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COMP 315: MODELLING AND SIMULATION

Group 1



Content

- Automated Teller Machine(ATM)
- Context model
- Interaction model
- Structural model
- Behavioral model



AUTOMATED TELLER MACHINE(ATM)

An electronic device that allows individuals to perform basic banking transactions without the need for a human teller.

- Cash Withdrawals
- Deposits
- Balance Inquiries etc.



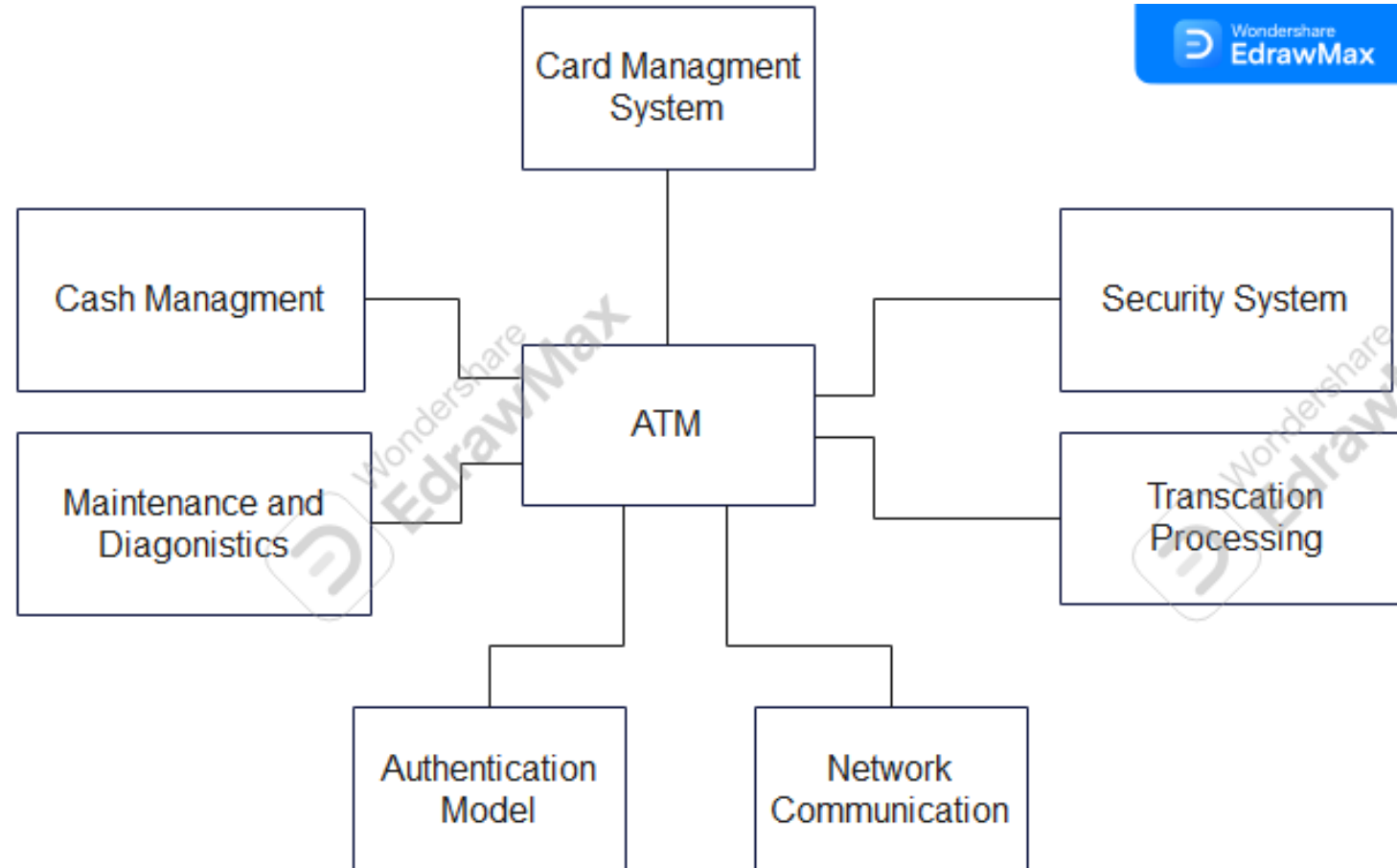


CONTEXT MODEL

- Context model show s how the system being modeled is placed in the environment with other systems.
- Context model depict the relationships between a system and its external entities or stakeholders
- Context model show what lies outside the boundaries

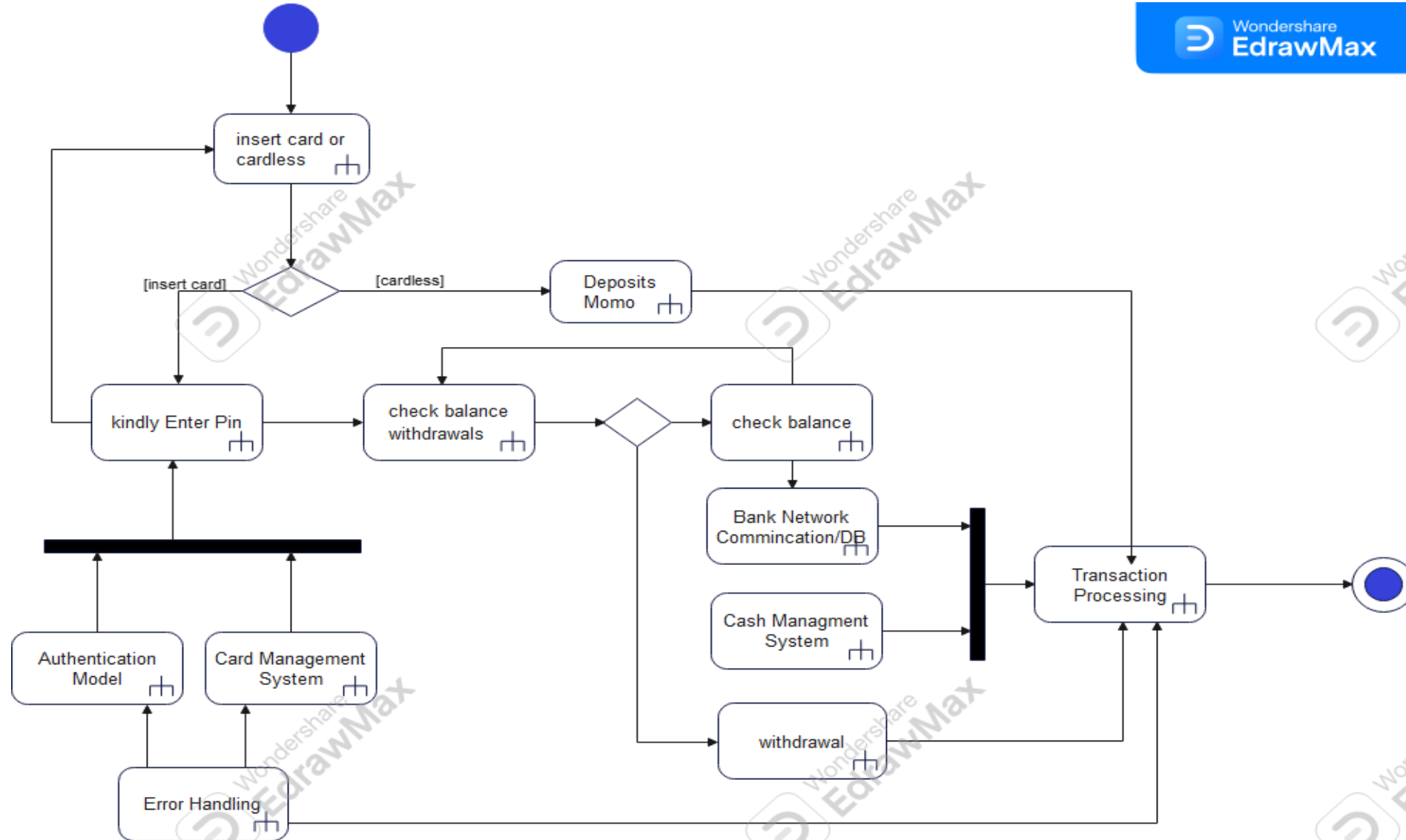


CONTEXT MODEL OF AN ATM





PROCESS MODEL OF AN ATM



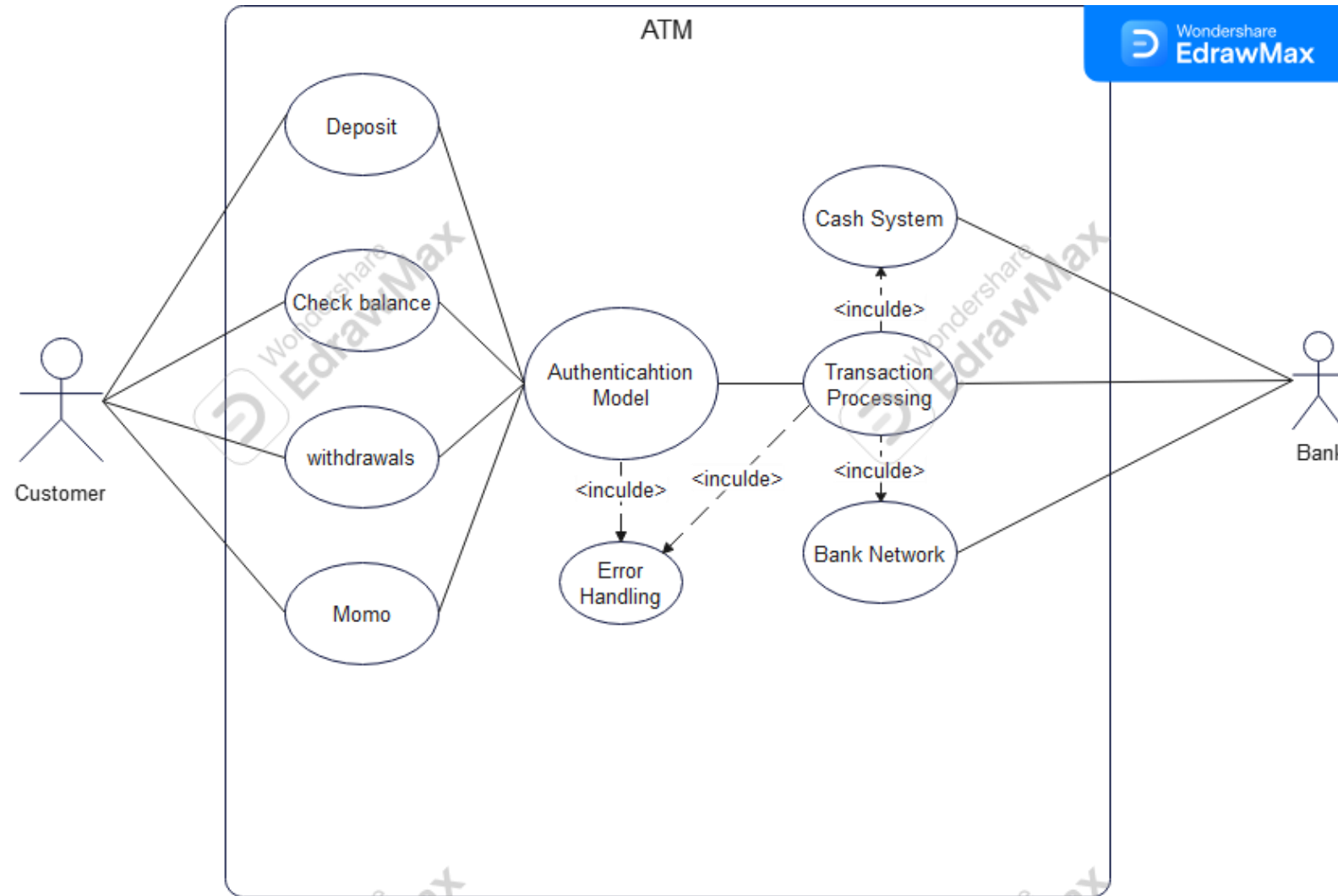


INTERACTION MODEL

- Modeling user interaction is important as it helps to identify user requirements.
- These models are essential for understanding the dynamic aspects of a system, focusing on the flow of information, control, and data between different parts of the system
- Use case diagrams and sequence diagrams may be used for interaction modeling.

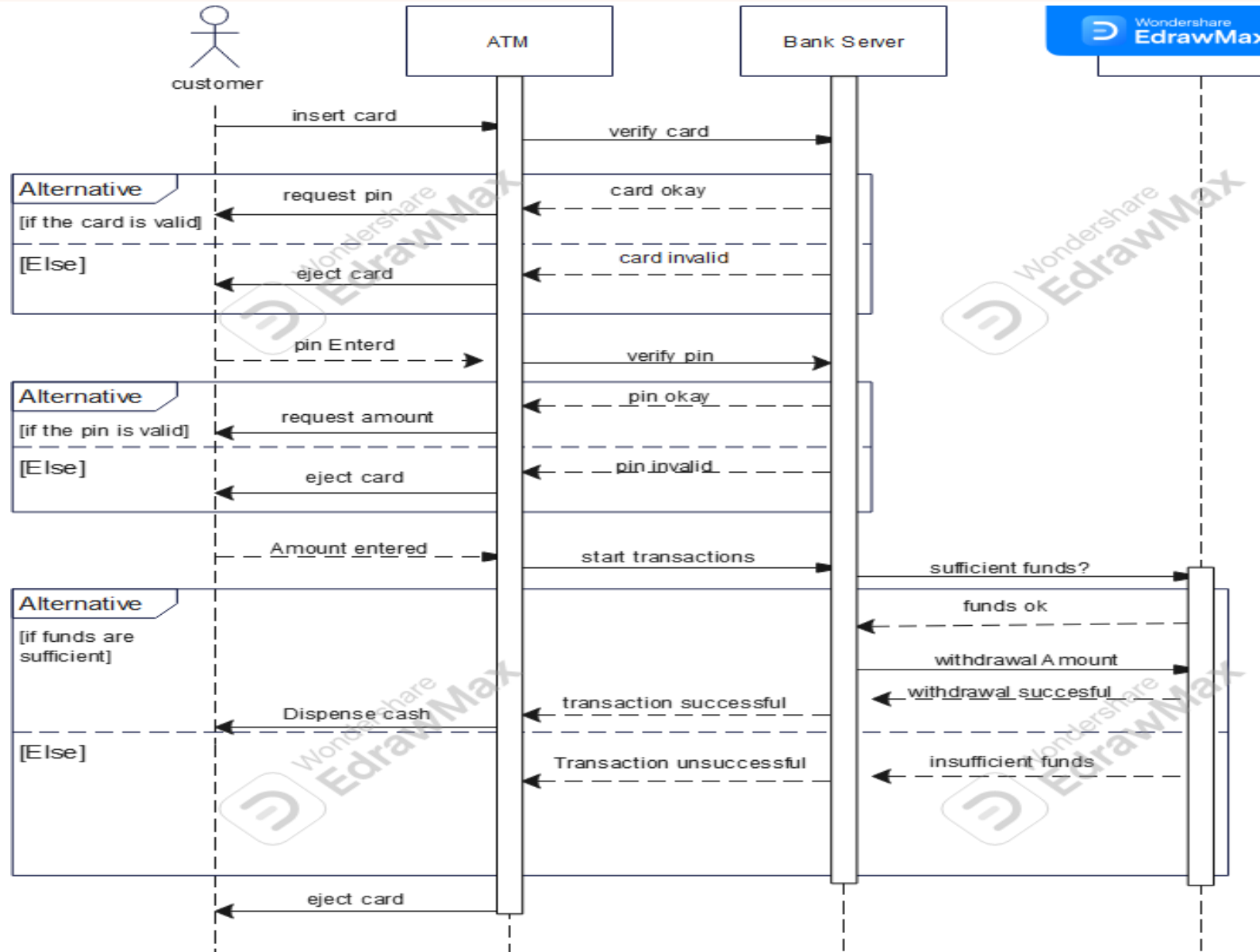


USE CASE OF AN ATM





SEQUENCE DIAGRAMS OF AN ATM



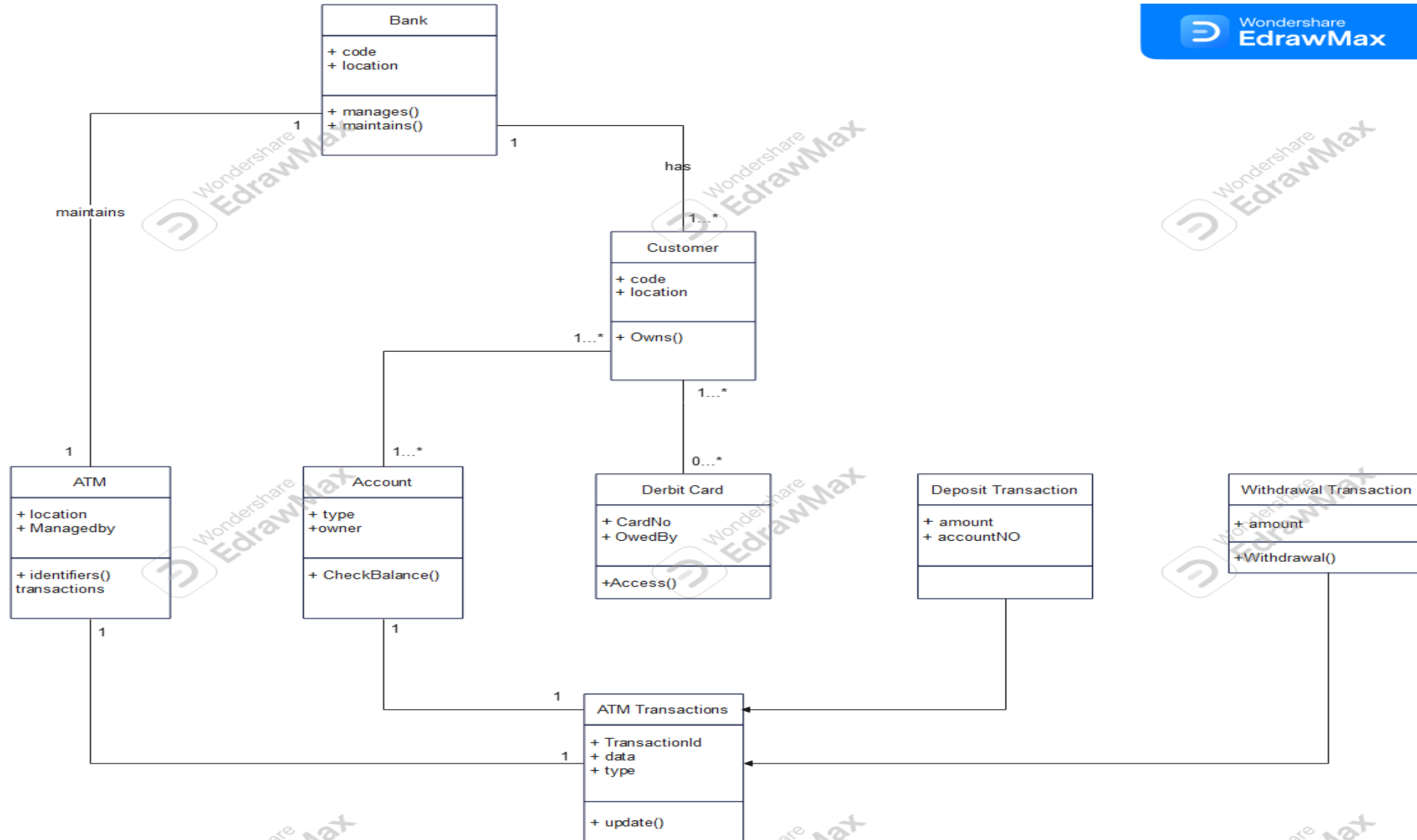


STRUCTURAL MODELS

- Structural modeling captures the static features of a system.
- The purpose is to reduce the semantic gap between the real world and the world of Software engineering/development
- Represents things, ideas and concepts of importance o the application system



STRUCTURAL MODELS OF AN ATM





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BEHAVIORAL MODELS



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