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Page No.:
Date: 11

SE ASSIGNMENT

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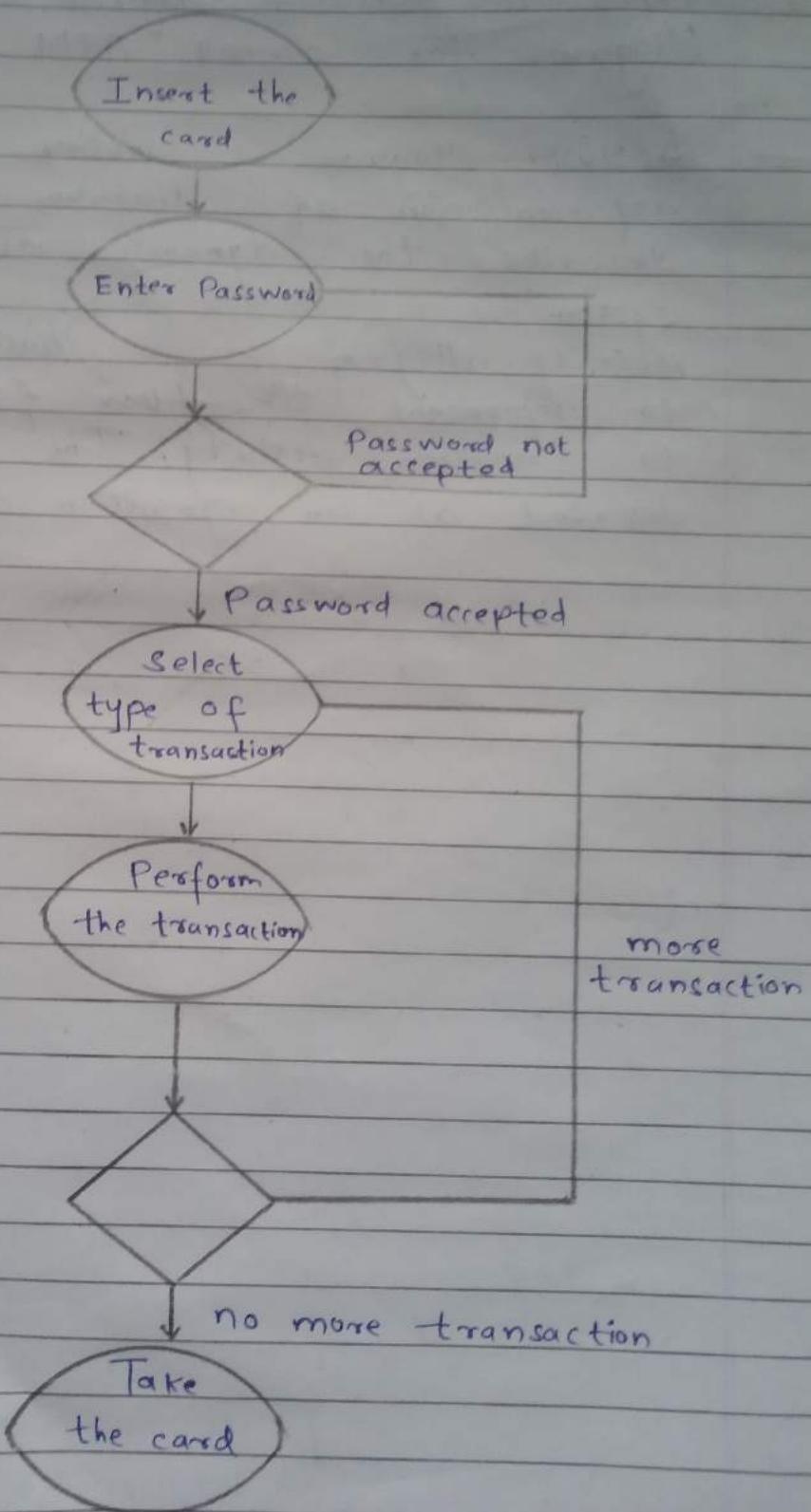
Q. 1. What is Activity Diagram? Draw Activity Diagram for overall ATM machine.

→ Activity diagram is another important representation of diagram in UML to describe the dynamic aspects of the system.

Activity diagram is a basically flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system.

2

Diagrams:



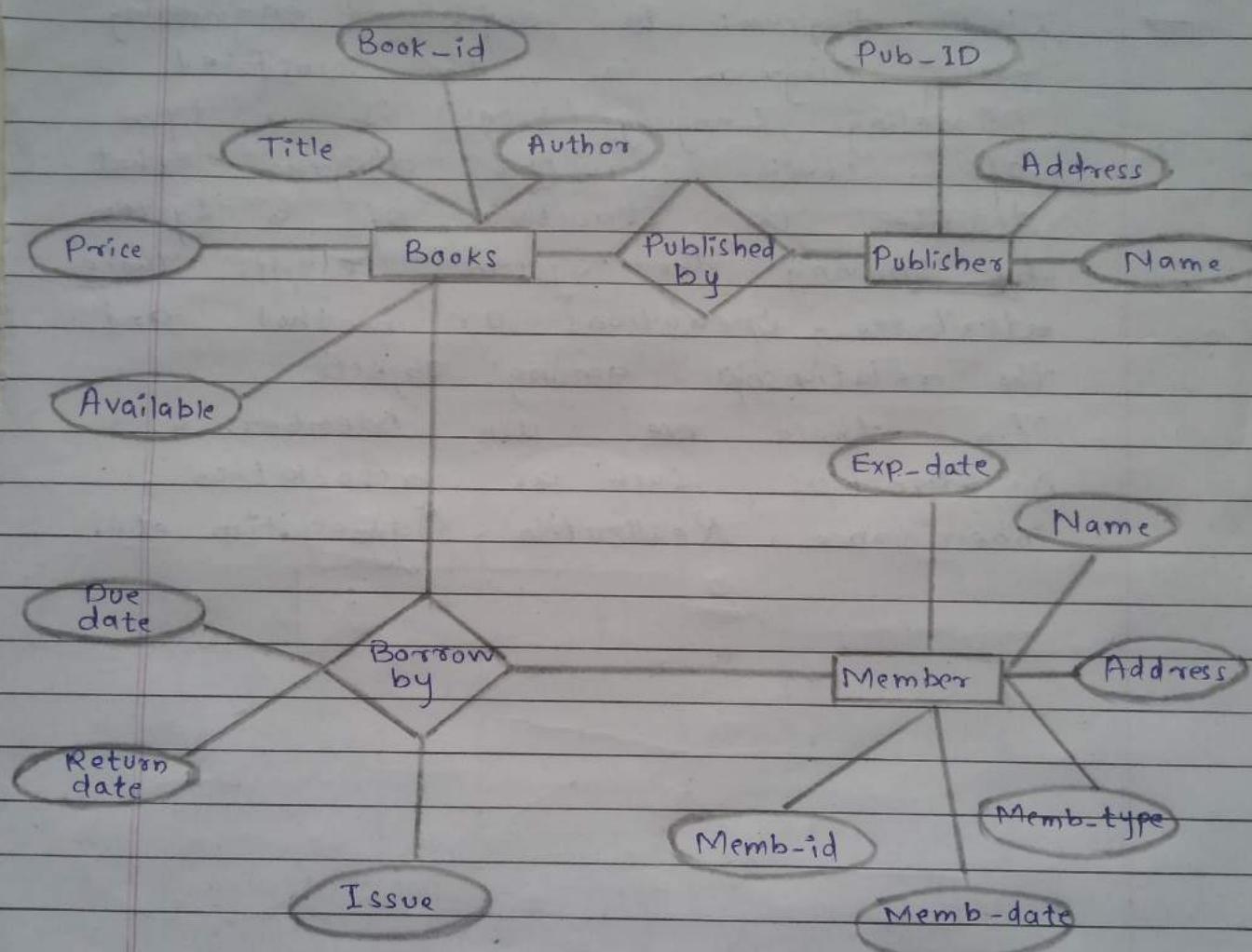
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Page No.:

Date: / /

Q.2. Implementation of ER-Diagram for library management system.

→



(4)

Q.3. What is class diagram? Draw class diagram for ATM system.

→ Class diagram:- In software engineering class diagram in the Unified Modeling Language (UML) is a type of static structure diagram that describes the structure of a system by showing the system's classes their attributes, operations or method and the relationship among objects.

In these we use Members, Relationships such as association, inheritance, Realization, Aggregation etc.

Diagram:

| Class name |
|----------------|
| Attributes |
| Operations() |
| responsibility |

| | |
|--------------|----------------|
| bank | atm info |
| +code | +location |
| +address | +manageby |
| +manages() | +identifies |
| +maintains() | +transaction() |

| |
|----------|
| Customer |
| +name |
| +address |
| +dob |
| +owns |

| | | |
|------------|---------|-----------------|
| debit card | account | atm transaction |
| +card no | +type | +trans id |
| +owned by | owners | +date |
| +access() | | +type |
| | | +modifies |

| | | | | | |
|-------------|------------|-------------|--------------|----------------|-----------------|
| current acc | saving acc | withdraw | query trans | transfer trans | Pin valid trans |
| +acc no | +acc no | + trans | +query | +amount | +old pin |
| +bal | +bal | +amount | +type | +acc | +new pin |
| +debit() | +debit() | +withdraw() | +query | | +pin change() |
| +credit() | +credit() | | processing() | | |

(6)

Q.4. Implementation of use case diagram for college admission system.

→ In these relationships between & among the actors of the user case of college admission system.

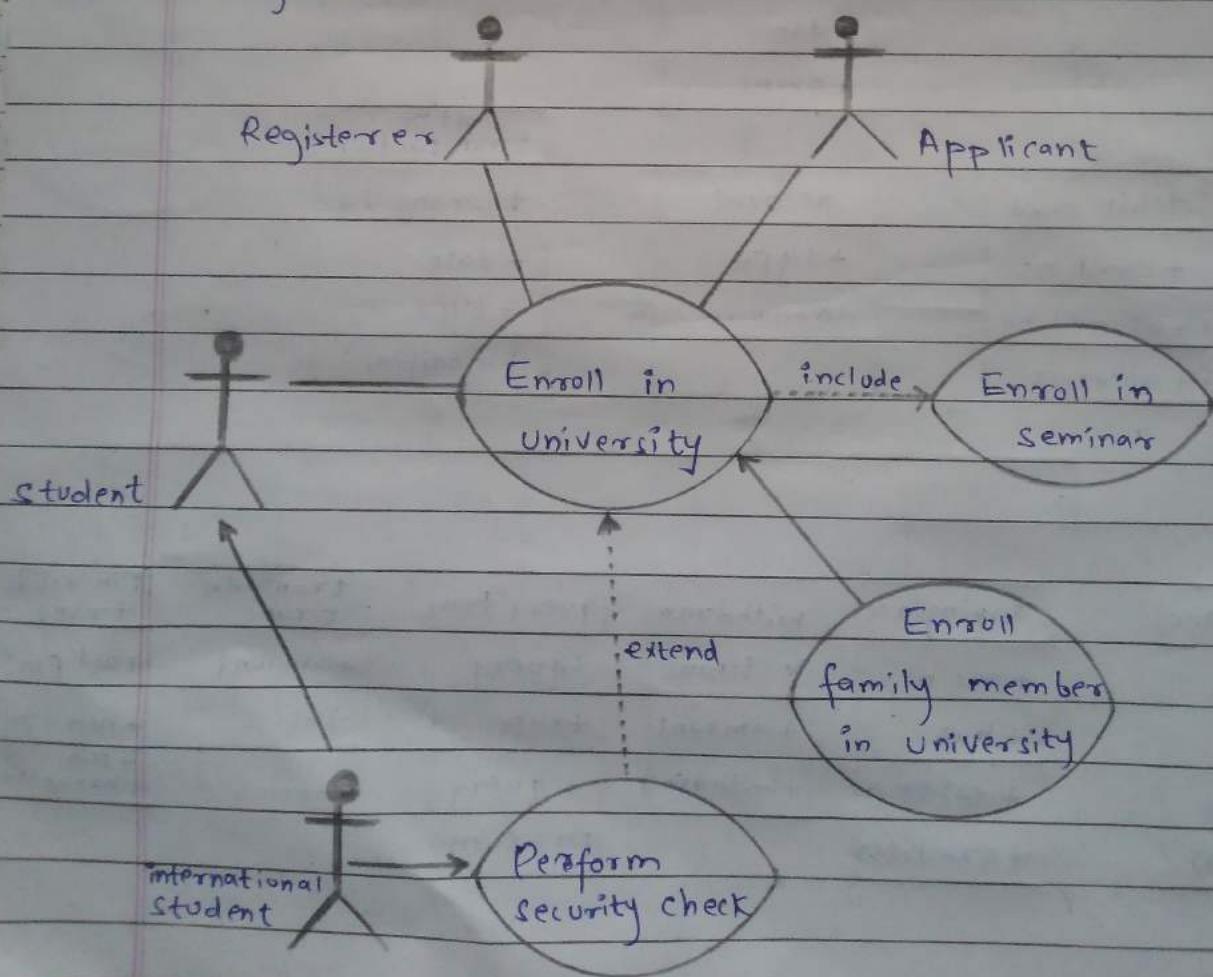
Actors are used such as student,

Register, Applicant, international student.

Use cases of student are enroll in university, Enroll in seminar,

Case are use such as perform security check, enroll family member in college.

Diagram



Q.5. What is sequence diagram? Draw sequence diagram for hotel management (check in process).

→ A sequence diagram shows object interactions arranged in the sequence. It depicts the objects & classes involved in the scenario & the sequence of the message exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagrams are sometimes called event diagrams or event scenarios.

Hotel management system in this UML system shows the interaction between the objects of customers, receptions, staffs, database.

Diagram:

