

Building an IoT application on Windows and React Native platforms to control smart switches

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Abstract: In the context of the Fourth Industrial Revolution, the application of IoT in smart home management systems is becoming increasingly important. This project focuses on building an IoT application on the Windows and React Native platforms to control smart switches, aiming to optimize energy efficiency and enhance user experience. Through research, design, and practical implementation, the project seeks to provide a comprehensive solution that meets the automated management needs of in-home electrical systems. The expected results will bring significant benefits in terms of energy savings as well as improved convenience.

Keywords: IoT, Windows, React Native, smart switch, energy management