Contract CO1: createAccount
Operation: createAccount(id,email, password, affiliation, contact info, description)
Cross Reference: Use Case: Create Account
Preconditions:
- Client is not already registered in the system
- Email is unique and valid
- All required fields are provided by the user (email, password, affiliation, contact info, description)
- Administrator account must exist

Post conditions:
- A new Client account, c, is created with status awaiting approval [Instance Creation]
- System stores the clients information [Association Formed]
- System sends account request to administrator to review [Association Formed]
1. If request approved
    - client account status is created in system [Instance Creation]
2. If request not approved
    - client account status is deleted in system [Instance Deletion]

Contract CO2: logIn
Operation: logIn(email, password)
Cross Reference:
- Client Searches for Auctions and Objects
- Requesting Service
- Auction Viewing Registration

Preconditions:
- The client account has been approved by the administrator
- Username and password combination is correct

Post conditions:
- A client session instance, c, is created [Instance Creation]

Contract CO3: searchObject
Operation: searchObject(type)
Cross Reference: Client Searches for Auctions and Objects
Preconditions:
- The client must be logged in
- The system (auction houses) contain object lists
- Object must exist

Post conditions:

- A search result list is generated [Association formed]

Contract CO4: selectObject
Operation: selectObject()
Cross Reference: Client Searches for Auctions and Objects
Preconditions:
- Client has performed a search by object type and received a list of objects
- Selected object must exist in the system
Postconditions:
- Client views object information

Contract CO5: selectAuction
Operation: selectAuction()
Cross Reference: Client Searches for Auctions and Objects
Precondition:
- Client selected an object that is linked to an auction
- Auction is available for selection
Postcondition
- Client associated to the selected auction [Association Formed]
- Auction participant list is updated [Attribute Modification]
- Client is sent confirmation of their selected auction attendance

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Contract CO6: RequestService
Operation: RequestService(type)
Cross Reference: Requesting Service (Success and Failure)
Preconditions:
- Client must already be logged in
- Service type must exist
- Expert in that service type must exists
Post conditions:
- Display all service availabilities [association formed]

Contract CO7: ClientChoosesServiceTime
Operation: ClientChoosesServiceTime()
Cross Reference: Requesting Service (Success and Failure)
Preconditions:

- Client must already be logged in
- Service Type must already exist
- Expert in that service type must exist
- All service availabilities must be displayed
- Service time must coincide with what client needs

Post conditions:
1. If Expert confirms
    - Service is associated with client [association formed]

Contract CO8: SearchAuctions
Operation: SearchAuctions(specialty)
Cross Reference: Expert sets availability for service (success and failure)
Preconditions:
- Expert is logged in
- Specialty must exist

Post conditions:
1. If Auctions with that specialty exists
    - All auction times for that specialty are displayed [association formed]

Contract CO9: ExpertSetsAvailability
Operation: ExpertSetsAvailability(service, date, time)
Cross Reference: Expert sets availability for service (Success)
Preconditions:
- Expert is logged in
- Specialty must exist
- Service must exist
- Auction with that specialty must exist

Post conditions:
- Availability for Expert is updated [instance creation]
- Service times updated [instance creation]

Contract CO10: InPersonAuctionRegistration
Operation: InPersonAuctionRegistration()
Cross Reference: Auction Viewing Registration
Preconditions:
- Client is logged in
- Auction house exists

- Normal auction must exist

Post conditions:
- Client is associated with normal auction [Association Formed]

Contract CO11: viewingRegistration
Operation: viewingRegistration()
Cross Reference: Auction Viewing Registration
Preconditions:
- Client is logged in
- Auction house exists
- Normal auction must exist
- Viewing must exist
- Client must be registered for Normal Auction

Post conditions:
- Client is associated with viewing [Association Formed]