Doctor-R-Us Automation

Your organization (A small 50 doctor clinic) is having problems with the old pen and paper form of scheduling. You have convinced the office manager that computerizing the records would reduce the number of missed appointments, overbooking, and scheduling errors. Your reward for being such a technology advocate is that now you are in charge of the project to computerize the system. Your task is to design a system which meets the following requirements:

- The system must keep track of all clients names, addresses (2 address lines), city, state, zip code,
phone, fax, cell, and email address.
- The system must be able to store multiple appointments for each patient. An appointment
consists of date, time, doctor, appointment length, and reason for visit.
- The system must be able to store patient check-in time
- The system must be able to track check-out time
- The system must track when the patient skips an appointment
- The system must track when the patient cancels an appointment
- The system must be able to store the doctors' name, emergency number(s), and specialties
- The system must be able to store the Insurance information of each patient
- The system must store user information for security implementation

This may not be a complete set of requirements needed for the turn-ins. Please ask as questions come up during analysis. You will need to do some requirements gathering to get a complete set of specifications.

Provide the following turn-ins:

1. Process model being used and why.
2. Requirements List/Specifications Document
3. A set of requirements models including, at a minimum:
    - Three Use Cases (Diagrams and Descriptive)
    - Class Diagram
4. Define an Architectural Style
5. Architectural Context Diagram
6. Testing Plan
7. Security Plan
8. Executive Summary
    - In addition to these basic requirements, an executive summary describing the methodologies used to control the progress and quality of the deliverables, as well as a discussion of any lessons learned.