

APPLIED 101

PROJECT 1: DESIGNING A SMART HOME



The diagram illustrates the architecture of a smart home system. It is divided into several main functional areas:

- Smart Home Hub:** The central component that manages and coordinates all other devices. It is connected to a local network and local storage.
- IoT Devices:** A collection of smart devices including a smart thermostat, smart lock, smart lights, smart camera, and smart plug, all connected to the hub.
- Cloud Services:** Services for cloud storage, cloud sync, and remote access, enabling data to be stored and accessed from anywhere.
- User Interface:** The way users interact with the system, including a mobile app, a web portal, and a voice assistant.

The flow of data and control is bidirectional, allowing users to manage their smart home remotely and receive status updates from their devices.