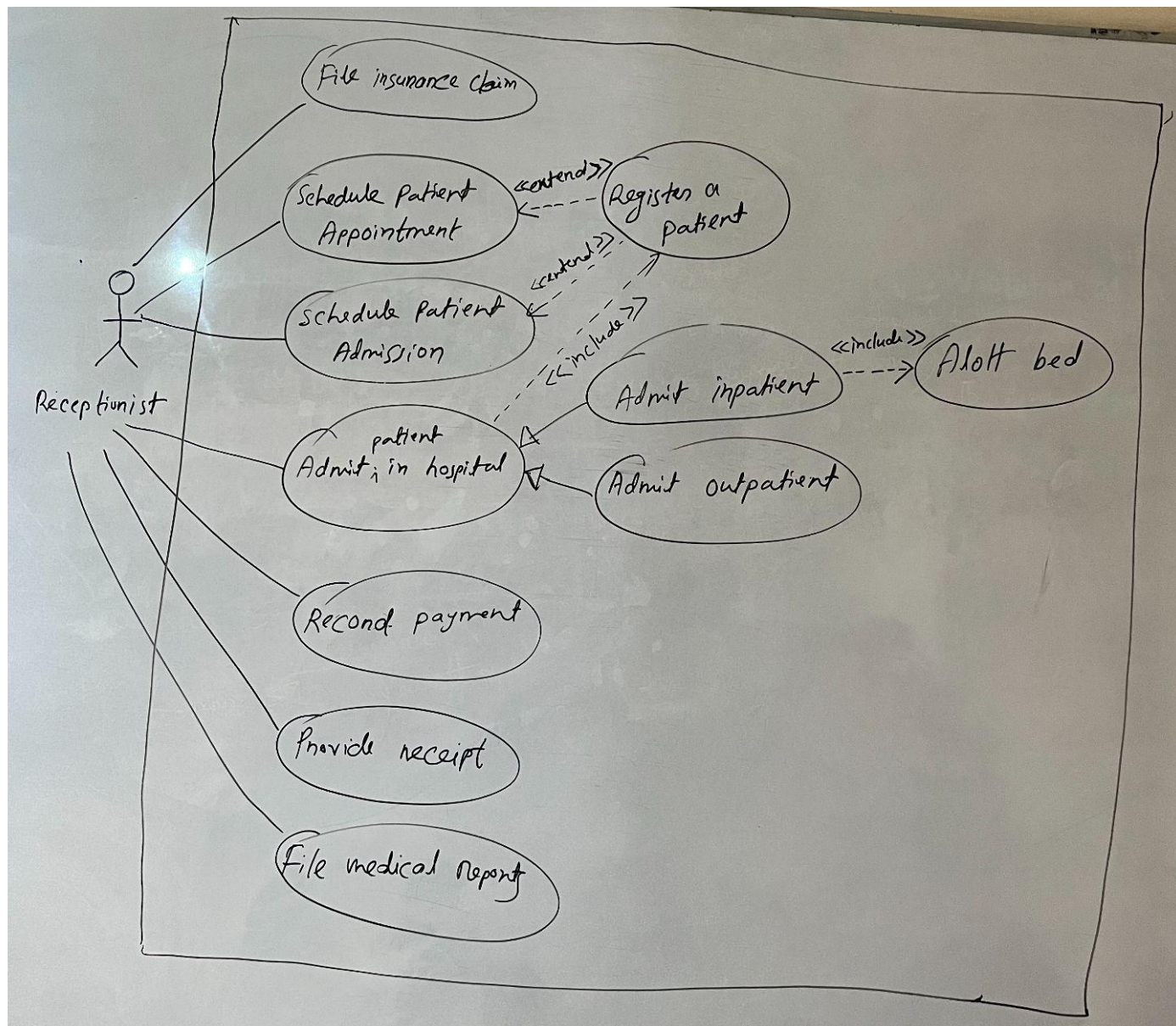


Hospital Management System is a large system including several subsystems or modules providing variety of functions. **UML use case diagram example** below shows actor and use cases for a hospital's reception. Hospital Reception subsystem or module supports some of the many job duties of hospital receptionist. Receptionist schedules 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.



### Draw a UML Activity Diagram based on the following scenario.

King T'challa Institute of Science and Technology is receiving applications for Master's and Ph.D. degrees but, to study there, a student must acquire a visa to enter Wakanda. To obtain a visa the student has to apply through the embassy website. Firstly, the student has to go to apply for a visa section of the website. After that, the student has to submit an offer letter from the university. If the offer letter is valid then the student will be allowed to book an appointment slot. After an appointment slot is booked depending on what kind of degree the student intends to pursue he/she will be sent to two different web portals. If the student is a Master's degree candidate then firstly the student will be asked to upload his/her financial documents. Secondly, the student will be asked to upload a motivation letter. Thirdly, the student will be asked to submit two recommendation letters. After that, the student will be redirected to a page that will have three fields to upload educational documents, a scanned copy of passport data page, and language test report. After submitting the form the student will be given a token number and an appointment date, after that the student will be able to log out. If the student is a Ph.D. applicant then firstly, the portal will ask whether he/she is a full-time Ph.D. student or not. If the student is a full-time Ph.D. student then he/she won't need financial documents, the system will check Ph.D. offer letter and then educational papers. On the other hand, if the student is a part-time student then he/she will either need financial papers or a job contract. The system will check financial papers or job contract and then move on to check educational papers. After these are done, both types of students will be asked to upload a document containing research problems and goals and then, the student will be asked to submit two recent research publications he/she made. Lastly, the applicant will receive a token number and an appointment date and after that, the applicant will be able to log out of the portal.

