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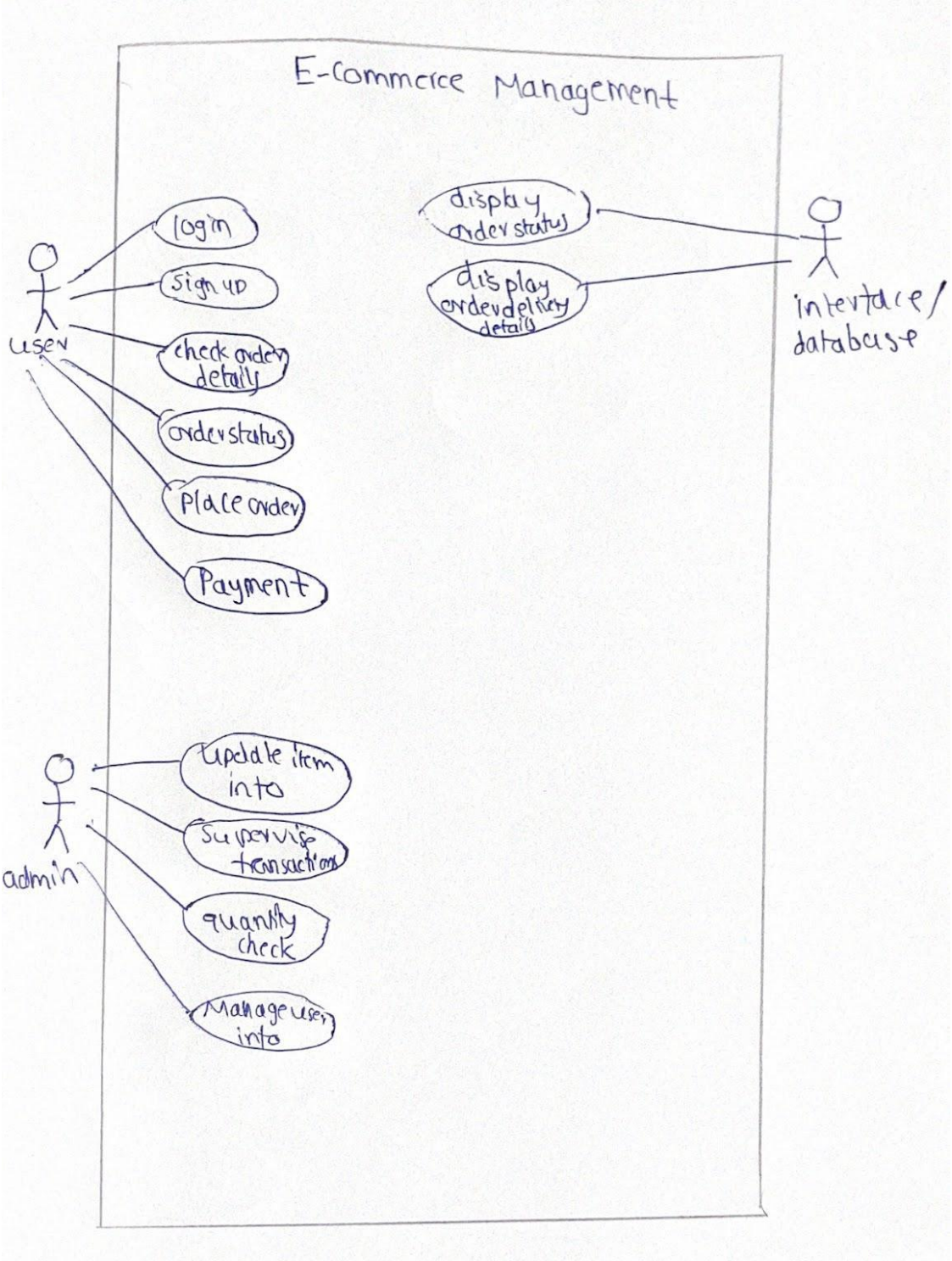
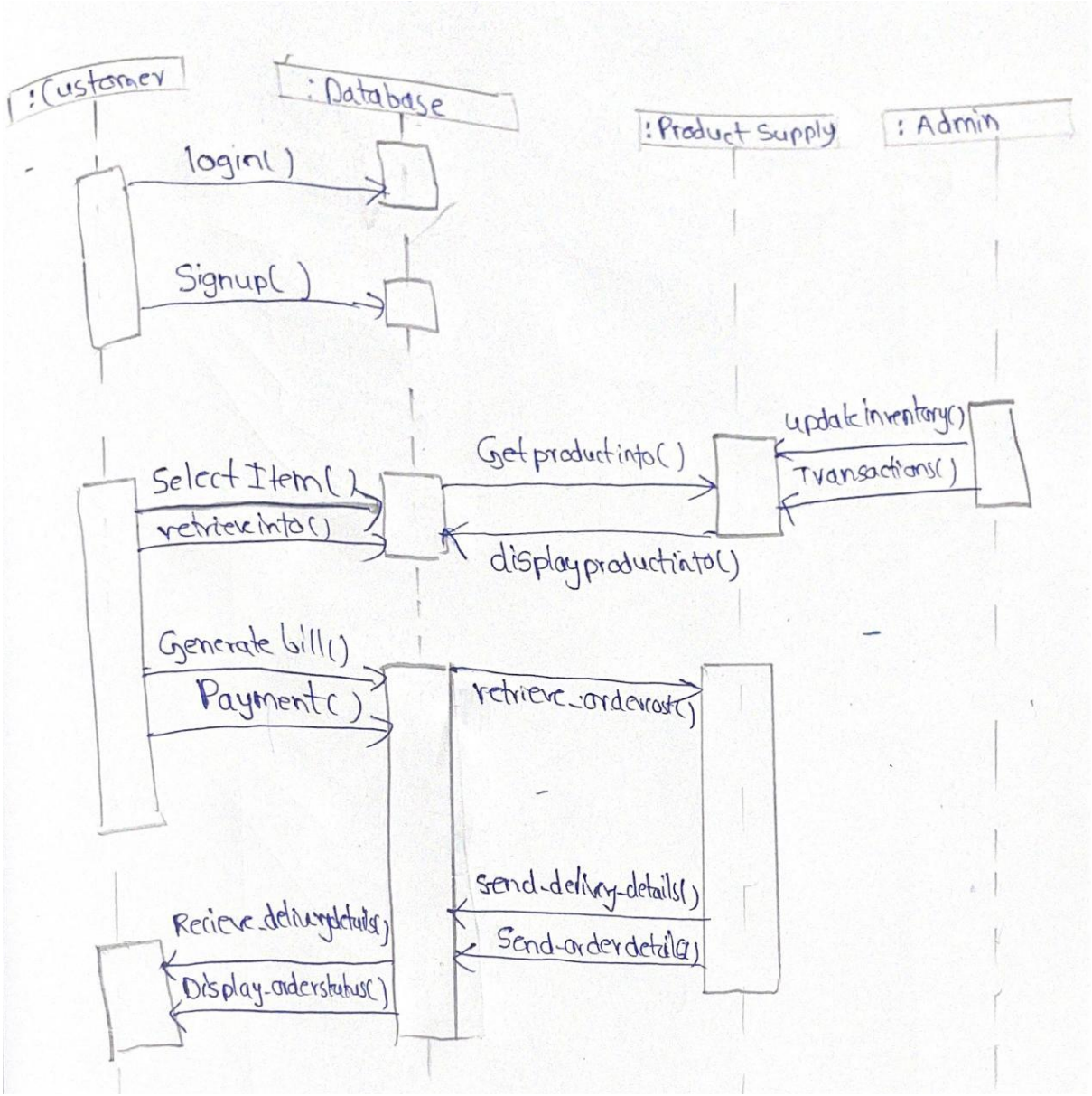


