List of Coor Studies:

Chase any a lave abodies and Songlement. he experiments

9 Arm Application

2) library Maragement Cystem. Revelop class diagram and object diagram wing Rational Pase

Description (-Analysis)

class Digram Others a Old g classes, interprete and Collabolations and their relationships. class Diagram that include active Classes address the obtatic process view p a Obystem.

Olyect Diagram:

. Object diagrams stepresent obtain abagostiols of instances of the things found in class diagrams.

. These diagrams address the Oblatic design view on Oblatic forecent

view q o system.

· Rational nose is a Apphistrated case tool with a number q automated features, including code generation and neverse engineering. The volution you was the is not the most second version and there are limitations on the size of the diagrams you can shere.

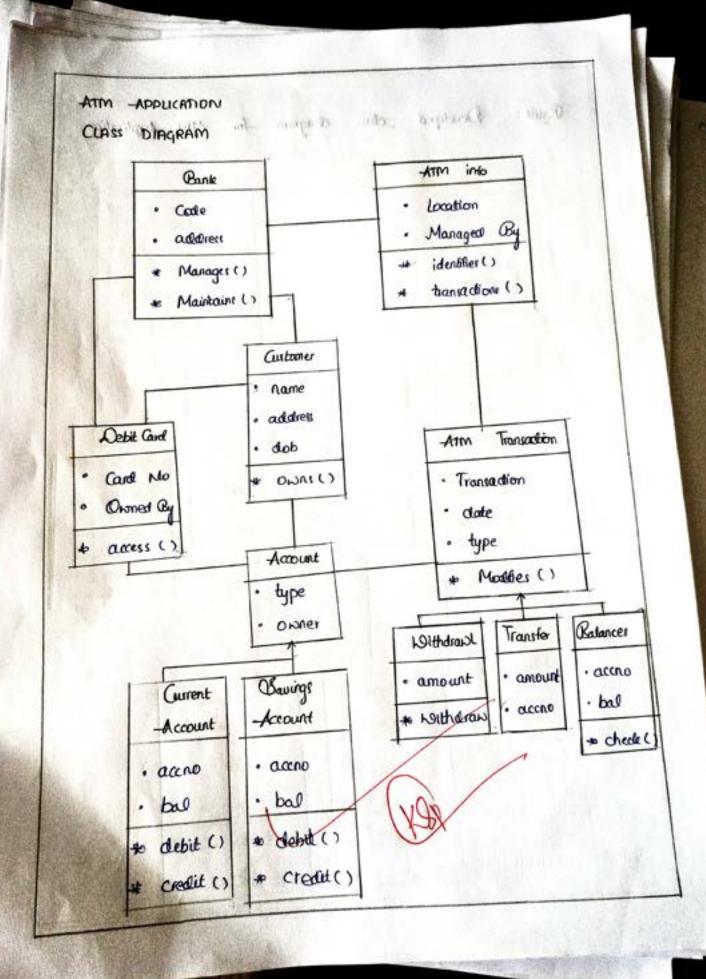
appliation:

. The ATM application convicts of ATM, customer and the Bank details

- The customer consists a account number, name, address and also founded delates
- . The ATM into conside location & the bent details maraging the ATM.
- . Mainly the bank consider & customer details and the account
- . There are interlinked to each other. There will be davings and clurrent account of a conterner in the bank.
- · The Arm Can have known deposit, query I find Valididy.
- In this the ferror) Customer have a change to change the
- . The class to object diagrams are as shown below.

