

EMPLOYEE SEARCH APP

DB table:

Table 1: Entry of all successful verified mobile number and successful verified employee ID. User in this table alone can have the permission to view mobile number

Table 2: Entry of all successful verified mobile number but unsuccessful in employee ID verification. This entry will be moved to Table1 after manual verification by Admin (its ME!)

Table 3: Entry of all unsuccessful mobile number verification attempt. It will have name, gender, 2 employee IDs and the last entered wrong mobile number (out of 7 unsuccessful mobile number verification)

Table 4: Entry of employee ID, which will be used by the cloud code for Employee ID verification. This table will be frequently updated by admin. Whenever one employee ID is successfully verified by cloud code, that corresponding employee ID must be removed.

Table 5: User searched for an employee ID and it is not found in the database, has all been collected here in this DB table.

Project has 2 verifications:

1. Mobile verification (done by cognalys) at page 1.
2. Employee ID verification (done by cloud code with check on DB table4 or manually by admin)

PAGE 1: MOBILE NUMBER VERIFICATION PAGE

- Default:
 - Mobile number text box empty
 - Checkbox of Terms & Conditions unchecked
 - Verify button is disabled
- Check valid numbers entered: The entered values must be 10 digits and should not have alphabets. (Taken care by the cognalys, since it has number based keyboard only.)
- Terms and conditions: Terms & conditions should be a link. Clicking on it should take to a popup with a huge message displayed. Since these terms will be inserted by me after project submission, I need the steps / guidance to append these Terms and Conditions by me. (Right now the popup should display blank page)
- Verify button enable: Verify button can be enabled only when 2 criteria pass. First criteria is Mobile number Text box should NOT be empty. Second criteria is Checkbox of Terms & conditions should be checked.

- Click Verify button: Verify button take the code to the Third party API: mobile number verification link as follows:
Cognalys:
<https://www.cognalys.com/about/>
<https://www.cognalys.com/androidlibrary/>
<https://cognalys.freshdesk.com/support/solutions>
Sample cognalys app is available in website to install in mobile and check
- Verification Success: Check on Table 1 and Table 2.
 - Number already present in Table 1 then move to Page 3 in android client.
 - Number already present in Table 2 then overwrite on it.
 - Number NOT present in both the Table then create new row in Table2
- Verification Failure: Increase the failure_counter by 1. If failure_counter ==7 then move to page 2 and make an entry in DB Table3. If failure_counter !=7 then stay on page1. (Failure_counter will be maintained locally by android client that has the count of number of verification failures.)

PAGE 2: USER INPUT PAGE

- Take the user inputs for the fields Name and Gender as Compulsory. Add a red star mark to tell that it is compulsory.
- Also any one Employee ID is compulsory but not both employee ID. It is expected that user may keep the first input text box as blank or the second input text box. All we expect is any one Employee ID.
- Do not add a red star mark near employee ID fields, but VALIDATE in the CLIENT itself for both the input box should NOT be empty.
- Referral box is optional entry. It should be the mobile number of the user who referred, If not blank. If the referred / entered mobile number is found in DBtable1 then increase the phone number view count with +1 (There is a possibility of loophole here, need proper logic).
- Take me to Search page button: Click
 - User name, gender and emp id uploaded in DB across the verified mobile number in Table 2.
 - A special column opened in the same row and the value will be the referral's mobile number.
 - In case of employee ID verification by cloud code is successful, that is, the employee ID is present in the DB table 4, then the entire row is moved from Table1 to Table2. During the movement, the special column for referral number found in Table2 will not be seen in Table1, instead the corresponding referral number's "view count" will be increased by 1, if that referral number is found in Table1.

PAGE3: SEARCH PAGE

- The page1 and page2 are one time pages. That is they occur once after the fresh installation. Once they moved to Page3, whenever the app is opened it is going to show Page3 only.
- Search page has the text field to enter the ID of the employee whose name and number he/ she want to know.
- Click on search page should have a check for “Enter Employee ID” field is not blank. Check should occur locally in the android client.
 - If search field is not empty then it should look for the employee ID in table 1 and table2 and respond it with the Name alone. (Mobile number should not be there, but an icon to view mobile number should be present)
 - If the search name is not present in the table1 or table2, it should return “ Search user has not yet registered. We will get in touch with the person for you shortly”. The searched user’s employee ID is entered in table5
- Click on view mobile number:
 - The cloud code should check whether the current user is in Table1. The Phone number view count will only be present in Table1. If the current user Not in table1, then display message “You cannot view phone number since your employee ID is still under validation or your employee ID may be Invalid.”
 - Check for the current user’s mobile number view count. If not zero then allow user to proceed further. Or display message to “Buy credit or refer friend to earn View count”
 - The current user is male, then check for the requested employee is female or vice versa. If this check fails, then display message “You cannot view same gender’s mobile number”. If check pass, move on to next check.
 - Show phone number of the requested user as popup to the current user. Trigger a push notification to the corresponding requested user from the current user.
- View credits: Its just a toast message that display the number of view credits available for the user.
- Logs / Notifications: It’s a collection of who viewed my number and whose number I viewed. The message being appended and showed like a subpage.
- Buy credits: Credit symbol with user can enter how many number he wants to view. N x 100 will be multiplied and take to payment gateway. Usual payment methods to be followed.

- Refer friend: A message stating, “Hi im using EmployeeSearch app. <http://play.google.com/xxxxx> Please install and user my mobilenumbr 9xxxxxxx during referral mobile number” and it should suggest mobile native message or whatsapp. So from here, user can select his contacts to refer.
- Protect number: currently removed.

COMMENTS:

This is just a normal procedure for having 5 DB tables. But request you to design accordingly so as to avoid more API calls from single user. The first 3 DBs can be converted into single key or something like that which gives a fool proof concept.