
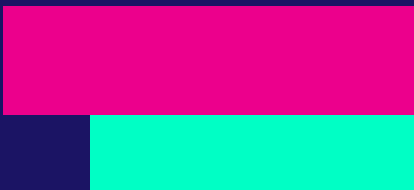


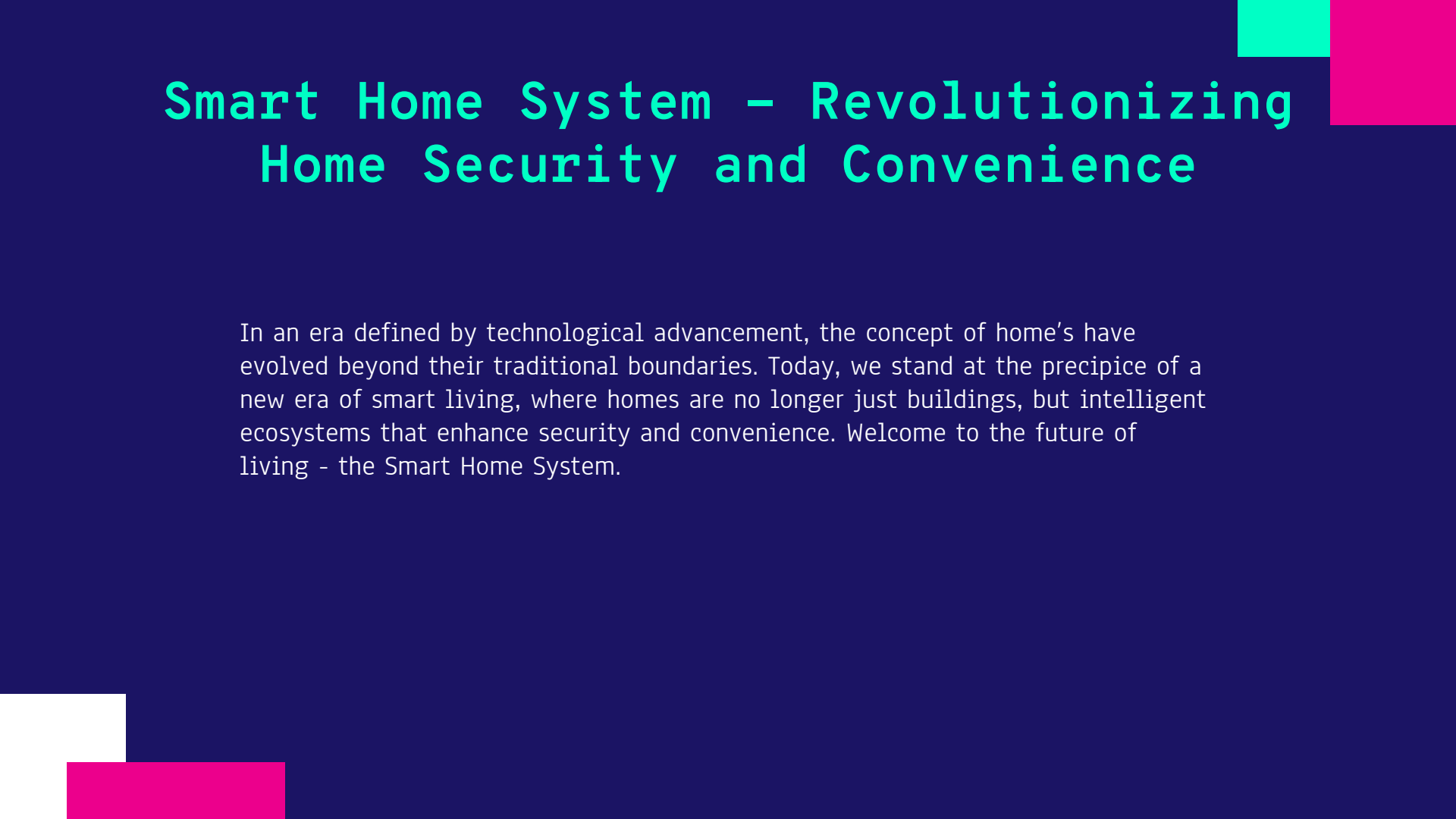


# Smart Home System



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# Smart Home System – Revolutionizing Home Security and Convenience

In an era defined by technological advancement, the concept of home's have evolved beyond their traditional boundaries. Today, we stand at the precipice of a new era of smart living, where homes are no longer just buildings, but intelligent ecosystems that enhance security and convenience. Welcome to the future of living - the Smart Home System.

