DeviceTable

dvc_tbl_id (pk)	dn	dvc_cog_id	usr_tbl_id(fk)
1	12345asdf	dvc-usr-cog-12345asdf	1

dvc_cog_id	Will get update once a record is inserted in UserTable
usr_tbl_id(fk)	Will get update once a record is inserted in UserTable

Device Number	DN	12345asdf
Device User Cognito	DUC	dvc-usr-cog-12345asdf

Device Table	
User Table	

First a check will be done **DeviceTable** to see if the exists

If exists generate token with device number

if not exists
1. create a user in cognito using device id
2. create a record in UserTable
3. create a new entry in device table
--------update the DeviceTable with cognitoId and UserTableId-----

Proposal: Many users will enter website and
just browse. They may or may not make booking
which generates revenue. So why waste resource in aws?
Simply track devices using database.
As system needs token generate them with JWT.
Cognito generates token with JWT

UserTable

usr_tbl_id(pk)	cog_id	medium	login_logout_status	activity_status
1	dvc-usr-cog-12345asdf		1	FALSE	1
		Might not require		

medium
1 -> Device
2-> Email
3 -> Mobile
4 -> Tab

activity_status
1 -> Normal
2 -> Temporary Ban
3 -> Permanent Ban

DeviceTable

dvc_tbl_id (pk)	dn	dvc_cog_id	usr_tbl_id(fk)
1	12345asdf	dvc-usr-cog-12345asdf	1
2	67890zxcv	dvc-usr-cog-67890zxcv	2

Device Number	DN	67890zxcv
Device User Cognito	DUC	dvc-usr-cog-67890zxcv

Device Table	
User Table	

UserTable

usr_tbl_id(pk)	cog_id	medium	login_logout_status	activity_status
1	dvc-usr-cog-12345asdf	1	FALSE	1
2	dvc-usr-cog-67890zxcv	1	FALSE	1

Device has already been registered.
So an entry exists in **DeviceTable. [C1&C4]**
So no new entry in DeviceTable.

Device Number	DN	12345asdf
Mail User Cognito	DUC	mail-usr-cog-asif@gmail.com
User Email	DUE	asif@gmail.com

DeviceTable — No entry

dvc_tbl_id (pk)	dn	dvc_cog_id	usr_tbl_id(fk)
1	12345asdf	dvc-usr-cog-12345asdf	1
2	67890zxcv	dvc-usr-cog-67890zxcv	2

UserTable

usr_tbl_id(pk)	cog_id	medium	login_logout_status	activity_status
1	dvc-usr-cog-12345asdf	1	FALSE	1
2	dvc-usr-cog-67890zxcv	1	FALSE	1
3	mail-usr-cog-asif@gmail.com	2	FALSE	1

Steps

1. Device Number will be in the header.
   Using that fetch the **dvc_tbl_id (pk), usr_tbl_id(fk)** from device table. | Might not require

2. Decide wheather to create Cognito and DB User with **Email** Or Not
   Check if the email exists

   a) Query the **UserContactDeviceTable** with email
   b) Retun the result in form of list.
   c) Check if the list is empty

UserContactDeviceTable

u_c_d_id	contact	device_id	usr_tbl_id(fk)
1	asif@gmail.com	12345asdf	3
2	asif@gmail.com	67890zxcv	3

put a validation so that
only valid mail, phone number
can enter here

New Email
Step 2-c returned True

1. Create a **Cognito User id** with email
2. Make an Entry to **UserTable**
3. Make an entry to **UserContactDeviceTable** table. **As email is new there should be no mapping.**
4. Return a token

Old Email
Step 2-c returned False

1. No User will be created in cognito using email
2. Check if the user is mapped with device:
   12345asdf (Use the list fetched in step-2)
   yes => No Action
   no => **Create an entry in UserContactDeviceTable**
3. Return a token

Device Number	DN	67890zxcv
Mail User Cognito	DUC	mail-usr-cog-asif@gmail.com
User Email	DUE	asif@gmail.com

Device has already been registered.
So an entry exists in **DeviceTable. [C1&C4]**
So no new entry in **DeviceTable.**

Decide wheather to create Cognito and DB User with Email Or Not.
Check if the **email** exists

   a) Query the UserContactDeviceTable with email
   b) Retun the result in form of list.
   c) Check if the list is empty

List is not empty => email already exists

1. No user will be created.
2. Check if the user is mapped with device:
   67890zxcv (Use the list fetched in **b**)
   yes => No Action
   no => Create an entry in
   UserContactDeviceTable
3. Return a token

Device 1 User adventure@gmail.com
Device 2 User adventure@gmail.com

DeviceTable   No entry

Device Number	DN	12345asdf			Device Number	DN	12345asdf
Mail User Cognito	DUC	mail-usr-cog-adv@gmail.com			Mail User Cognito	DUC	mail-usr-cog-adv@gmail.com
User Email	DUE	adv@gmail.com			User Email	DUE	adv@gmail.com

dvc_tbl_id (pk)	dn	dvc_cog_id	usr_tbl_id(fk)
1	12345asdf	dvc-usr-cog-12345asdf	1
2	67890zxcv	dvc-usr-cog-67890zxcv	2

UserTable

usr_tbl_id(pk)	cog_id	medium	login_logout_status	activity_status
1	dvc-usr-cog-12345asdf	1	FALSE	1
2	dvc-usr-cog-67890zxcv	1	FALSE	1
3	mail-usr-cog-asif@gmail.com	2	FALSE	1
4	mail-usr-cog-adv@gmail.com	2	FALSE	1

Device will already be registered. [C1&C4]

Find out if new user need to be created with mail
Check **UserContactDeviceTable** with email.

    a) Query the **UserContactDeviceTable** with email
    b) Retun the result in form of list.
    c) Check if the list is empty

UserContactDeviceTable

u_c_d_id	contact	device_id	usr_tbl_id(fk)
1	asif@gmail.com	12345asdf	3
2	asif@gmail.com	67890zxcv	3
3	adv@gmail.com	12345asdf	4
4	adv@gmail.com	67890zxcv	4

List is Empty => **Email is new**
        => Create new user   Email is new
        => map device with email   There should be no mapping.

List is not Empty => Email is already registered
        => check if device and email is mapped   No entry in UserTable
        => no => map device with email   If no mapping then
                map device with email

Device 1 Mobile 1
Device 2 Mobile 1

Mobile Number can be used to login
Mobile Number can be mapped with email in user profile
If Mobile Number is mapped with email then email becomes primary
One phone number with one email

Mobile Number used.
In Profile Email was not added

Depending on Adding mail after phone registration clean up can be done

Device Number	DN	1928aqsw
Phone User Cognito	DUC	phn-usr-cog-0210
User Phone	DUP	+8801820990210

Device has already been registered.
So an exists in **DeviceTable**. [C1&C4]
A user is already in UserTable fo device.
So no new entry in DeviceTable.

DeviceTable

Decision
wheather to create Cognito and DB User with Phone Or Not
   Check if the Phone Number exists

   a) Query the **UserContactDeviceTable** with Phone Number
   b) Retun the result in form of list.
   c) Check if the list is empty

dvc_tbl_id (pk)	dn	dvc_cog_id	usr_tbl_id(fk)
1	12345asdf	dvc-usr-cog-12345asdf	1
2	67890zxcv	dvc-usr-cog-67890zxcv	2
3	1928aqsw	dvc-usr-cog-1928aqsw	5
4	3746edrf	dvc-usr-cog-3746edrf	7

New PhoneNumber
List Empty check returned **True**

1. Create a Cognito User id with PhoneNumber
2. Make an Entry to **UserTable**
3. Make an entry to **UserContactDeviceTable** table. As PhoneNumber is new there should be no mapping.
4. Return a token

UserTable

usr_tbl_id(pk)	cog_id	medium	login_logout_status	activity_status
1	dvc-usr-cog-12345asdf	1	FALSE	1
2	dvc-usr-cog-67890zxcv	1	FALSE	1
3	mail-usr-cog-asif@gmail.com	2	FALSE	1
4	mail-usr-cog-adv@gmail.com	2	FALSE	1
5	dvc-usr-cog-1928aqsw	3	FALSE	1
6	phn-usr-cog-0210	4	FALSE	1
7	dvc-usr-cog-3746edrf	3	FALSE	1

UserContactDeviceTable

u_c_d_id	contact	device_id	usr_tbl_id(fk)
1	asif@gmail.com	12345asdf	3
2	asif@gmail.com	67890zxcv	3
3	adv@gmail.com	12345asdf	4
4	adv@gmail.com	67890zxcv	4
5	+8801820990210	1928aqsw	6
6	+8801820990210	3746edrf	6

Device Number	DN	3746edrf
Phone User Cognito	DUC	phn-usr-cog-0210
User Phone	DUP	+8801820990210

Device has already been registered.
So an entry exists in **DeviceTable**. [C1&C4]
So no new entry in **DeviceTable**.

Decide wheather to create Cognito and DB User with PhoneNumber Or Not.
Check if the **email** exists
 	
   a) Query the **UserContactDeviceTable** with **PhoneNumber**
  b) Retun the result in form of list.
  c) Check if the list is empty						

Existing PhoneNumber
List Empty check returned **False**
	1. No user will be created.
	2. Check if the user is mapped with device:
	   3746edrf (Use the list fetched in b)
	  yes => No Action
	  no => Create an entry in
	       UserContactDeviceTable
	3. Return a token					