

1. **Name:** Keval Shah
GH link: https://github.com/kevalds51/keval_CSCI_5448_project
2. **Title:** Artifact Management Services
3. **Project Summary:** An inventory management and procurement application for artifacts. Organizations such as museums and galleries, manage their collection and funds by trading, lending and auctioning of their artifacts. They can also transact with individual collectors under certain conditions.
4. **Project Requirements:**

User Requirements and Responsibilities for the System

ID	Requirements	Responsibilities	Priority
UR-001	As a system administrator, I need to log in so I can monitor the system.	Admin is required to have a valid ID and password. They have to enter the correct ID and password combination in the required fields.	High
UR-002	As a system administrator, I need to access any user's account for some situation.	The admin has the information regarding the user and is required to make a search in the records.	Medium
UR-003	As a system administrator, I want to be able to add/delete artifacts so I can keep the system updated.	The admin is required to remove/add artifacts as soon as a transaction is registered. They have to fetch the information from transactions.	High
UR-004	As a curator, I need to login and check artifact exchange requests.	Curator is required to have a valid ID and password. The curator has to enter the correct ID and password combination in the required fields.	High
UR-005	As a curator, I want to update the status of Museum artifacts and post Auctions.	The curator has selected the artifact to be updated. They should select the status from available options only.	High
UR-006	As a curator, I want to be able to evaluate (approve/reject) artifact sell requests from collectors.	The curator has to access the sale requests. Curator is required to give a decision post evaluation.	High

ID	Requirements	Responsibilities	Priority
UR-007	As a curator, I want to maintain a list of Museum transactions.	The curator is required to add a transaction in the database once they approve a sale request or an auction.	Medium
UR-008	As an auctioneer, I want to login to get auction hosting information.	Auctioneer has to enter the valid ID and password combination in the required fields.	High
UR-009	As an auctioneer, I want to see the auction and artifact sale details that has to be conducted by me.	The Auctioneer has to enter their details in order to fetch the auction that are to be hosted by them.	Medium
UR-010	As an auctioneer, I want to assess the bids and declare selected buyer if any.	The Auctioneer has to initiate the auction process and choose the most appropriate bid and enter the corresponding buyer.	High
UR-011	As an art collector, I have to register an account and login so I can use the special features of the system.	The collector is required to have an ID and password. The collector has register this combination and enter the correct ID and password combination in the required fields for logging in.	High
UR-012	As an art collector, I want to search for an artifact based on artist, value, age etc.	The collector is required to know the details and format of the search parameters to make the search.	High
UR-013	As an art collector, I want to know the status of that artifact and check if it is up for sale or auction.	The collector is required to know the Artifact details such as the name/ID to fetch the status.	Medium
UR-014	As an art collector, I want to know the auction details for a given artifact.	The collector is required to know the Artifact details such as the name/ID to fetch the auction details, if any.	High
UR-015	As an art collector, I want to submit a bid of my choice and get the auction result when available.	The collector has to enter the bid amount and the artifact ID to submit a bid.	High
UR-016	As an art collector, I want to propose a sale of my artifact to the Museum.	The collector is required to submit a sale request by entering the artifact details and sell price.	Medium
UR-017	As an art collector, I want to maintain and access my transactions with the Museum.	The art collector is required to be enter the search criteria, if any.	Medium

5.

UI Mockups:

Kevall D. Shach

UI Mockups - Command Line Interface

①

LOGIN / REGISTER

→ Hello! Welcome to <<Museum>> Web portal!

*

→ Are you a returning User (y/n): <<user enters>>

* = (y) →

→ Enter your User ID: <<user enters>>

→ Enter your Password: <<user enters>>

* = (n) →

→ Please enter your User ID: <<user enters>>

→ Please enter your Password: <<user enters>>

→ You have been registered!

Post-login InterfaceSYS-ADMIN MENU

②

→ Hello! Please select an operation :-

(1) Add/Remove User

(2) Add/Remove Artifact

(3) View Artifact details

(4) View all Users

(5) Logout

→ Enter your choice: <<admin enters 1-5>> *

* = 1 ③

→ Enter [Add/Remove] followed by User ID:

<<admin enters>>: Remove 31312

→ { CASE: User successfully removed.

{ CASE: User ID not found, re-enter or return

* = 3 ④

Artifact_ID	Artifact-Name	Artist	Status	Value
11031	Monk Statue	Rahul	closed	3131
21019	Indian Bird	Tim	auction	112
78312	Eye of Skadi	Jay	closed	14934

CURATOR MENU

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→ Hello! Please select an operation :-

- (1) View all Artifacts
- (2) Search for Artifact
- (3) Update Artifact Status
- (4) View Sale Requests
- (5) Evaluate Sale Request
- (6) Logout

→ Enter your choice : << Curator enters 1-6 >> *

* = 2 6

→

Select search criteria followed by value :-

- (1) Artifact Name
- (2) Artist
- (3) Artifact ID
- (4) Status
- (5) Value

Example : << user enters >> : 2 "M. F. Hussain"

<< Output >> :-

Artifact-ID	Artifact Name	Artist	Status	Value
33771	Red Cat	M.F. Hussain	open	10000
89110	Brown kid	M.F. Hussain	open	3100
42113	Yellow cornel	M.F. Hussain	closed	11100

Example : << user enters >> : 2 "M. F. Hussain", 4 "closed"

<< outputs >> :

Artifact-ID	Artifact Name	Artist	Status	Value
42113	Yellow cornel	M.F. Hussain	closed	11100

* = 4

<<outputs>>

Request-ID	Collector-ID	Artifact-ID	Price
99378	12349	13412	3780
41321	96796	22311	1100
87552	68344	98321	33999
31139	39622	22210	200

* = 5

→ Enter the Request-ID followed by decision (App/Ref):

<< Curator enters >> : 41321 Ref

{ CASE : Sale Request was Rejected.

{ CASE : Sale Request not found, re-enter or return

COLLECTOR MENU

8

→ Hello! Please select an operation :-

- (1) Add/Remove my Artifacts
- (2) View my Artifacts
- (3) View museum Artifacts
- (4) Search museum Artifacts
- (5) View Auctions
- (6) Search Auctions
- (7) Submit Sale Request
- (8) Submit Bid
- (9) View my Transactions

→

Enter your choice : <<collector enters 0-9>> *

* = 5

<<outputs>>

Auction-ID	Artifact-ID	Auction-Date	Auctioneer-ID
212	11341	03/04/18	21314
299	29875	31/05/18	99871
314	63461	20/06/18	69321
478	22773	21/06/18	14349

* = 8

→ Enter Auction-ID followed by Bid Amount :

<< collector enters >> : 314 10000

→ { CASE : Bid successfully submitted
CASE : Auction-ID not found.

⑩

Auctioneer's MENU

→ Hello! Please select an operation :-

- (1) View Rating and Auction count
- (2) View myAuctions
- (3) conclude Auction
- (4) Logout

→ Enter your choice : << Auctioneer enters 1-4 >>

⑪

* = 3

→ Enter Auction-ID :

<< Auctioneer enters >> : 314

→ { CASE : < User-ID > wins with bid of < bid >
CASE : No bids submitted
CASE : Auction-ID not found

6. Class Diagram

