

TRUECALLER

Overview

This project aims to abolish anonymity from the world by allowing people to look up for any unknown numbers they wish to find by using this app called Truecaller.

Goals

- 1. Create a database for all global working cellular numbers.
- Allow users to search for any number belonging to any individual.
- 3. Make users aware of incoming spam calls.

Specifications

The app works by consent of user to share their as well as their contacts details to the app. Fundamentally it hold records for all users as well as their contacts. The user can then search for any number available in this database. The app uses user's approximate locations to locate the same. Users are allowed to set up their personal profile information.

Spam and Blocked Contacts

The annoying repeating incoming calls to advert can be minimized or blocked by this feature.

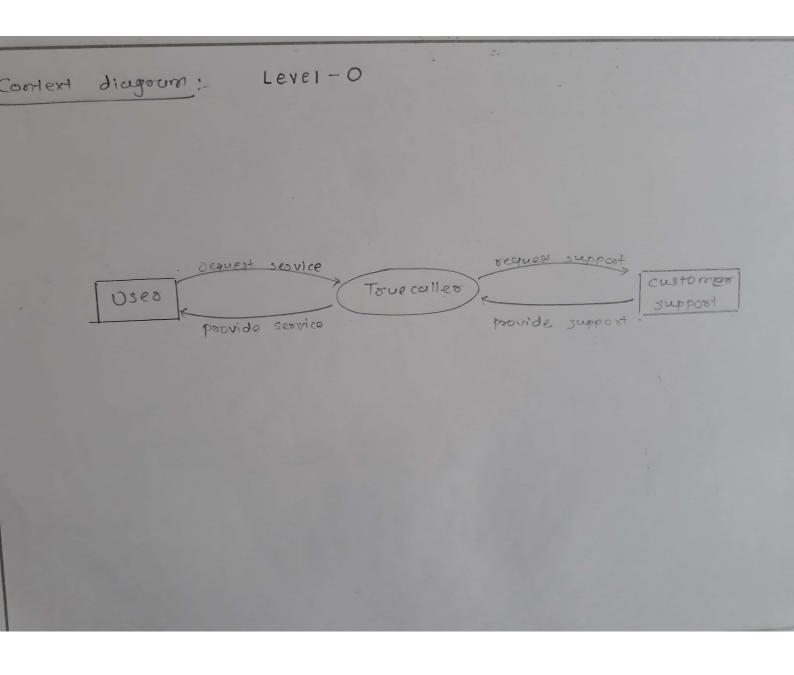
Milestones

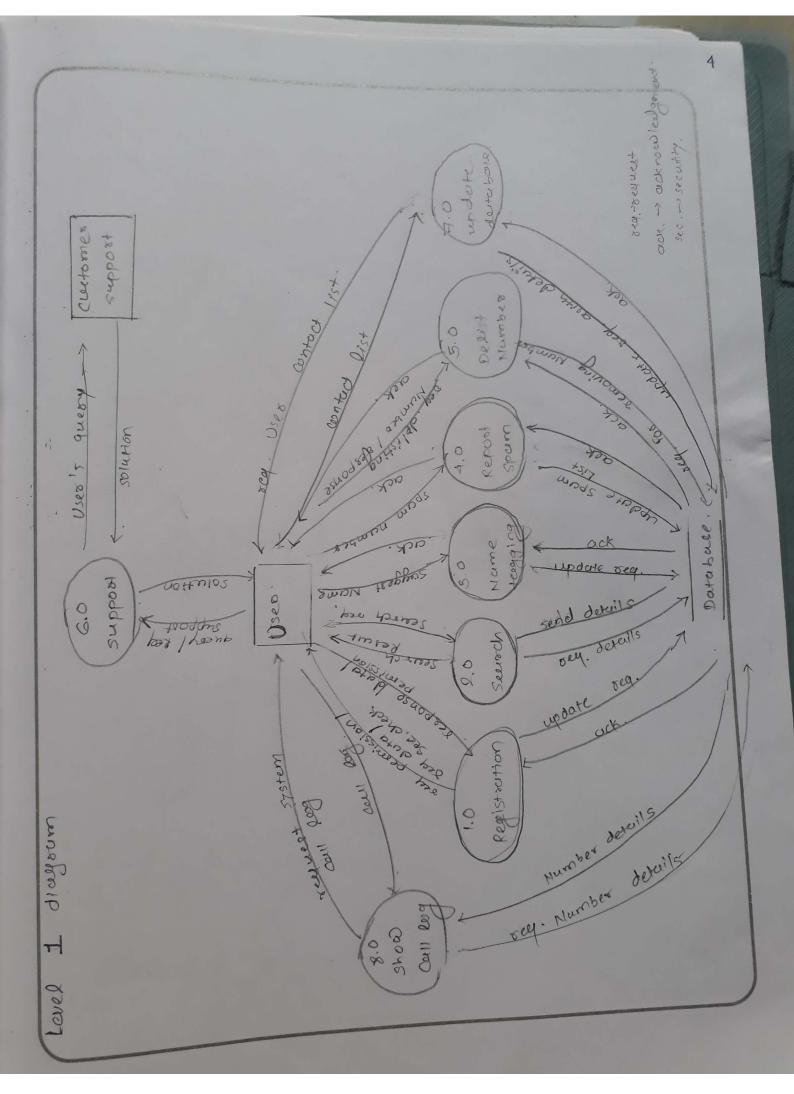
Connect to the world I.

It's like maintaining transparency among all the users of the world if the app is prevalent in most parts.

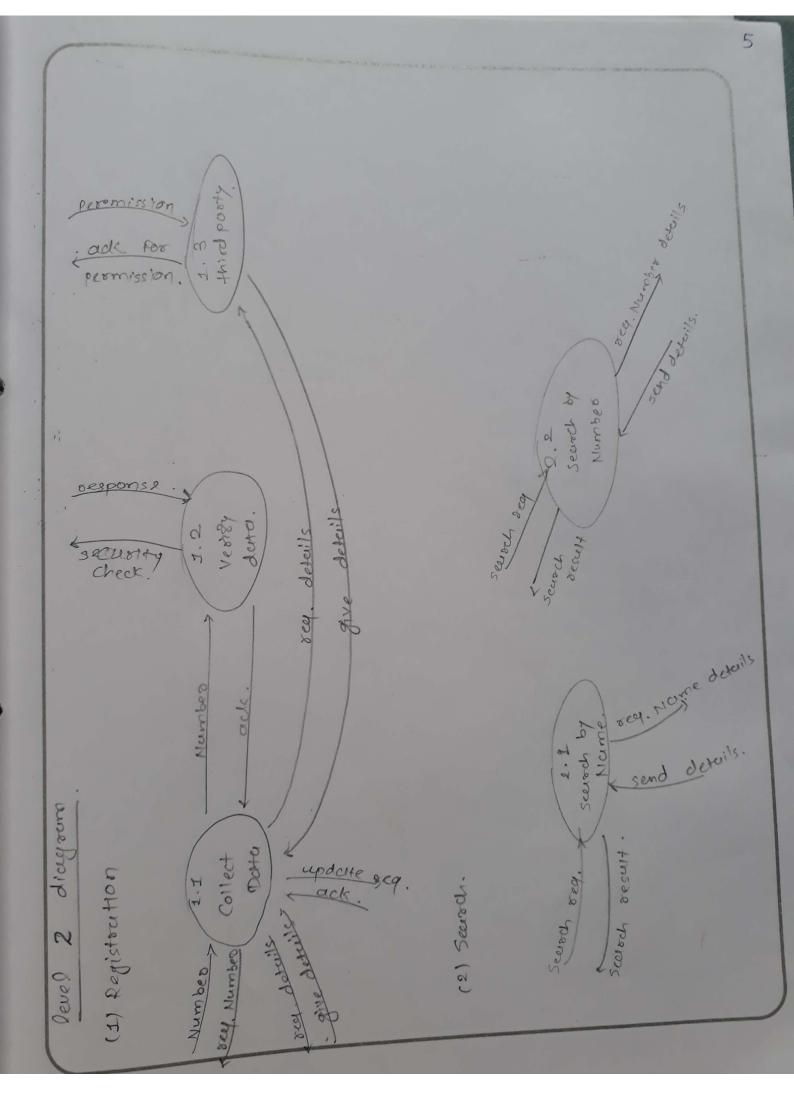
No anonymity II.

