

IV. UML ACTIVITY DIAGRAM

ACTIVITY DIAGRAM

- It is a dynamic diagram, that shows the activity and event, that causes the object to be in a particular state

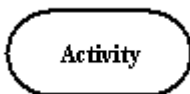
USE

- Used to model an entire business process
- Used to represent class's method implementation

ELEMENTS OF ACTIVE DIAGRAM

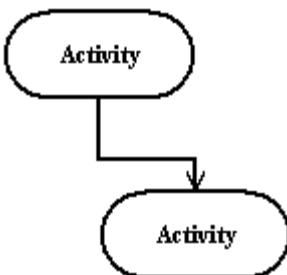
1. Action states

- Action states represent the no interruptible actions of objects.
- Represented by a rectangle with rounded edges



2. Action Flow

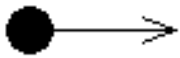
- Action flow arrows illustrate the relationships among action states.



3. Initial State

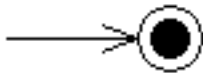
- A filled circle followed by an arrow represents the initial action state.

- Starting point of the flow



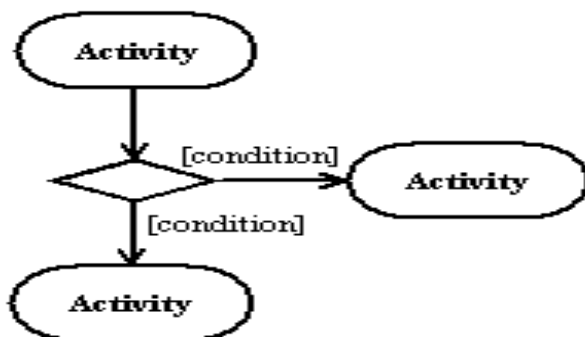
4. Final State

- An arrow pointing to a filled circle nested inside another circle represents the final action state.



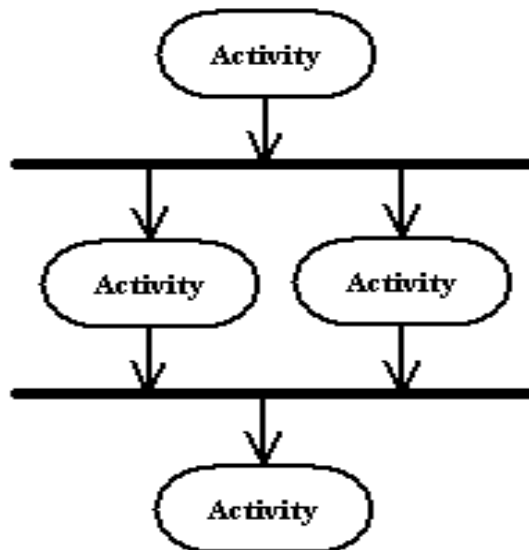
5. Branching

- A diamond represents a decision with alternate paths.
- The outgoing alternates should be labeled with a condition or guard expression.
- We can also label one of the paths "else."



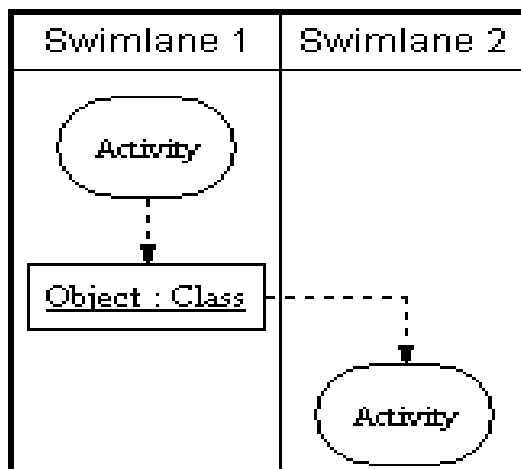
6. Synchronization

- A synchronization bar helps illustrate parallel transitions.
- Synchronization is also called **forking and joining**.



