

Design of a door controller using a fingerprint sensor for Smarthome.

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Abstract: This topic aims to design and implement a smart home automation system using fingerprint sensor technology to control household devices. The practical context requires improving management efficiency and security for living spaces, leading to the selection of this topic to address the issue. The objective is to build a system capable of authenticating users via fingerprints to automatically open/close doors or related devices. The research methodology includes both theoretical and experimental approaches, integrating fingerprint sensors into a smart home application. The significance of this topic lies not only in its practical application but also in its contribution to the development of fingerprint sensor technology within smart home environments.

Keywords: Fingerprint sensor, Smart home, Door control, Home security