Receive no more unknown calls from anyone. Relieve yourself from it if any.

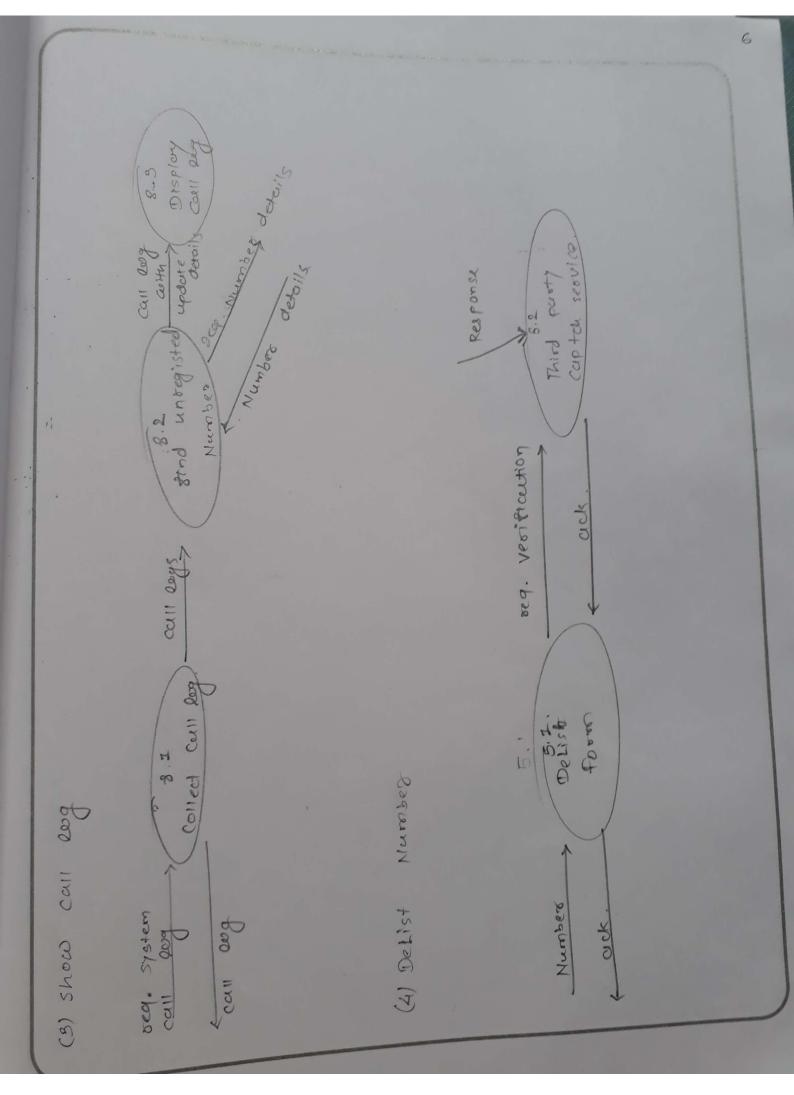




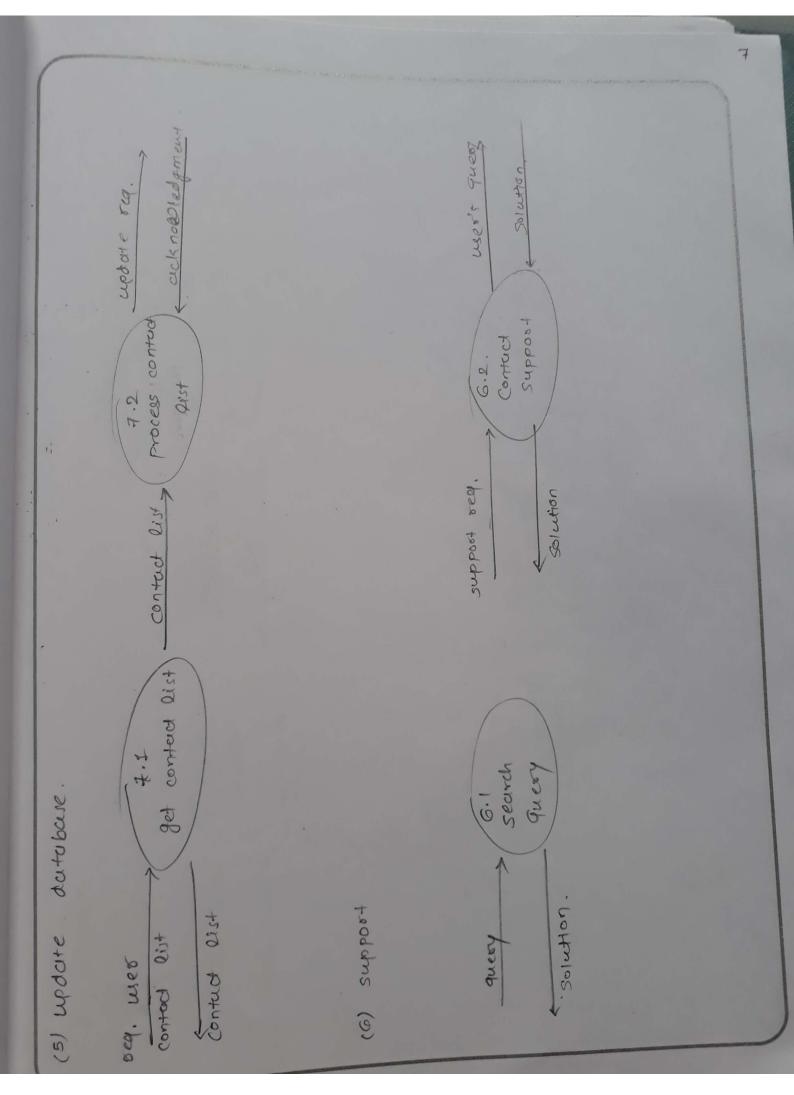