SEQUENCE DIAGRAM:



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QUERIES:

1)Write the command to run redis

```
(base) Chaturya:redis-stable apple$
(base) Chaturya:redis-stable apple$
(base) Chaturya:redis-stable apple$ brew services start redis
==> Successfully started `redis` (label: homebrew.mxcl.redis)
```

2)Use ping command

```
(base) Chaturya:~ apple$ brew services start redis
(base) Chaturya:~ apple$ redis-cli ping
PONG
(base) Chaturya:~ apple$ redis-cli ping hi
"hi"
(base) Chaturya:~ apple$ redis-cli ping amazon
"amazon"
```

3)use append key command

```
127.0.0.1:6379> Append mykey "Amazon"
(integer) 14
```

4)Use BGSAVE

```
127.0.0.1:6379> BGSAVE
Background saving started
```

5)Set to amazon key

```
127.0.0.1:6379> SET mykey "amazon"
OK
```

6)use BITCOUNT command

```
127.0.0.1:6379> BITCOUNT key
(integer) 0
127.0.0.1:6379> BITCOUNT key
(integer) 0
127.0.0.1:6379> BITCOUNT mykey
(integer) 27
127.0.0.1:6379> BITCOUNT mykey 0 0
(integer) 3
127.0.0.1:6379> BITCOUNT mykey 2 6
(integer) 19
```

7)create key named amazon

```
127.0.0.1:6379>  Append amazon  "Amazon"
(integer) 6
```

8)Display Keys

```
127.0.0.1:6379>  keys *?
 1) "mykey"
 2) "amazon"
```

9)set the key created

```
127.0.0.1:6379> SET amazon "Amazon"
OK
127.0.0.1:6379>
```

10)set client name to chaturya

```
127.0.0.1:6379> CLIENT SETNAME chaturya
OK
```

11)display client name

```
127.0.0.1:6379> CLIENT GETNAME
"chaturya"
127.0.0.1:6379>
```

12)use client list and display the output

```
127.0.0.1:6379> CLIENT LIST
id=3 addr=127.0.0.1:50044 laddr=127.0.0.1:6379 fd=8 name=chaturya age=1977 idle=0 flags=N db=0 sub=0 psub=0 multi=-1 qbuf=26 qbuf-free=36832 argv-mem=10 obl=0 oll=0 omem=0 tot-mem=54298 events=r cmd=clien
t user=default redir=-1
127.0.0.1:6379>
```

13)use set command

```
127.0.0.1:6379> set chaturya 12
OK
127.0.0.1:6379>  Decr chaturya
(integer) 11
127.0.0.1:6379> incr chaturya
(integer) 12
```

14)use increase command

```
127.0.0.1:6379> set chaturya 12
OK
127.0.0.1:6379>  Decr chaturya
(integer) 11
127.0.0.1:6379> incr chaturya
(integer) 12
```

15)use decrease command


```
127.0.0.1:6379> set chaturya 12
OK
127.0.0.1:6379>  Decr chaturya
(integer) 11
127.0.0.1:6379> incr chaturya
(integer) 12
```


16)check if the key string exists

```
127.0.0.1:6379> exists chaturya
(integer) 1
```

17)delete the keystring and then check

```
127.0.0.1:6379> del chaturya
(integer) 1
127.0.0.1:6379> exists chaturya
(integer) 0
```

18)set greeting amazon great india festival welcomes you

```
127.0.0.1:6379> set greeting "AMAZON GREAT INDIA SHOPPING FESTIVAL WELCOMES YOU"

OK
127.0.0.1:6379> expire greeting 10
(integer) 1
127.0.0.1:6379>
```

19)set the greeting to expire in 10 seconds

```
127.0.0.1:6379> expire greeting 10
(integer) 1
127.0.0.1:6379>
```

20)use ttl greeting command

```
127.0.0.1:6379> ttl greeting
(integer) -2
```

21)create multiple keys at the same time

```
127.0.0.1:6379> Mset key "Amazon" key1 "customer" key2 "chaturya"
OK
```

22)reset key name

```
127.0.0.1:6379> Rename key1 AMAZONSALE
OK
```

23)display all the key names after creation and updation

```
127.0.0.1:6379> keys *?
1) "key"
2) "key2"
3) "mykey"
4) "greeting"
5) "amazon"
6) "AMAZONSALE"
127.0.0.1:6379>
```

