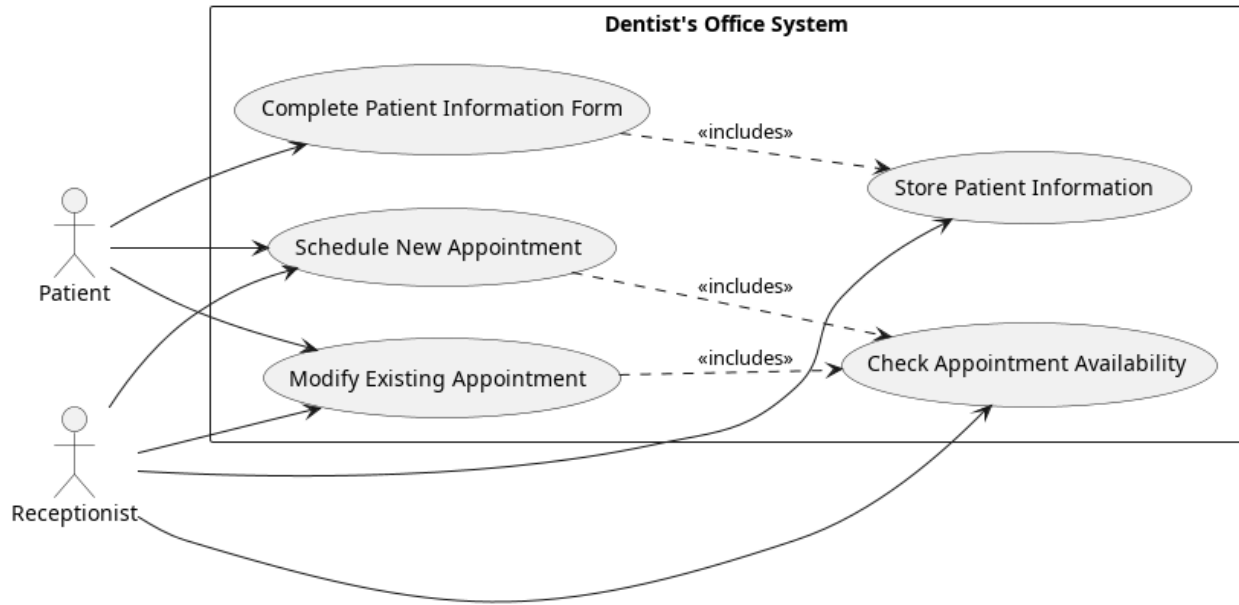
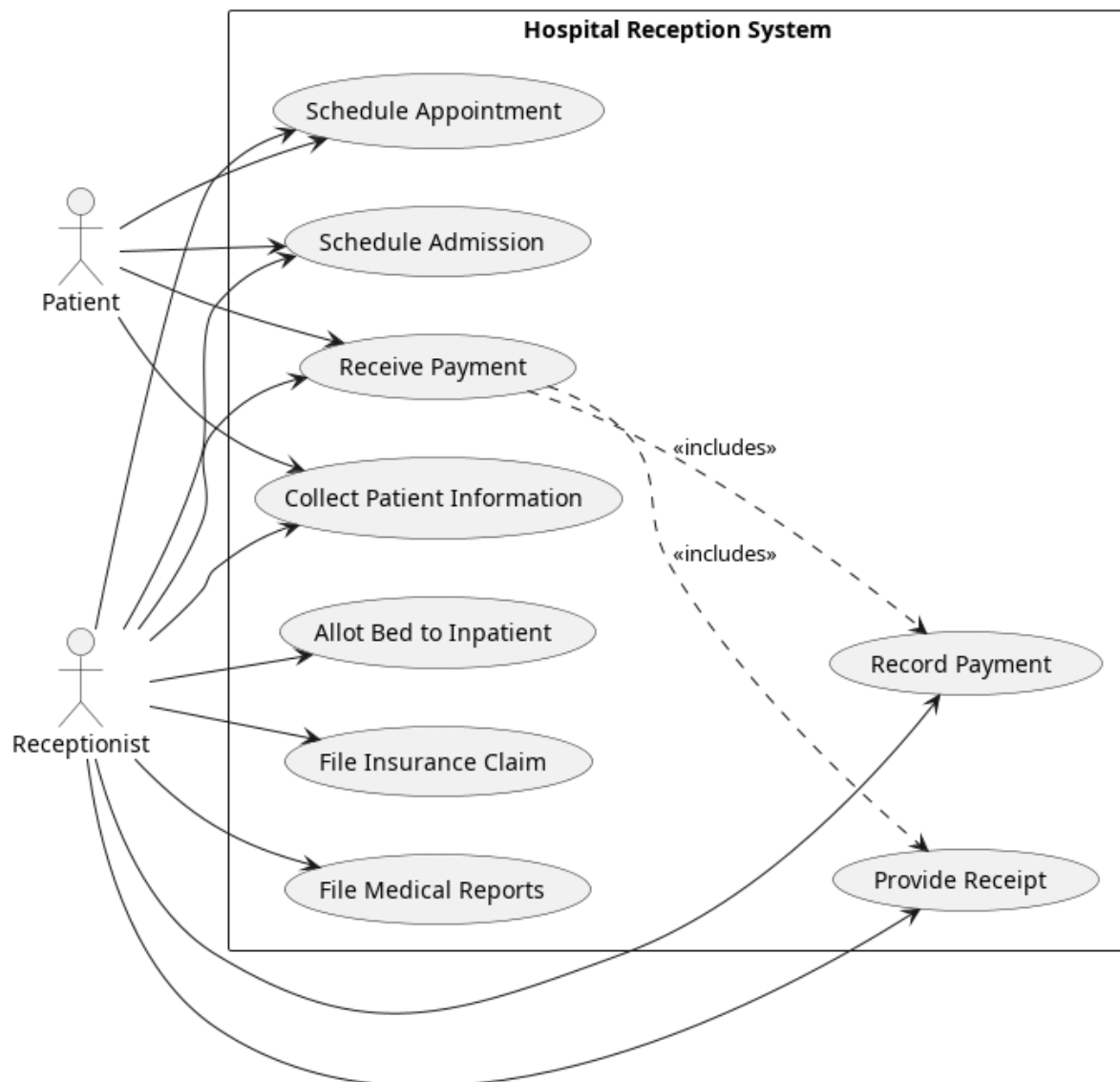


