Security System Features to Design and Implement

1. System is able to use available 3rd party Open/Close Door Sensors, Open/Close Window Sensors, Window Impact Sensors, Fire Sensors and Smoke Sensors and any other sensors the client wants implemented into the Security System
2. System uses a suite of sensors to monitor for Security Violations, Security Alarms and Emergency Events. The system monitors these sensors and signals alarms if any of these sensors are tripped.
3. System is card based, using Employee Card Readers to monitor movement of authorized personnel between Security Zones and entry/exit of the Building. The system logs this data to the system Database.
4. System uses Employee ID/Security ID to unlock Security Doors using an Employee Card Reader located on the Security Door. This checks the employee(s) Permissions against associated Security Level within the Security Zone. If authorized the Security Door will unlock, if not a Security Violation will trigger.
5. System gives Security Personnel control of the system via a Control Center(s) using readily available computers, Screens, Keyboard(s) and Mouse(Mice).
6. Emergency Events are logged automatically in the system, with an option to print the logs in active real time for physical record keeping (Note: this requires a Printer to be in the Control Center(s))
7. System monitors Security Patrols through a Checkpoint system using Checkpoint Card Readers, and logs these patrols. In addition the system will alert if an anomaly occurs. These anomalies are based on patrol times, if a check-in is late by a small margin the system will signal a Security Violation. If the check-in is late by a larger margin the system will signal a Security Alarm. The margins for these are adjustable within the system to adapt the system for larger or smaller locations.
8. The system is Security Zone, Permissions, and Security Level based
9. The system is able to have Security Zones of varying Security Levels, with Permissions being given to the appropriate personnel. When an unauthorized person(s) attempts to enter a Security Zone that they do not have the necessary Permissions for, this will trigger a Security Violation.
10. The system has emergency functions to assist in facilitating an Emergency Evacuation or the resolution of an Emergency Event. Emergency Events can occur from a sensor trip such as a Fire Sensor or Smoke Sensor. In addition these can be triggered in the Control Center(s) when an Emergency Event is detected not based on sensors, such as a medical emergency.
11. During an Emergency Event the system is able to push information to local first responders such as Police, Fire and EMT.
12. The system is controlled via a simple Screen, Keyboard and Mouse interface, located within the Control Center(s).
13. The system is able to have multiple Control Center(s) to monitor specific Security Zones. Note the number of Control Center(s) should be based on location size, requirements and available resources.

14. All security data and logs is stored in a secure Database, preferably 1 on site and an off site back up
15. Security personnel can trigger a lockdown, creating an Enclosing Zone within the Building or relevant Security Zone to assist in the capture of a perpetrator, or contain a Break-in until first responders can arrive. These Enclosing Zones should be able to be expanded, contracted and modified as the situation requires
16. System has a Master Key that will allow unfettered access within the Building.
17. Personnel in the Control Center(s) can unlock Door Locks to assist in free movement during an Emergency Event. This is to prevent a time delay in first responders being able to get to the point of friction.

Notes: 'system' is used here within to refer the the specific term from the data dictionary 'Security System'

Terms from the Data Dictionary are highlighted to assist in continuity of ideas and concepts.