

To Understand Activity Diagram

Blood Bank Management System

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Aim: To understand Activity diagram

THEORY

Activity diagrams are used for modeling the logic captured by a single use case or usage scenario, or for modeling the detailed logic of a business rule.

UML activity diagrams are the object-oriented equivalent of flow charts and data flow diagrams (DFDs) from structured development.

Basic notation :

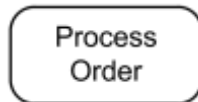
Initial node.-The filled in circle is the starting point of the diagram.



Activity final node- The filled circle with a border is the ending point. An activity diagram can have zero or more activity final nodes.

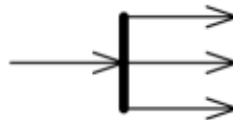


Activity- The rounded rectangles represent activities that occur. An activity may be physical, such as Inspect Forms, or electronic, such as Display Create Student Screen.

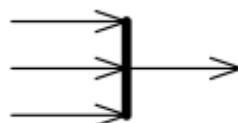


Flow/edge- The arrows on the diagram.

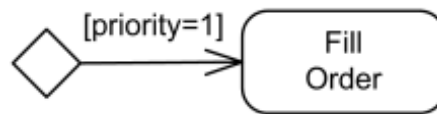
Fork- This denotes the beginning of parallel activity. A black bar with one flow going into it and several leaving it.



Join- A black bar with several flows entering it and one leaving it. All flows going into the join must reach it before processing may continue. This denotes the end of parallel processing.

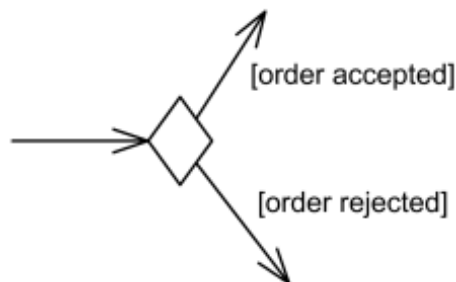


Condition- Text such as [Incorrect Form] on a flow, defining a guard which must evaluate to true in order to traverse the node.

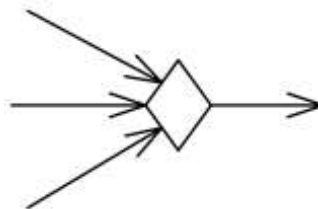


Fill Order when priority is 1

Decision- A diamond with one flow entering and several leaving. The flows leaving include conditions although some modelers will not indicate the conditions if it is obvious.



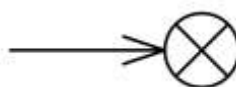
Merge- A diamond with several flows entering and one leaving. The implication is that one or more incoming flows must reach this point until processing continues, based on any guards on the outgoing flow.

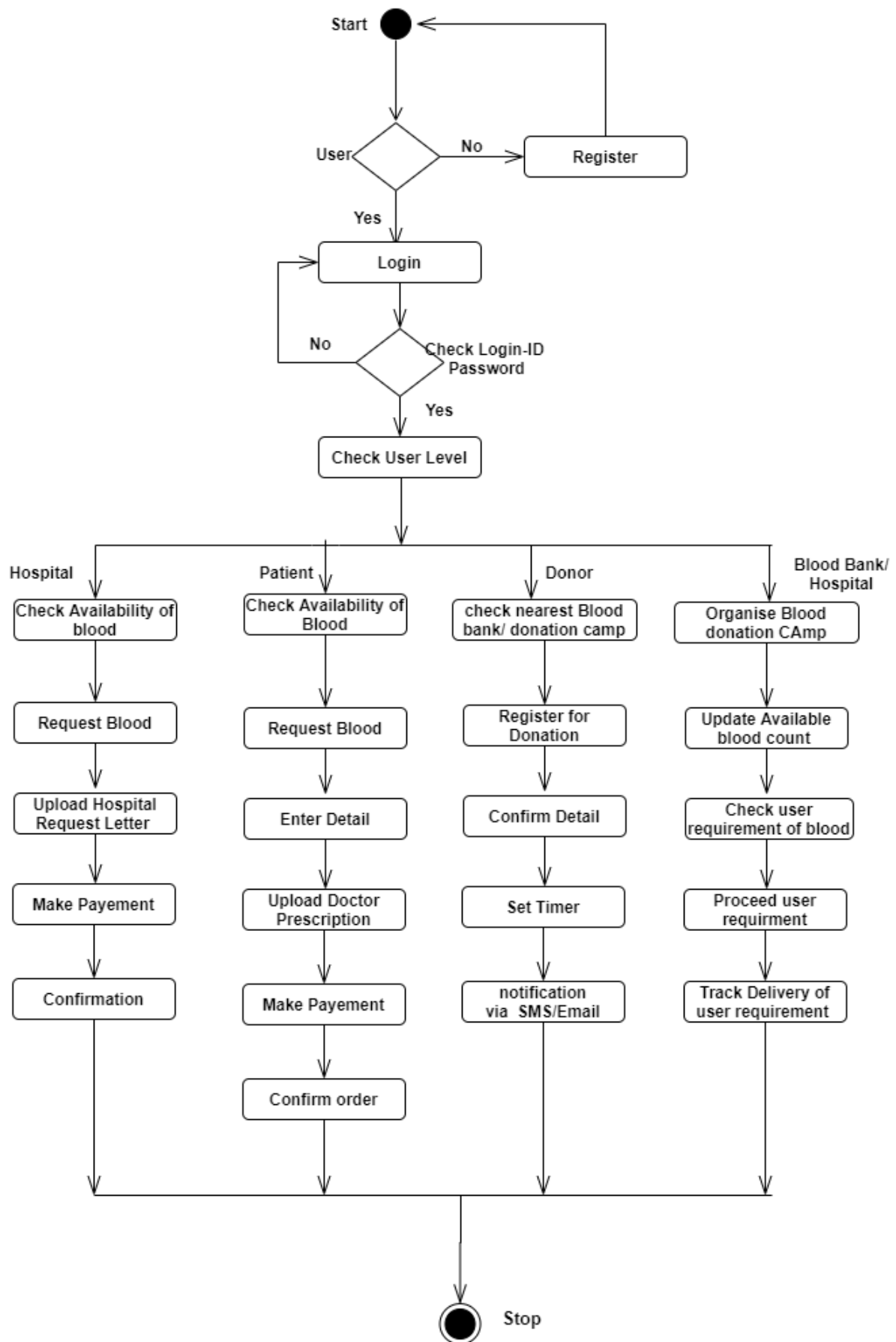


Partition- If figure is organized into three partitions, it is also called swimlanes, indicating who/what is performing the activities (either the Applicant, Registrar, or System).

Sub-activity indicator- The rake in the bottom corner of an activity, such as in the Apply to University activity, indicates that the activity is described by a more finely detailed activity diagram.

Flow final- The circle with the X through it. This indicates that the process stops at this point.





Conclusion: Hence , We studied Activity Diagram.