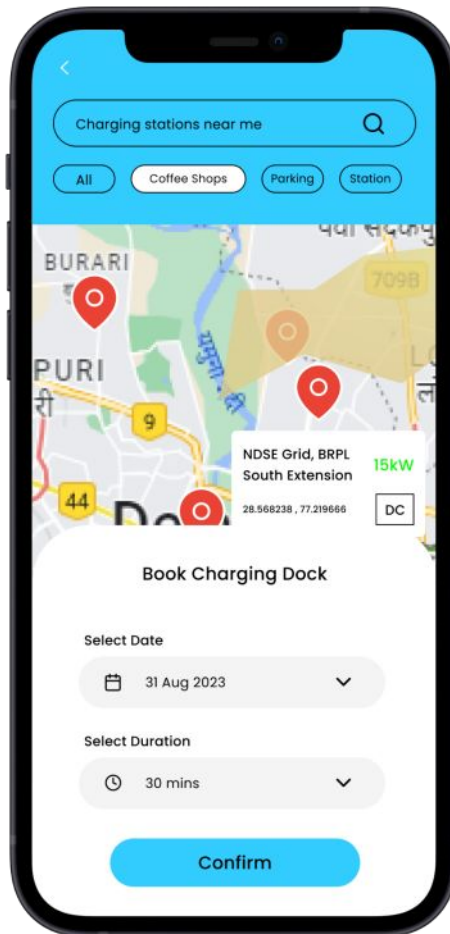
Furthermore, ElectriGo's commitment to inclusivity is unique. Its multilingual chatbot and simple UI cater specifically to battery-powered rickshaw owners and other tech-limited users, ensuring a wider audience benefits from the EV ecosystem. This user-centered approach sets ElectriGo apart, enabling a broader demographic to embrace electric vehicles with confidence and ease.



## Any Other Relevant Information You Want To Share

During our ideation, our team sat together and came up with a few iterations of how the application shall look like. Here are a few prototypes of the same.

**Prototypes on next page**



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# Thank you

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