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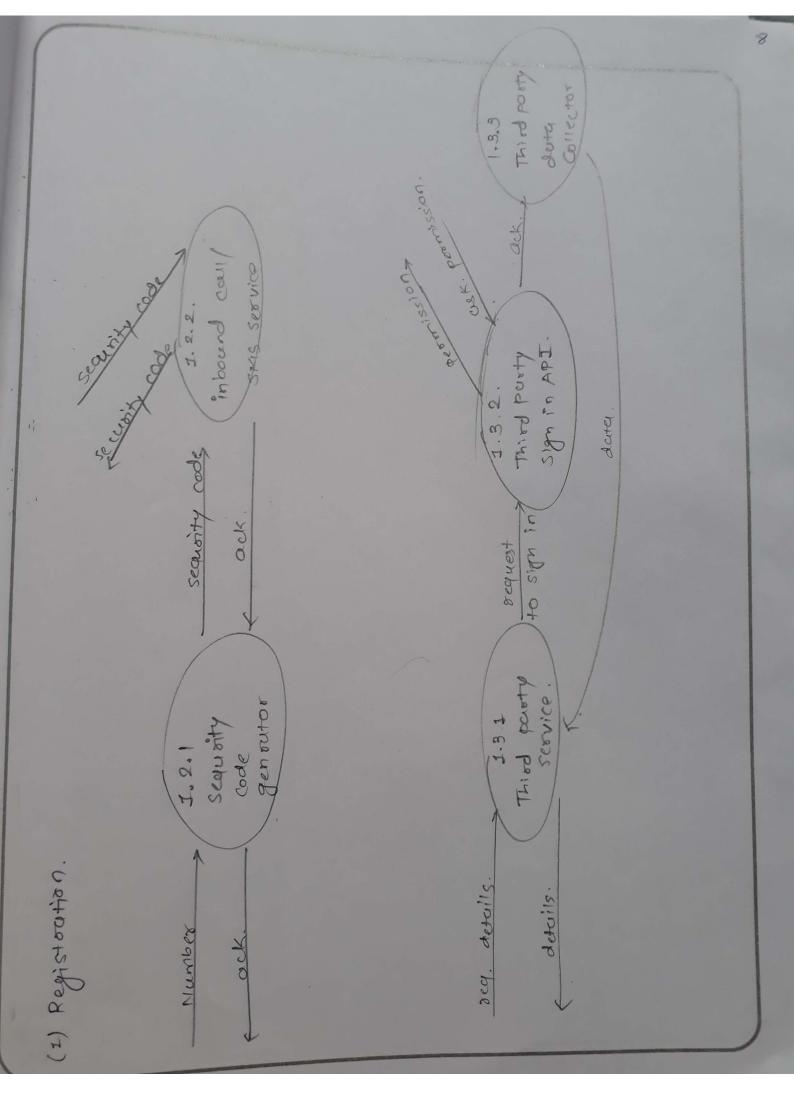
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