Here is the POC topic that you are supposed to complete within one week. Please inform in this group chat once you complete your POC and share the GitHub link with Stephen. Please reach out if you have any queries.

Title: Live Auction System

Usecase: Build a real-time auction system where users can bid on items in real-time. Use serverless functions to handle bid submissions, update prices, and notify users about new bids.

Use Serverless Framework for implementation.

You are supposed to share the documentation as mentioned below:

1. The documentation should demonstrate a clear understanding of the problem statement.
2. The solution approach should be well-defined.
3. An architecture diagram must be included to illustrate the proposed solution.
4. A justification for the chosen solution approach should be provided.
5. Finally, the code should be available in a GitHub repository for review.

**Auth Service**

endpoints:

POST - https://oeiiqhlm4f.execute-api.us-west-1.amazonaws.com/dev/register

POST - https://oeiiqhlm4f.execute-api.us-west-1.amazonaws.com/dev/login

GET - https://oeiiqhlm4f.execute-api.us-west-1.amazonaws.com/dev/get\_users

GET - https://oeiiqhlm4f.execute-api.us-west-1.amazonaws.com/dev/users\_by\_id/{id}

functions:

register: auction-auth-poc-dev-register

login: auction-auth-poc-dev-login

getUsers: auction-auth-poc-dev-getUsers

getUserById: auction-auth-poc-dev-getUserById

**Bidding Service**

endpoints:

POST - https://rpcjif1y3h.execute-api.us-west-1.amazonaws.com/dev/add\_item

GET - https://rpcjif1y3h.execute-api.us-west-1.amazonaws.com/dev/get\_items

POST - https://rpcjif1y3h.execute-api.us-west-1.amazonaws.com/dev/place\_bid

POST - https://rpcjif1y3h.execute-api.us-west-1.amazonaws.com/dev/update\_bid

POST - https://rpcjif1y3h.execute-api.us-west-1.amazonaws.com/dev/close\_bid

functions:

addItem: auction-bididng-poc-dev-addItem

getItems: auction-bididng-poc-dev-getItems

placeBid: auction-bididng-poc-dev-placeBid

updateBid: auction-bididng-poc-dev-updateBid

closeBid: auction-bididng-poc-dev-closeBid

**Endpoints:**

1. SignUp

- name

- email

- mobileNumber

- password

- isDeleted

- isActive

2. Login

- email

- password

3. Add an item for auction(seller)

- itemId

- itemName

- price

- status

- Highest bid price

- buyerId(Highest bid placed buyer id)

4. View items added for auction(both buyer & seller)

-: return array of objects as a response

- itemId

- itemName

- price(added by seller)

- status

- Highest bid price

- buyerId(Highest bid placed buyer id)

5. Place a bid(buyer)

- itemId

- bid\_price

6. Update the price of bid(buyer)

- itemId

- bid\_price

- update\_bid\_price

7. Notify buyers if any new bid placed/ bid price updated(buyer)

8. Close an auction(seller)

- itemId

- status(closed)

-: notify respective buyer about the auction completed

Github URL: <https://github.com/anitha-optisol/sls-auction-system>

Postman URL: <https://gold-capsule-331447.postman.co/workspace/Team~ee7376e8-3d03-4eff-98e2-4d6a934a9acb/collection/25142271-c284358c-ecef-4c66-8e3c-69e812644c8b>