CRC - Class Responsibility Collaboration List of classes - each class written on a card

For each class -

You list down responsibility of that class Which classes it is going to use/interact (collaborators)

- 1. Identify classes (nouns)
- 2. Identify attributes (properties, descriptive phrases)
- 3. Identify operations (verbs, verb phrases)
- 4. Identify relationships (Dependency ————>Inheritance. Weakest to
- strongest)

Express the design using UML (class diagram, sequence diagram, state diagram etc.)

List of NOUNS -in the requirements will be

a good candidate for Class names Which ones have significance?

Your responses for #1:

Bank containing many accounts 1 to many relationship

BankDatabase,
User/Customer,
Account
KeypadInputManager
CashDepositManager
CashDispenser
GUIManager/Display System
ATM - Class to maintain the overall
balance(using its CashDispenser) in the
atm machine & other details of the machine

address/location/uniqueID

UserTransactions - View Balance, Cash withdrawal,

DepositFunds

Image processor (validating check deposits)

currentBalance (probably attribute of Account)
Account Credential Validator (probably an operation on Account)

Suggested features: ChangePIN Transfer

Composite->contains->components
Composite -has-a- Component
Composition - Exclusive ownership of
components(Not shared), each component
is *part-of* one container
Lifecycle of component is within the
lifecycle of the container - component
objects do not exist without the container

object
Composite is going to have at least one
instance of the component - zero instances
are not allowed
One ATM object represents one ATM
machine
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