24)**enter 5 customer names into list named customer**

```
127.0.0.1:6379> Lpush customer "Chaturya"
(integer) 1
127.0.0.1:6379>  Lpush customer "Baba"
(integer) 2
127.0.0.1:6379>  Lpush customer "Mythili"
(integer) 3
127.0.0.1:6379> Lpush customer "Ram"
(integer) 4
127.0.0.1:6379> Lpush customer "Girija"
(integer) 5
127.0.0.1:6379>
```

25)display all customer names in the list

```
127.0.0.1:6379> Lrange customer 0 4
 1) "Girija"
 2) "Ram"
 3) "Mythili"
 4) "Baba"
 5) "Chaturya"
```

26)display only the names of 2 customers

```
127.0.0.1:6379>  Lrange customer 3 4
 1) "Baba"
 2) "Chaturya"
 127.0.0.1:6379>
```

27)find number of customers

```
127.0.0.1:6379> LLEN customer
 (integer) 5
```

28) add one more member to the list and remove them

```
127.0.0.1:6379> Lpush customer "seetha"
 (integer) 5
127.0.0.1:6379>  Lpop customer 1
 1) "seetha"
```

29)insert a new value before chaturya using Linsert command

```
127.0.0.1:6379>  Linsert customer before "Chaturya" "Akhil"
 (integer) 5
```

30)use flush all and remove the values

```
127.0.0.1:6379> FLUSHALL
OK
```

31)create a set with all payment modes available

```
127.0.0.1:6379> Sadd paymentmethods "COD"
(integer) 1
127.0.0.1:6379>  Sadd paymentmethods "Paytm"
(integer) 1
127.0.0.1:6379>  Sadd paymentmethods "Phonepe"
(integer) 1
127.0.0.1:6379>  Sadd paymentmethods "Creditcard"
(integer) 1
127.0.0.1:6379>  Sadd paymentmethods "EMI"
(integer) 1
127.0.0.1:6379>  Sadd paymentmethods "Netbanking"
(integer) 1
```

32)return all the members of the set value

```
127.0.0.1:6379> SMEMBERS paymentmethods
1) "Creditcard"
2) "Paytm"
3) "COD"
4) "Netbanking"
5) "Phonepe"
6) "EMI"
```

33)check if netbanking and crypto currency trade are available in payment options using SISMEMBER

```
127.0.0.1:6379>  SISMEMBER paymentmethods "Netbanking"
(integer) 1
127.0.0.1:6379>  SISMEMBER paymentmethods "cryptotrade"
(integer) 0
```

34)find number of paymentmethods available

```
127.0.0.1:6379> SCARD paymentmethods
(integer) 6
```

35)Removes and returns a random member from a set

```
127.0.0.1:6379> SPOP paymentmethods
"Netbanking"
```

36)Due to covid restriction COD option is not available so move it to a separate list called invalidmodeofpayment and display the payment methods available now and also invalid modes of payment

```
127.0.0.1:6379> SMOVE  paymentmethods  invalidmodeofpayment "COD"
(integer) 1
127.0.0.1:6379> SMEMBERS paymentmethods
1) "Phonepe"
2) "Creditcard"
3) "EMI"
4) "Paytm"
127.0.0.1:6379> SMEMBERS  invalidmodeofpayment
1) "COD"
```

37)now that covid declined COD is accepted again so make a new set by joining the two sets previously created and display members

```
127.0.0.1:6379> SUNIONSTORE validmodes  paymentmethods invalidmodeofpayment
(integer) 5
127.0.0.1:6379>  SMEMBERS validmodes
1) "EMI"
2) "Phonepe"
3) "Paytm"
4) "Creditcard"
5) "COD"
```

38)Quit redis db

```
127.0.0.1:6379> quit
(base) Chaturya:redis-stable apple$
```

39)create a hash field with value chaturya

```
(integer) 0
127.0.0.1:6379> HSET myhash amazonfield "Chaturya"
(integer) 1
127.0.0.1:6379> HGET myhash amazonfield
```