1. Draw a use case diagram for the following Dentist's office system. Whenever new patients are seen for the first time, they complete a patient information form that asks their name, address, phone number, and brief medical history, which are stored in the patient information file. When a patient calls to schedule a new appointment or change an existing appointment, the receptionist checks the appointment file for an available time. Once a good time is found for the patient, the appointment is scheduled.



2. Draw a use case diagram for the following scenario. Hospital Reception subsystem or module supports some of the many job duties of hospital receptionist. Receptionist schedule patient's appointments and admission to the hospital, collects information from patient upon patient's arrival and/or by phone. For the patient that will stay in the hospital ("inpatient") she or he should have a bed allotted in a ward. Receptionists might also receive patient's payments, record them in a database and provide receipts, file insurance claims and medical reports.



3. Create a use case diagram for a university library borrowing system (do not worry about catalogue searching, etc.). The system will record the books owned by the library and will record who has borrowed which books. Before someone can borrow a book, he or she must show a valid ID card, which is checked against the student database maintained by the registrar's office (for student borrowers), the faculty/staff database maintained by the personal office (for faculty/staff borrower), or against the library's own guest database (for individuals issued a guest card by the library) to ensure that it is still valid. The system must also check to ensure that the borrower does not have any overdue books or unpaid fines before he or she can borrow another book. Every Monday, the library prints and mails to those people with overdue books and postcards. If a book is overdue by more than two weeks, a fine will be imposed and a librarian will telephone the borrower to remind him or her to return the book(s). Sometimes books are lost or are returned in damaged condition. The manager must remove them from the database and will sometimes impose a fine on the borrower.