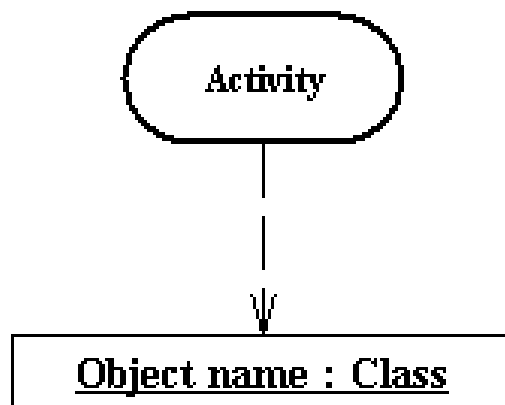
7. Swimlanes

- Swimlanes group related activities into one column.



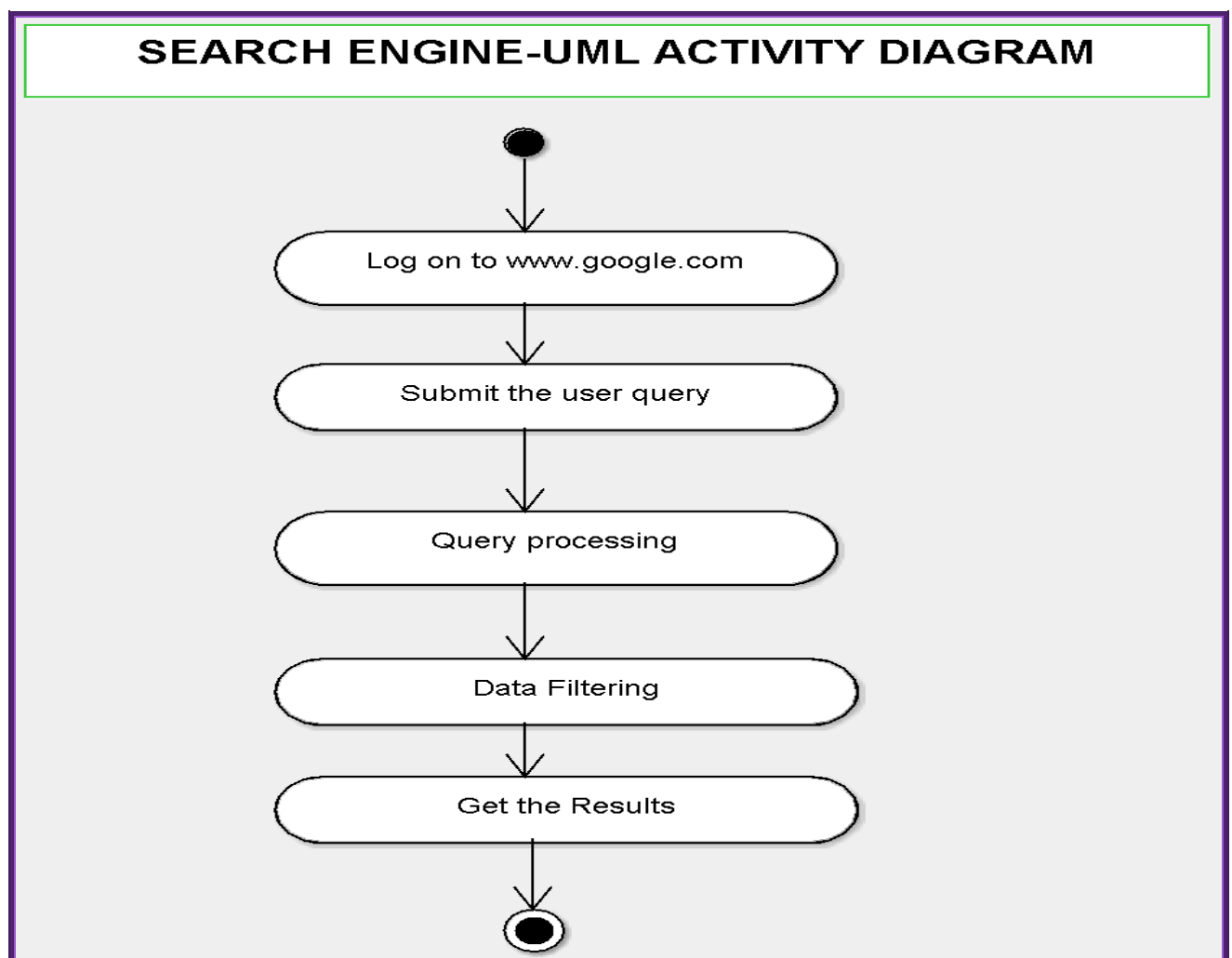
8. Object Flow

- Object flow refers to the creation and modification of objects by activities.
- An object flow arrow from an action to an object means that the action creates or influences the object.
- An object flow arrow from an object to an action indicates that the action state uses the object.