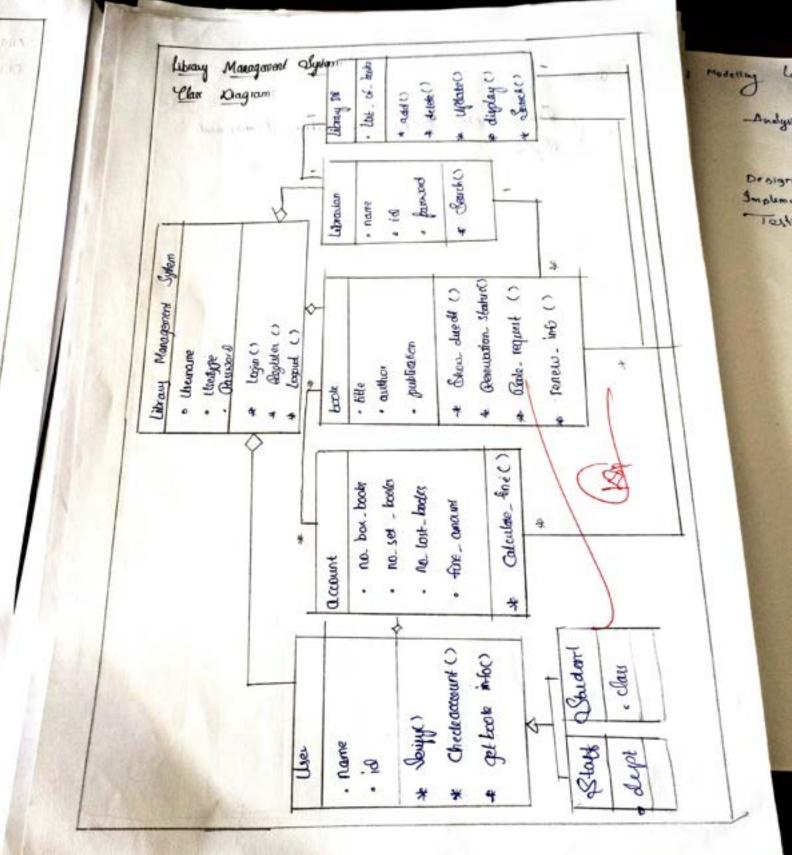
Mode

Library Management System Class Diagram · A class diagram others a del 9 classes, integers, and Collabolations and their delationships class Diagram that include active days address the state forcess User & a System Object Diagram . Object chagrams prepresent Static escapshet g instances q the thing found in class diagrams. · An object diagram whom a set of their metabiothypo There diagrams address the static design view & state process view g a objeton. Library management is a vast N/N/ consists of Janian facts of OSteps: Mainly it contists a Books details & librarian details. Then next it contains munter details like Student a faculty details. The library Consists of Union books So, the books are divided into various categories based on their features & authors. bolling consists of bill no, five, due date & also issue The Based on the date g issue & return the free will be graphed. will will be issued when the student frage the There are the flow details which are man important & plays leey role in the Lour.



ATEL ATRICATION class diagram Result: Developed for ATM Application one carke - Limbe of Planner ! e d'élaulaire (le 000 51 CA Cost No the mil er many 4 (Witte)

Result: CAMPASSIFIED BUTA Developed Object Object Object of ATM Application percet pregue M. I IN IGIA Joseff - (A -7 -1-99 - 4 -1 Joseph . (A. A married with a the planty is a Charman , 18 " 10(1(1) x ()) NO 12 . 961 , oh 1) . to be have J. Clabico JO. Pate Fronte



while wasposed work! Perutt: Developed class diagram for Library Management Bystem.



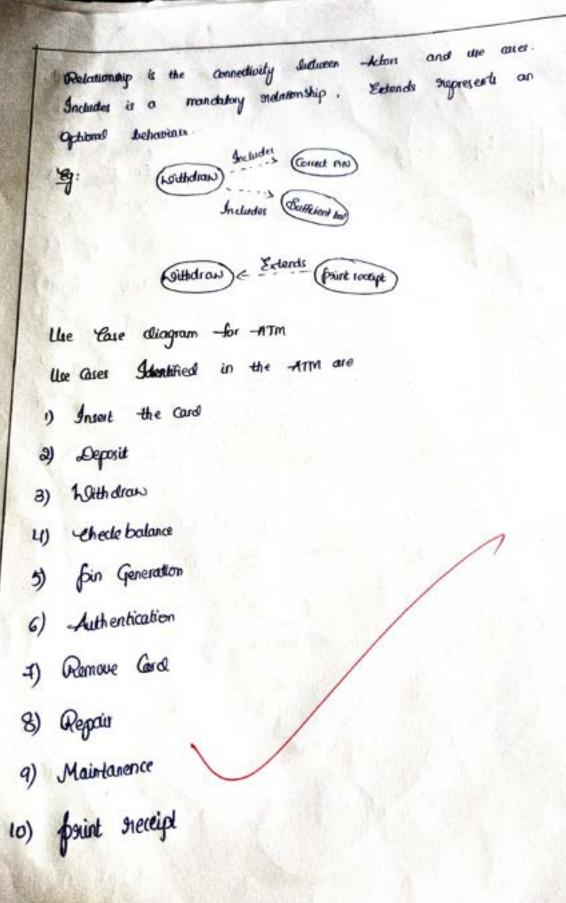
Modelling

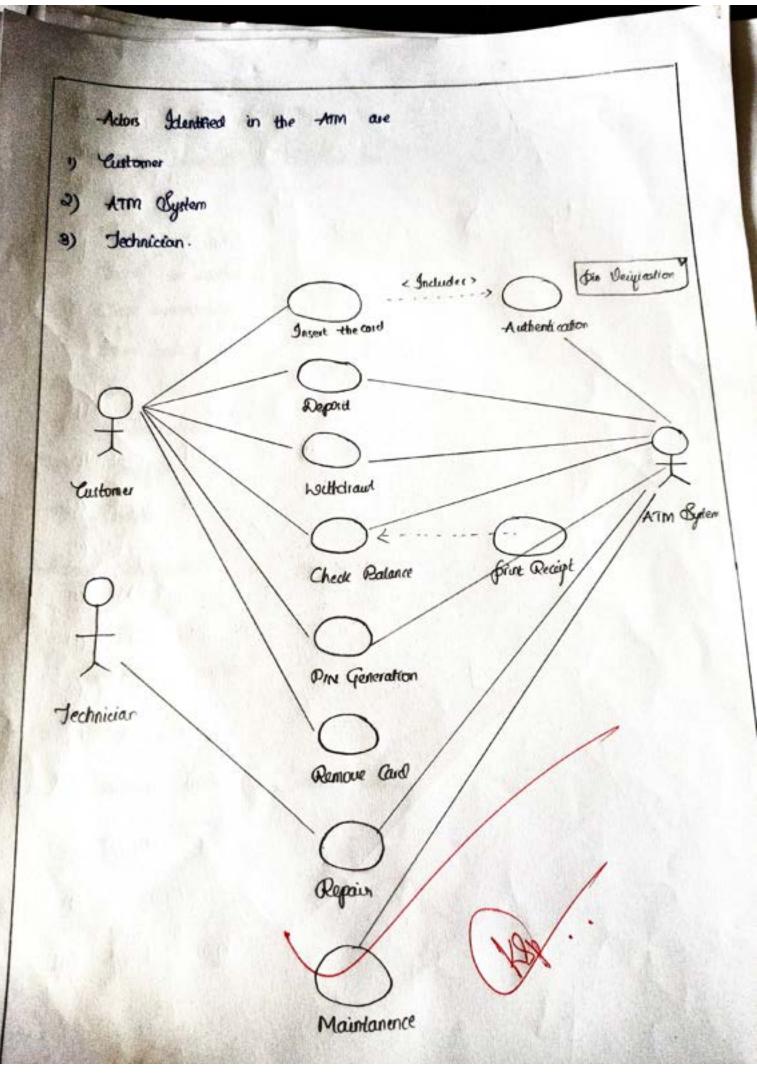
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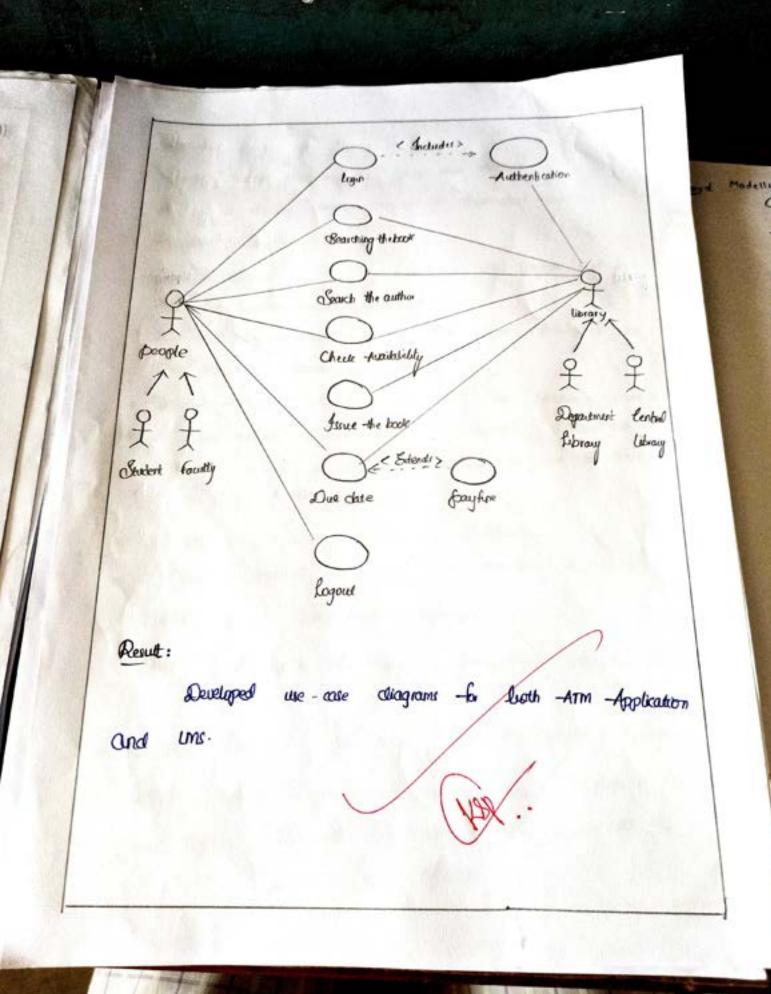
Result : Developed Object diagram Oystem. Library Management

