Assignment-2

Course Title:- System Analysis & Design

Course Code :- CSE-325

Assign. Name:- ATM Activity diagram using DIA with report.

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Activity diagram:

A UML activity diagram helps to visualize a certain use case at a more detailed level. It is a behavioral diagram that illustrates the flow of activities through a system.

Activity diagrams can be used in all stages of software development and for various purposes. And because they are a lot similar to flowcharts, they are generally more popular than other UML diagram types.

UML activity diagrams can also be used to depict a flow of events in a business process. They can be used to examine business processes in order to identify its flow and requirements.

Activity Diagram Symbols

UML has specified a set of symbols and rules for drawing activity diagrams. Following are the commonly used activity diagram symbols with explanations.

Symbol	Name	Use
●	Start/ Initial Node	Used to represent the starting point or the initial state of an activity
Activity	Activity / Action State	Used to represent the activities of the process
Action	Action	Used to represent the executable sub-areas of an activity
→	Control Flow / Edge	Used to represent the flow of control from one action to the other
-------→	Object Flow / Control Edge	Used to represent the path of objects moving through the activity
◉	Activity Final Node	Used to mark the end of all control flows within the activity
◇	Decision Node	Used to represent a conditional branch point with one input and multiple outputs
⊢→	Fork	Used to represent a flow that may branch into two or more parallel flows
→⊢→	Merge	Used to represent a flow that may branch into two or more parallel flows

Activity Diagram for ATM:

START ●

Insert card

card Vlidation

◇ Valid=False → Display ("Card Not Valid")

Valid=True → Display ("Insert Pin")

Pin Validation

Valid=True → Get Main Menu of Transactions

Valid=False → Display ("Pin Not Valid")

Withdraw Deposit Cash Mini Statement Balance Enquiry Change Pin

◇

Savings Current

Give Transaction Reciept

Eject Card

Eject Card

Eject Card

END ◉

END ◉