V. EXAMPLES OF ACTIVITY DIAGRAM

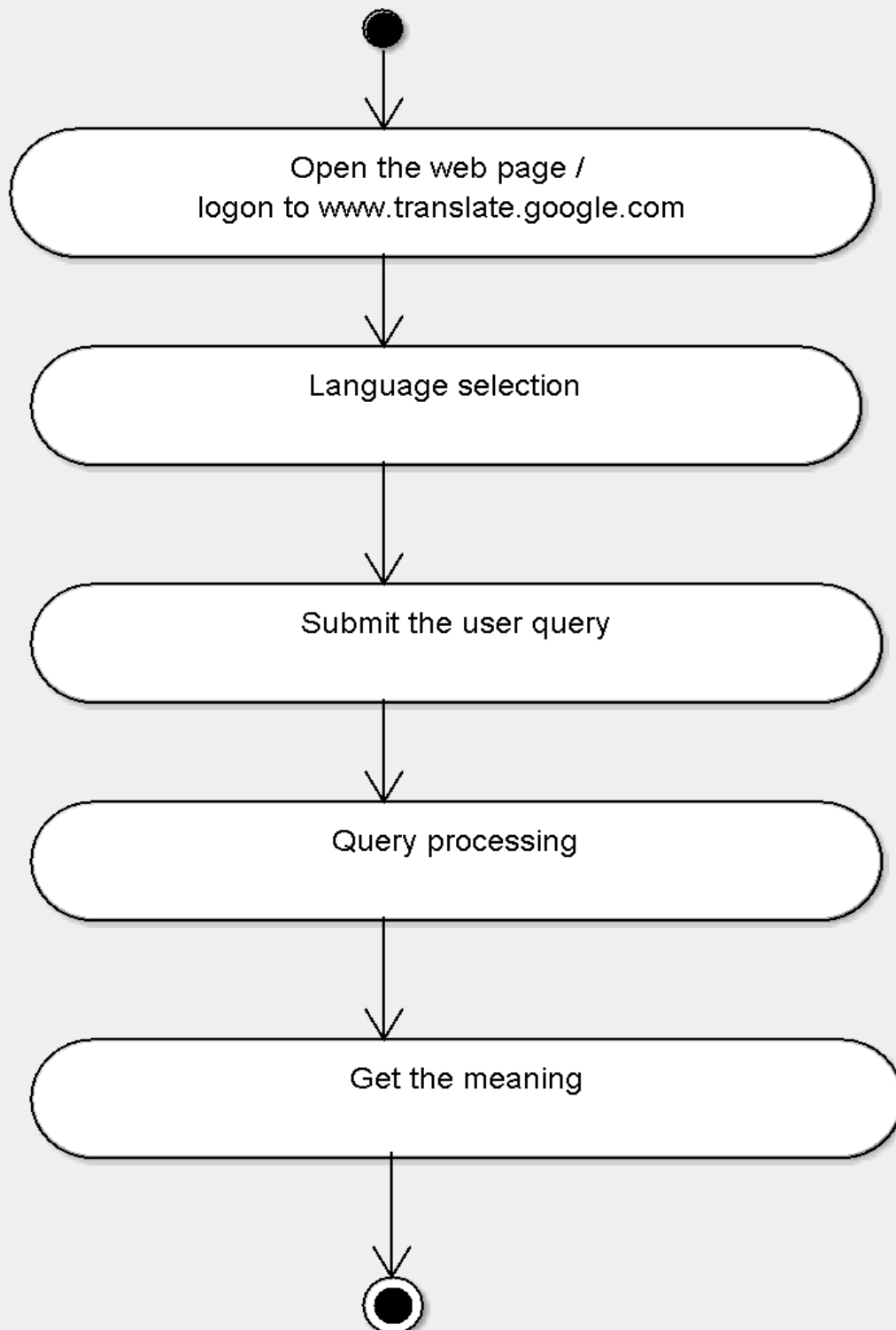
1. SEARCH ENGINE:



2. GOOGLE TRANSLATION:

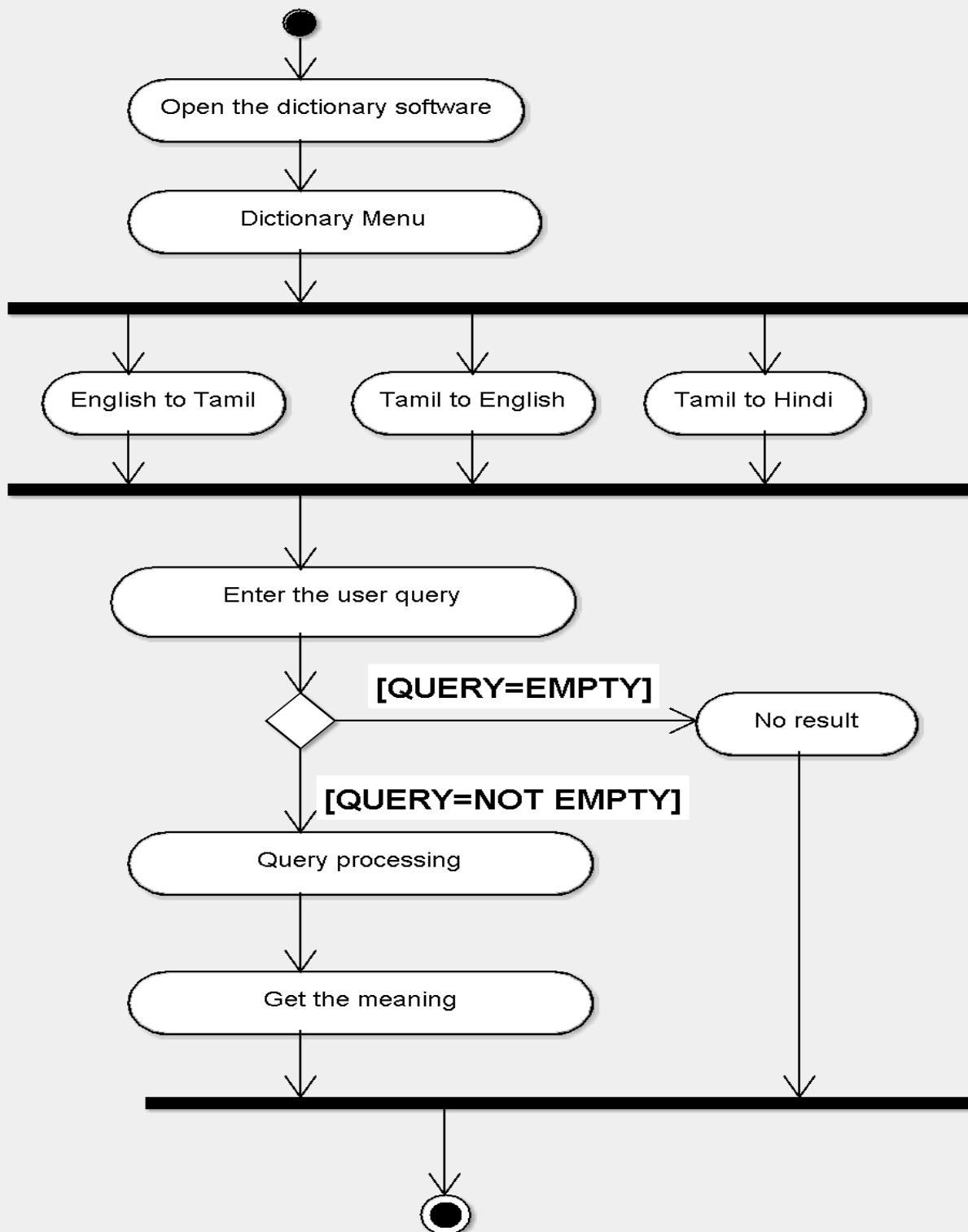


ACTIVITY: GOOGLE TRANSLATION



3.DICTIONARY SYSTEM:

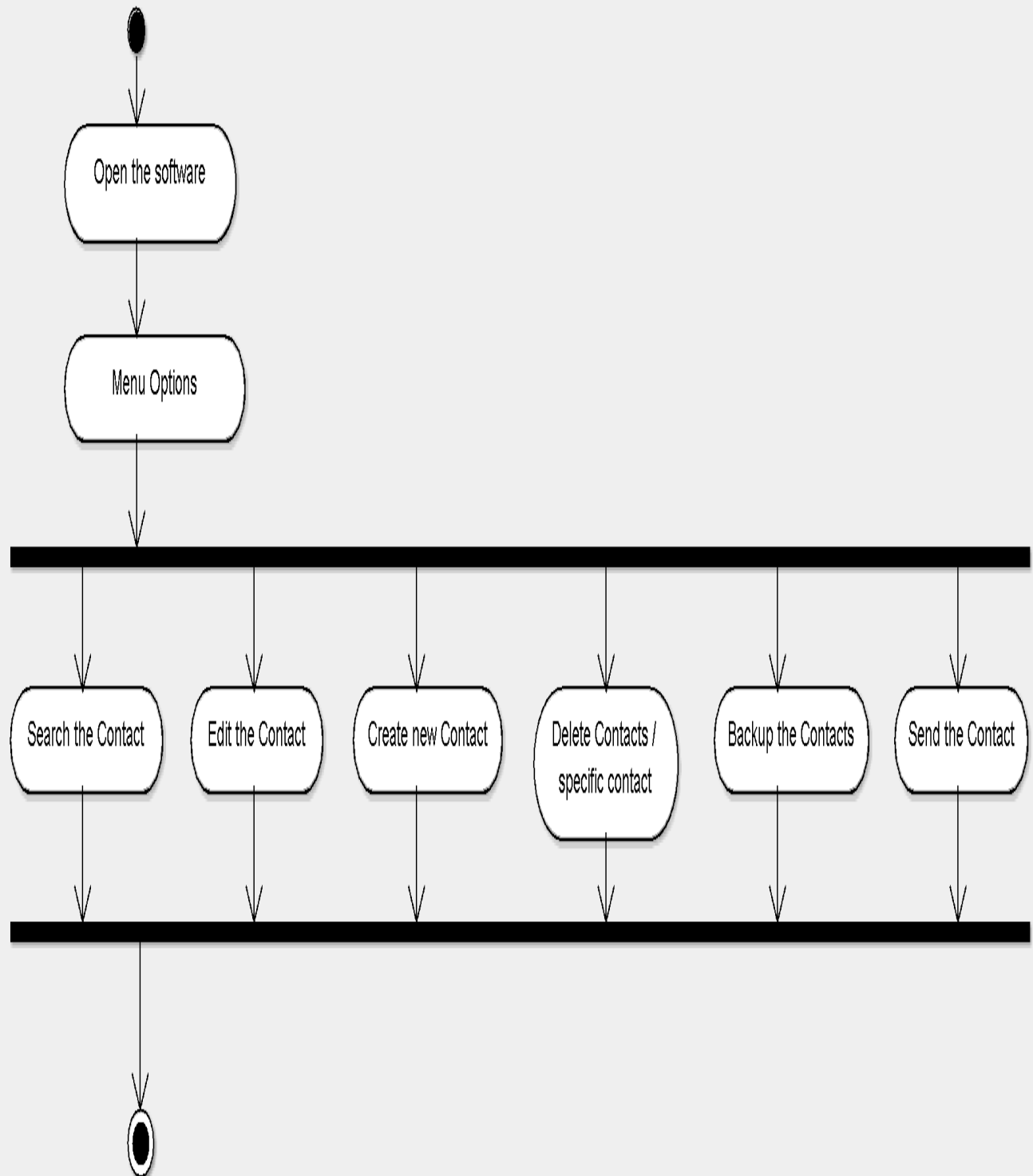
ACTIVITY: DICTIONARY SYSTEM



4.ADDRESS BOOK:



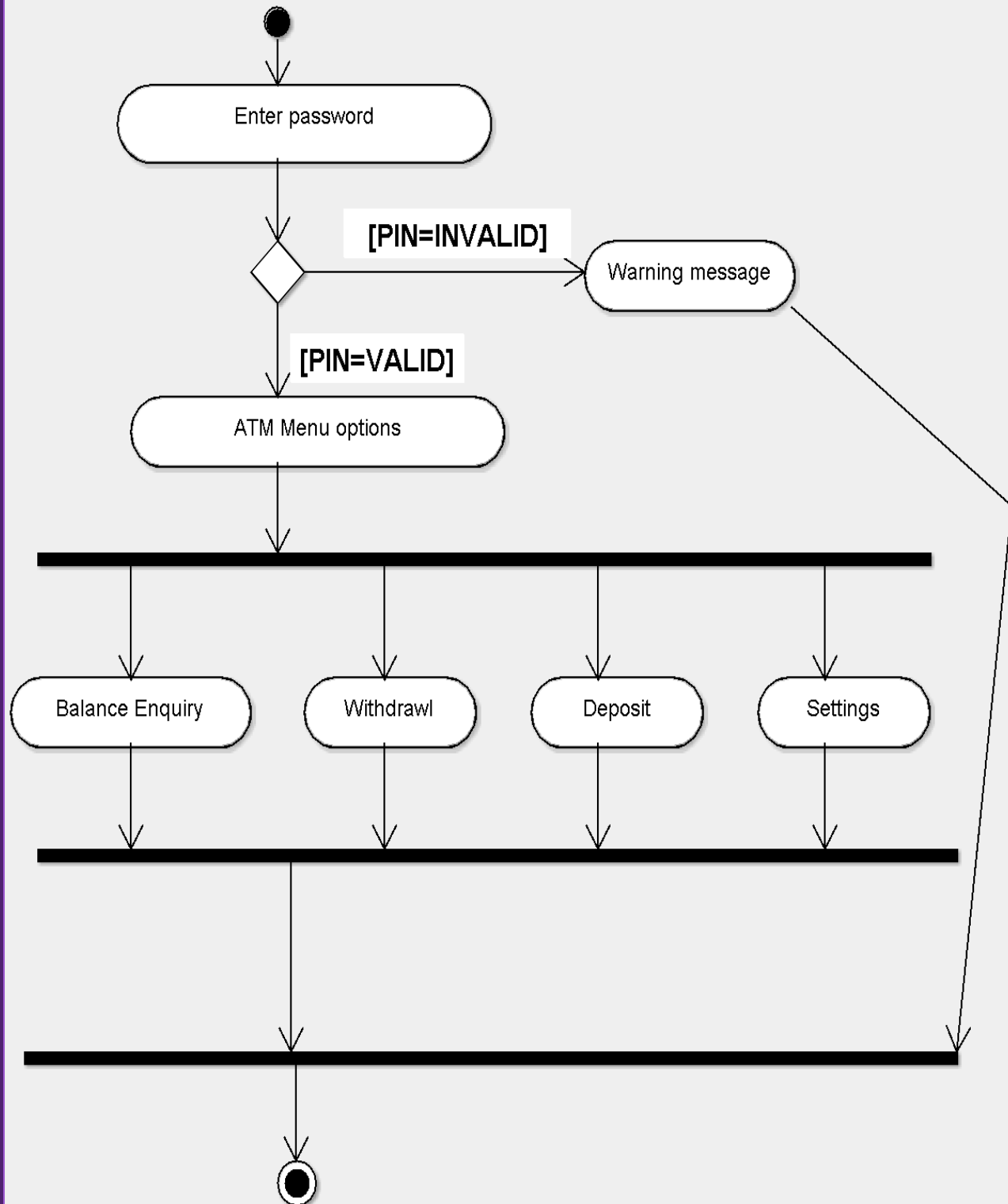
ACTIVITY: ADDRESS BOOK



5.ATM SYSTEM:



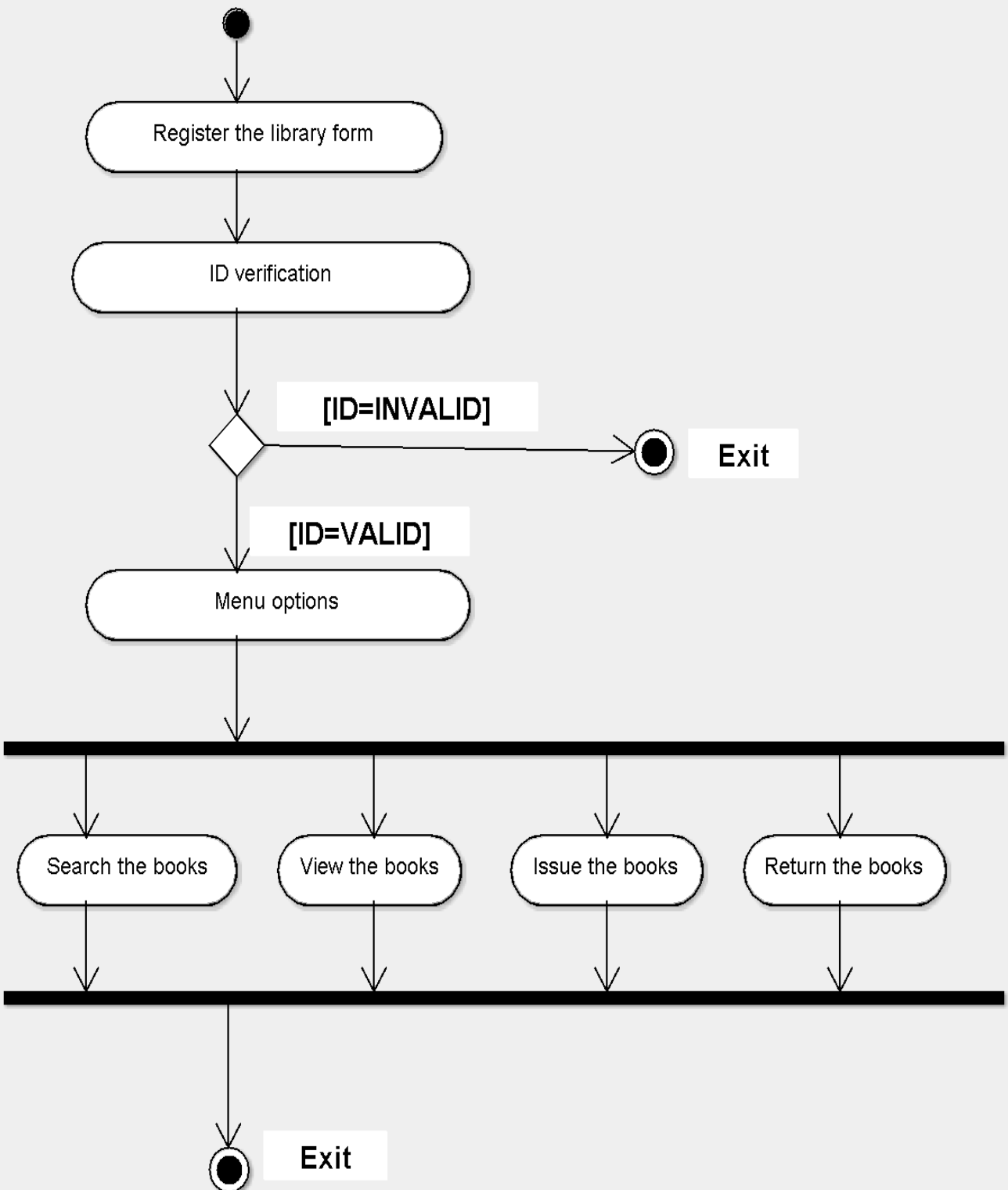
UML ACTIVITY: ATM SYSTEM



1. LIBRARY MANAGEMENT SYSTEM:



ACTIVITY: LIBRARY MANAGEMENT SYSTEM



1. HOSPITAL MANAGEMENT SYSTEM:

