

System Operations

CreateAccount(id, email, password, affiliation, contact info, description)
LogIn(username, password)
RequestService()
ClientBooksServiceTime(clientId)
searchAuction()
select(auctionId)
searchObject()
select(objectId)

Contracts

Contract CO1: createAccount

Operation: createAccount(id, email, password, affiliation, contact info, description)

Cross Reference: Client Sign Up and Approval (Success and Failure)

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 Login (Success and Failure)
- Requesting Service (Success and Failure)
- Object Selection and Viewing Sign up
- Expert sets availability for service (Success and Failure)

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: RequestService

Operation: RequestService()

Cross Reference: Requesting Service (Success and Failure)

Preconditions:

- Client must already be logged in
- Service type must exist

Contract CO4: ClientBooksServiceTime

Operation: ClientBooksServiceTime(clientId)

Cross Reference: Requesting Service (Success)

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 times must coincide with what client needs

Post conditions:

- Service is associated with client [Association formed]

Contract CO5: SearchAuction

Operation: SearchAuction()

Cross Reference: Search Auction (Success and Failure)

Preconditions:

- Client must already be logged in
- There must be auctions that exist

Contract CO6: select

Operation: select(auctionId)

Cross Reference: Search Auction (Success)

Preconditions:

- Client must already be logged in
- There must be auctions that exist
- The Auction of interest must exist

Contract CO7: searchObject

Operation: searchObject()

Cross Reference: Search Object of Interest (Success and Failure)

Preconditions:

- The client must be logged in
- The system (auction houses) contain object lists
- Objects must exist

Contract CO8: select

Operation: select(objectId)

Cross Reference: Search Object of Interest (Success)

Preconditions:

- Client is logged in
- Objects must exist
- The object of interest must exist