

1. Construct an activity diagram with swim lane for the following scenario.

*This describes the business process to publish an academic paper. The author submits a paper to an editor of a journal. The editor first checks whether the paper fit the theme of the journal. If not, the editor rejects the paper. Otherwise, the editor assigns the paper to a number of reviewers. The reviewers review the paper, and write a review. The review is sent to the editor. The editor then assesses the quality of the paper with the help of reviewers' comments. If the quality is good, the paper will be accepted, and the author notified. Furthermore, the paper is forwarded to the publisher for publication. If the quality is bad, the editor rejects the paper.*

2. Construct a use case diagram then create 2 activity diagrams that you think can describe the big part of the system following this scenario.

*After a customer checks in for a flight, he/she joins a line to get through security check. Then he/she goes through the security check. If there are any problems, he/she has to go through the security check again, until everything clears. The customer will go to the gate and wait for boarding. When the boarding is called, he/she will board the plane. It may happen that the flight is cancelled. In this case, the customer will need to check in for a new flight at the gate. If there is no later plane or there are no seats available, the customer will leave the airport. After all the customers board the plane, the plane will take off.*