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| **Focus Areas** | **Desired Future State** | **Current State** | **Identified Gap** | **Action Plan** |
| **Security Features** | To have an AI-powered security system with real-time threat detection and automated response. | The system has basic motion sensors and camera surveillance but lacks AI threat detection and automation. | Lack of AI-driven detection and response automation. | - Integrate AI-based threat recognition software.  - Implement automated alerts & response mechanisms. |
| **User Accessibility** | Users can control and monitor security remotely with an intuitive mobile app | Users can monitor security via an app, but remote access features are limited. | Limited remote access and lack of full control over security settings. | - Upgrade mobile app with full remote control features.  - Enhance two-factor authentication for security. |
| **Integration with Smart Devices** | Seamless integration with all smart home devices (lights, locks, alarms, etc.). | Limited compatibility with third-party smart home products. | Incompatibility with various smart home ecosystems. | - Develop API integrations for broader compatibility.  - Partner with major smart home brands. |
| **Reliability & Uptime** | System uptime of 99.9% with backup connectivity. | Occasional downtime due to network dependency. | Downtime risks due to internet outages. | - Implement cloud backup and offline mode.  - Improve local storage for security footage. |

**Gap Analysis for a Smart Home Security System**

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