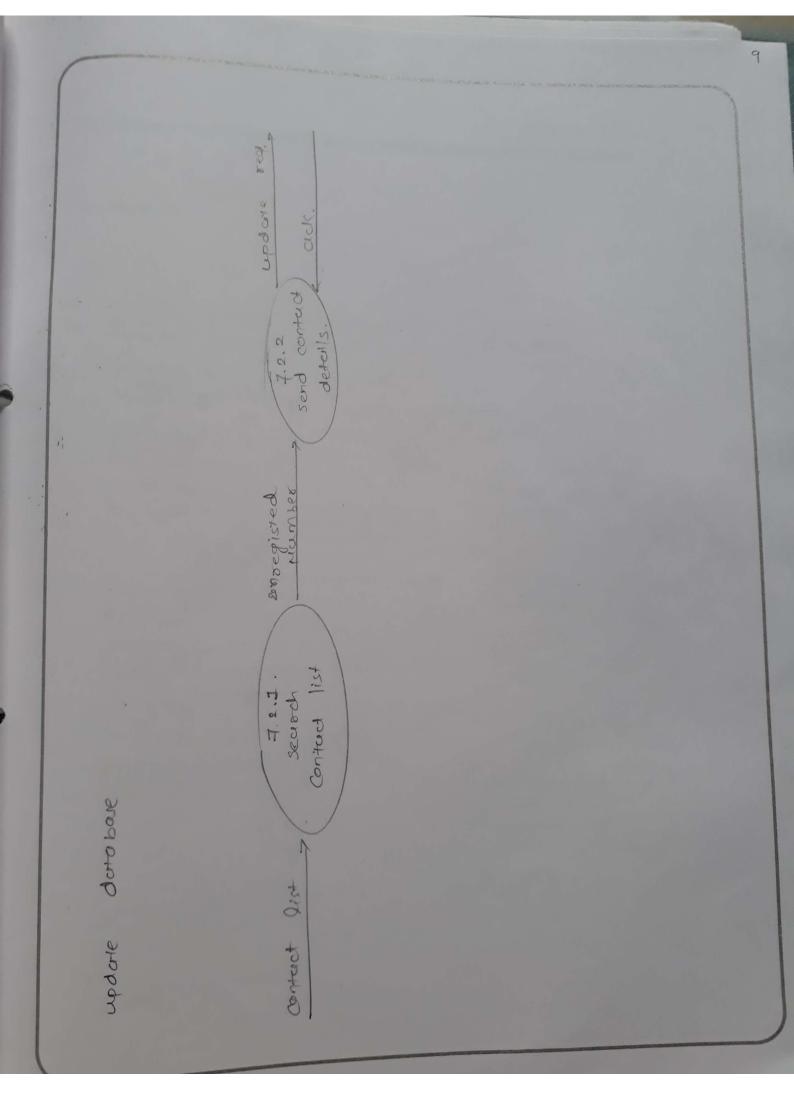
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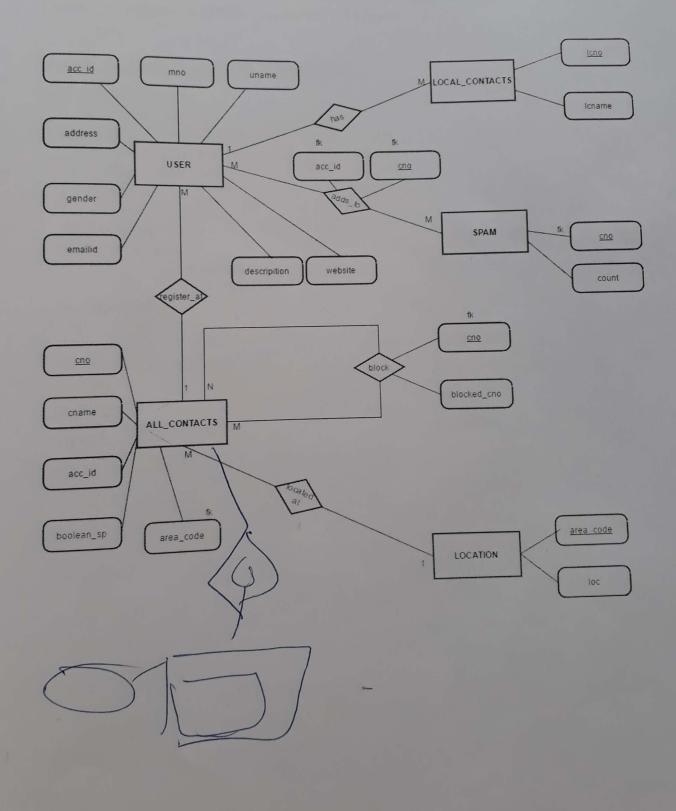