# The Domain – Smart Home Technology

The realm of smart home technology is a captivating intersection of innovation, convenience, and security. It encompasses a wide range of interconnected devices and systems designed to make our lives easier and safer. At its core, this technology empowers us to control and monitor various aspects of our homes remotely.

# The Necessity – Why Smart Homes?

- Security: With rising concerns about home security, a Smart Home System provides advanced intrusion detection and access control, using cutting-edge technologies such as cameras, sensors, RFID tags, and more.
- Convenience: Imagine a home that adapts to your preferences, turning on lights, adjusting the thermostat, and even brewing your morning coffee as you wake up - all automatically.
- Energy Efficiency: Smart homes optimize energy consumption, reducing your carbon footprint and saving you money on utility bills.

# Functional Key Features – Making Life Smarter

## Access Control



Know who enters your home and when

## Remote Controller



Manage your smart home from your smartphone

## Lock Control



Secure entry points to your home

## “Live-in-look” Control



Timers to control lights, A/C, TV, sound, etc.

# More Key Features – Making Life Smarter

## Status Report



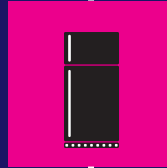
Get real-time updates  
on your home's  
security and status

## Voice Control



Voice assistant  
integration for  
hands-free control

## Smart Appliances



Control smart  
appliances for added  
convenience

## Water Leak Detection



Sensors that detect  
water leaks. Shut off  
water to prevent  
damage

# More Key Features – Making Life Smarter

## Geofencing



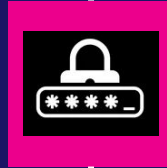
Based on the user's location the system should be able to disarm and arm accordingly

## Event Logging



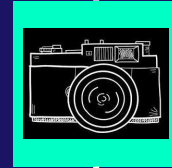
There should be a log of all security events including past alerts, system status (arming and disarming of system)

## User Authentication



Users who are utilizing the system to change specific settings or controls should be password protected

## Surveillance

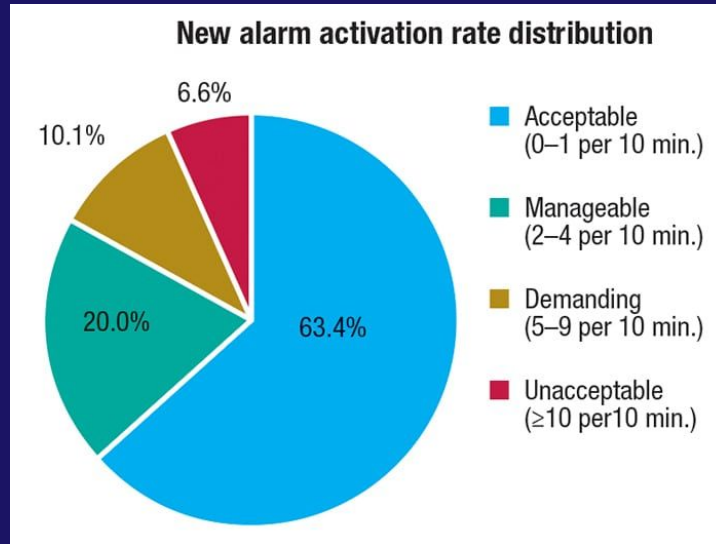


Users can see footage of different areas of their property with streaming and playback

# Example of a Non-functional feature

Performance - Related to Response Time

- The system should state what the maximum response time is for alarm activation and other server requests.





# Non-functional requirements:

## Security and Encryption standards

- The system should state what the maximum response time is for alarm activation and other server requests

# Potential Challenges

- Many preventative measures to consider for security and privacy for users
- Understanding how to connect the system in a user's home to our server

# Potential Strategies

1. **Prevention** (Primary Prevention)

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to add more :)