Meck-8 Develop the care diagrams a realisate use care descriptions 2 Odomujor Aim: To decelop use case diagrams & statedate descaptions & Berowis Description (-Analysis): Usecase · Behavious q a system / Subsystems (O1) Rynamic Behavious q a alystem. Components of use-asse 1) use-cone : (Ectipse) 2) Ada : 3) Relationships: 1) -Association: . - - -> (use case a) Includes : 3) Extends : is - a - kied of Aelationship 4) Generalization: Actors are the users of a stystem. They can be people, Enganizations, or other Systems. An actor can be a forimary user of a Gecorday user a system.





Use Case diagram for une: Use cases Hentified in the ums are) Again 21 Bearching - Go back 3 Bearth the author 4) Check availability 3) Assue book 6) Due date -) -Authentication 8) Buy fine 9) Logout -Actors Scientified in the use-case: ") feogle Student, Jeachers Library Department Library, Central Library.



Week-10

Develop sample diagrams for shote chart diagrams.

Aim: To develop Sample diagrams for state chart diagrams.

Description (Analysis):

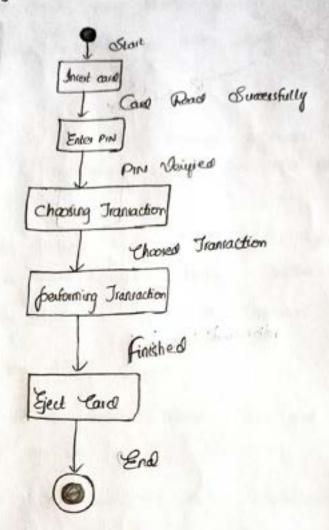
- * Statechart diagram is one of the five une diagrams used to model the dynamic nature of a objection.
- * They define different states of an object during its lightme and these states are changed by Events.
- * Statectart diagrams are useful to model the headive styllems.
- * A Wate-transition diagram frament a Sequence q chates that an Object goes through during life cycle. It describes how the States of an Object A, Component charge:
- * A state is defined by its diviation & stability
- * A Januilia Supresent the Charge from one State to another.

Elements in a Ottate-transition diagram

- · State: Propresents the Salve of the Object attributes at a given time
- · Transition: Represents the change from one obtate to another.
- · Initial State: Represents the state when the System is started.
- . Final Ostate: Depresents the ottate of the Osystem at the end of the Officiation.

Statechart diagram for ume: Login Check Ico Authentication Deigred Search Searching the book Availabelity Assilable Issue Iss wed Usage Used Return Deturned Logout End

Statechast diagram for Arm:



Result:

Developed Ottate chart diagrams for ATM application and LMs.

Inleete -11 Develop Dreated design using activity diagrams. ALM: To Develop detailed design using activity diagrams. Description (Analysis): Activity Diagram: Oct & activities can be supresented. It is a basically physichaet to represent the flow from one activity to another activity. * The activity can be devaited as an operation of the System. * The Control flow is drawn from one operation to another . This flow can be dequential, branched of Concussent Basic components of an Admity Dragram: Action: A obtep in the activity therein the uses or, obstitute beyown a given take. Control Alons: The flow between the eteps. Represented by -Start nade: Bymbolizes the beginning of the actually End node: Represents the final oxep in the activity Complines a concurrent activities and see introduces them to flow hohere only 1 activity occurs at a time fork: Aprile a dingle activity flow into a concurrent activities. H Condition: Represents a decision & alway has atleast & father branching out to allow wers to view options.