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ER DIAGRAM



DATA DICTIONARY

Definition: A data dictionary contains description and defines concerning the data structure, data elements, their relationships and other characteristics of a system.

TRUECALLER DATA DICTIONARY:

- * TABLES
 - ADDS_TO
 - > ALL_CONTACTS
 - LOCAL_CONTACTS
 - > LOCATION
 - > SPAM
 - USER1
- * PACKAGE
 - > PCK
 - o PROCEDURE
 - **☞** FINDAC
- * TRIGGER
 - > T1
 - > T2
 - REG_TRIGGER

Chicago in the Chicago Allis	Object Type	TABLE	Object	ADDS	TO
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		Data Type				Primary Key		it Comment
ADDS_TO	ACC_ID	NUMBER	-	5	0	1	adhadadhadha -	halilahilikkilakiaka -
	CNO	VARCHAR2	12		-	2		

Object Type TABLE Object ALL_CONTACTS

Table	Column	Data Type	Length	Precision		Primary Key		Default	Commen
ALL CONTACTS	CNO	VARCHAR2	12	_	-	1		-	-
	CNAME	VARCHAR2	20	•	•	-	1		
	AREA_CODE	VARCHAR2	2	-			1	-	-
	ACC_ID	NUMBER		5	0 -	4 1 - 4 -	/	-	-
	BOOLEAN_SP	NUMBER	•	1	0	-	/	-	-

