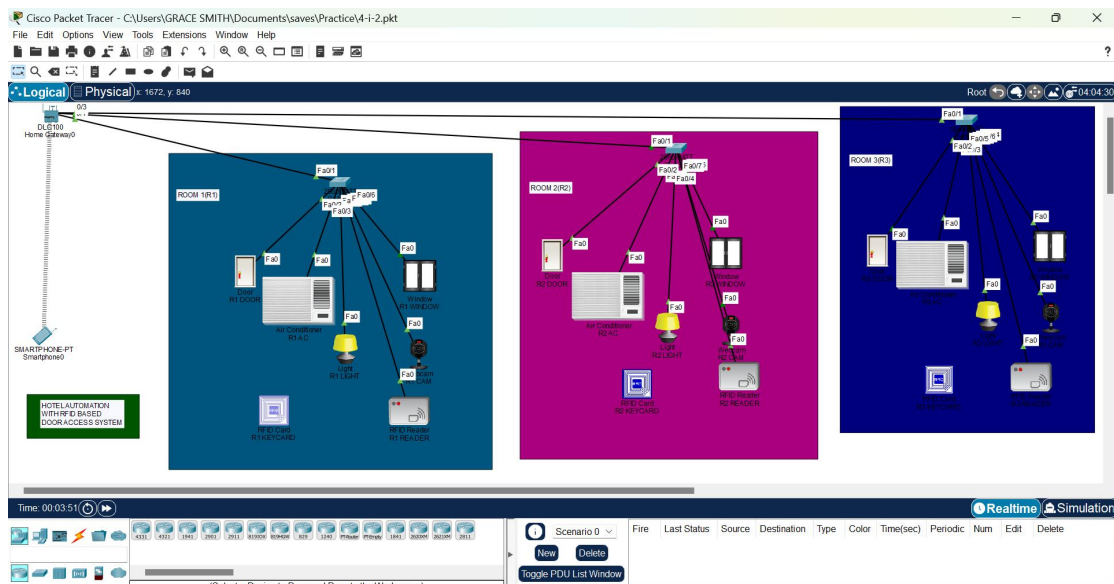
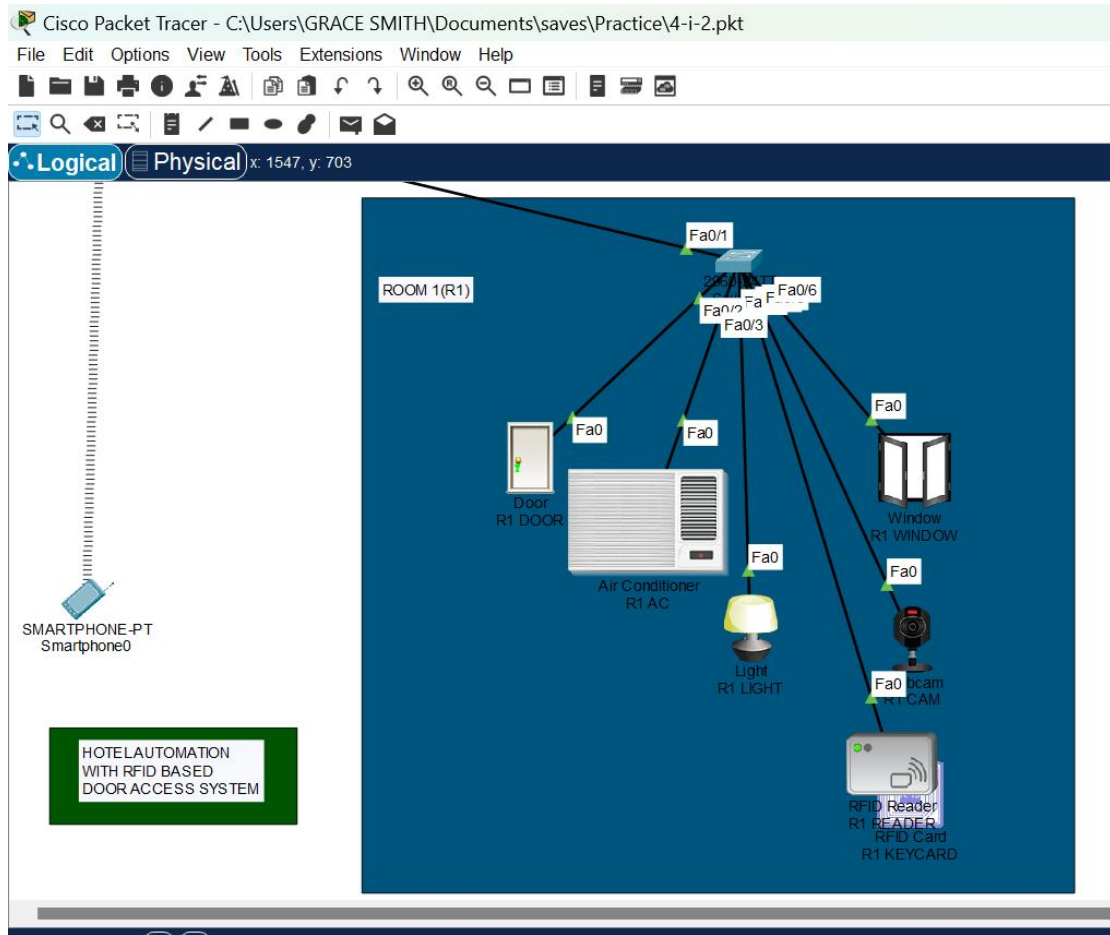


NETWORKING (IoT) PROJECT-SMITH GRACE

HOTEL AUTOMATION WITH RFID BASED DOOR ACCESS SYSTEM



An **RFID-based door access system** is a modern and efficient method of securing physical spaces using **Radio Frequency Identification (RFID)** technology. It provides a secure, contactless, and automated way of granting or denying access to buildings, rooms, or restricted zones. It is cost effective, it can be integrated with other systems, it can be managed remotely and it is convenient. It is also difficult to clone and helps with auditing and investigation.



This hotel RFID system is custom built to enable ease of access and convenience for both staff and residents of the hotel. As soon as the unique RFID card is scanned, it triggers a chain of events. The door opens, the windows open slightly, the lights come on, the air conditioning comes on and the webcams turn on as well. Not only does it add a touch of sophistication but it is also tailored for an improved and wholesome experience for the resident.

Key Takeaways

1. Understanding IoT Device Communication
2. RFID Authentication Logic
3. IoT Automation Rules
4. Security Concepts
5. Device Configuration Skills
6. Integration with Other IoT Devices
7. Simulation vs. Real World Thinking