

Your Day, Reflected: A Smart Mirror Solution

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Abstract: *Reflectech is a smart mirror system designed to enhance daily productivity through an interactive, customizable interface that combines traditional mirror functionality with real-time information display. The project focuses on integrating digital calendars and widgets to provide users with real-time updates on schedules, weather, and news. Built using user-centered design principles, the mirror offers intuitive interaction through both touch and voice commands. The system is developed using a Raspberry Pi, open-source software like MagicMirror², and APIs for data synchronization. The mirror stores data locally to ensure privacy and faster performance. The abstract emphasizes technical challenges, such as voice assistant integration and interface optimization, and how overcoming these challenges informs future smart mirror iterations. Ultimately, Reflectech seeks to become a key component of modern smart homes, enhancing connectivity and supporting seamless daily routines*

Keywords: Smart Mirror Calendar Integration, Widget Customization, Real-Time Syncing, Weather Updates, News Feeds