40)display that hash value

```
(integer) 1
127.0.0.1:6379> HGET myhash amazonfield
"Chaturya"
127.0.0.1:6379> HDEL myhash field
```

41)display all the hash values

```
127.0.0.1:6379> HGETALL myhash
1) "field1"
2) "Chaturya"
3) "amazonfield"
4) "Chaturya"
```

42)delete a hash

```
127.0.0.1:6379> HDEL myhash field
(integer) 1
127.0.0.1:6379> HGETALL myhash
```

43)set a value to the hash

```
4)  Chaturya
127.0.0.1:6379> HSET myhash field1  4
(integer) 0
127.0.0.1:6379> HINCRBY myhash field1 1
(integer) 5
```

44)increment hash value

```
(integer) 0
127.0.0.1:6379> HINCRBY myhash field1 1
(integer) 5
```

45)decrement hash value

```
(integer) 5
127.0.0.1:6379> HINCRBY myhash field1 -1
(integer) 4
```

46)use HLEN command

```
127.0.0.1:6379> HLEN amazonfield
(integer) 0
```

47) use HMGET command

```
127.0.0.1:6379> HSET myhash field6 "Amazon"
(integer) 0
127.0.0.1:6379> [11:58 am, 08/11/2021] Chaturya: HSET myhash field7 "Festival"
(error) ERR unknown command '[11:58'
127.0.0.1:6379> [11:58 am, 08/11/2021] Chaturya: HMGET myhash field6 field7 nofieldHSET myhash field7 "Festival"
(error) ERR unknown command '[11:58'
127.0.0.1:6379> HSET myhash field7 "Festival"
(integer) 0
127.0.0.1:6379> HMGET myhash field6 field7 nofield
1) "Amazon"
2) "Festival"
3) (nil)
```

48) use HSETNX command

```
3) (nil)
127.0.0.1:6379> HSETNX myhash field7 "Hello"
(integer) 0
127.0.0.1:6379> HSETNX myhash field9 "Hello"
(integer) 0
127.0.0.1:6379> HSETNX myhash field20 "Hello"
(integer) 1
127.0.0.1:6379>
```

49)add members to a sorted set

```
127.0.0.1:6379> ZADD amazon 1  delivered
(integer) 1
127.0.0.1:6379> ZADD amazon 2 processing
(integer) 1
127.0.0.1:6379> ZADD amazon 3  cancelled
(integer) 1
```

50) displaying values in sorted set

```
127.0.0.1:6379> ZRANGE amazon 0 2 WITHSCORES
1) "delivered"
2) "1"
3) "processing"
4) "2"
5) "cancelled"
6) "3"
```

51)remove an element from amazon

```
127.0.0.1:6379> ZREM amazon  delivered
(integer) 1
```

52)use ZLEXCOUNT command

```
127.0.0.1:6379> ZLEXCOUNT amazon - +
(integer) 2
```

53)use ZSCORE command

```
127.0.0.1:6379> ZSCORE amazon cancelled
"3"
```

54)use ZCOUNT

```
127.0.0.1:6379> ZCOUNT chaturya 1 2
(integer) 2
```

55)SET key named chatkey with value hello

```
127.0.0.1:6379> set chatkey helloooo
OK
```

56)display value of the key

```
127.0.0.1:6379> get chatkey
"helloooo"
```

57)use set key newval xx command

```
127.0.0.1:6379> set chatkey newval xx
OK
```

58)set counter to value 50

```
127.0.0.1:6379> set counter 50
OK
```

59)increase counter

```
127.0.0.1:6379> incr counter
(integer) 51
```

60)increase counter by 60

```
127.0.0.1:6379> incrby counter 60
(integer) 111
```

61)use mset

```
127.0.0.1:6379> mset a 10 b 20 c 30
OK
```

62)use mget

```
127.0.0.1:6379> mget a b c
1) "10"
2) "20"
3) "30"
```

63)use ZSCORE

```
127.0.0.1:6379> ZSCORE amazon  processing
"2"
127.0.0.1:6379>
```