Object Type TABLE Object LOCAL_CONTACTS

Table	Column	Data Type	Lengt	h Precis		Primary Key	Nullable	Default	Commen
LOCAL CONTACTS	LCNO	VARCHAR2	12	-	-	1	-	-	-
	LNAME	VARCHAR2	20		-		/	-	-

Object Type TABLE Object LOCATION

	Column		(0.000000000000000000000000000000000000		200000000000000000000000000000000000000	4			
OCATION	AREA CODE	VARCHAR2	2	-		alica and management of the	-		
	LOC	VARCHAR2	20	-	-		~	-	-

Object Type	TARI	F	Object	SPAM

Table	Column	Data Type	Lengt	h Precisi	on Scale	Primary Key	Nullable	Diefau)	Comm	
		VARCHAR2							_	
	COUNT	NUMBER	-	5		Company of the Compan	and the state of t			

	Column	Data Type							
USER1	ACC_ID	Data Type NUMBER		rrecision	Scale	Primary Key		Default	
MNQ UNAME EMAILID		VARCHAR2		5	0	1	-	-	-
	UNAME		12				/	-	-
		VARCHAR2	20	-	-		/		1
	The state of the state of the state of	VARCHAR2	20	-	-		/		
	DESCRIPTION	VARCHAR2	50		_				
	WEBSITE	VARCHAR2	30				· · · · ·		
	ADDRESS	VARCHAR2	30		-	-	· ·		•
	GENDER	VARCHAR2	30	the transport of the same of t	-		~	_	

QUERY FOR ALL TABLES

```
CREATE TABLE ADDS TO
  ACC_ID NUMBER(5) CONSTRAINT FK_ACCID REFERENCES USER1,
  CNO VARCHAR2(12) CONSTRAINT FK CNO REFERENCES ALL_CONTACTS,
  PRIMARY KEY(ACC ID,CNO)
> CREATE TABLE ALL CONTACTS
  CNO VARCHAR2(12) CONSTRAINT PK_CNO PRIMARY KEY,
  CNAME VARCHAR2(20),
  AREA_CODE VARCHAR(2) CONSTRAINT FK_AREA_CODE REFERENCES LOCATION,
  ACC_ID NUMBER(5) CONSTRAINT FK_ACC_ID REFERENCES USER1,
  BOOLEAN_SP NUMBER(1)
 CREATE TABLE LOCAL_CONTACTS
  LCNO VARCHAR2(12) CONSTRAINT LCNO_PRIMARYKEY PRIMARY KEY,
  LNAME VARCHAR2(20)
 CREATE TABLE LOCATION
  AREA_CODE VARCHAR2(2) CONSTRAINT PK_AREA_CODE PRIMARY KEY,
  LOC VARCHAR2(20)
CREATE TABLE SPAM
  CNO VARCHAR2(12) CONSTRAINT FK_SPAM_CNO REFERENCES ALL_CONTACTS,
  COUNT NUMBER(5),
  PRIMARY KEY(CNO))
```

```
CREATE TABLE USER1

(ACC_ID NUMBER(5) CONSTRAINT ACC_ID_PRIMARYKEY PRIMARY KEY,
MNO VARCHAR2(12),
UNAME VARCHAR2(20),
EMAILID VARCHAR2(20),
DESCRIPTION VARCHAR2(50),
WEBSITE VARCHAR2(30),
ADDRESS VARCHAR2(30),
GENDER VARCHAR2(10))

PACKAGE SPECIFICAION

CREATE OR REPLACE PACKAGE PCK
```

CREATE OR REPLACE PACKAGE PCK
AS

PROCEDURE FINDAC(R ALL_CONTACTS.CNO%TYPE,AC OUT
ALL_CONTACTS.AREA_CODE%TYPE);
END PCK;

PACKAGE BODY

```
CREATE OR REPLACE PACKAGE BODY PCK

AS

PROCEDURE FINDAC(R ALL_CONTACTS.CNO%TYPE,AC OUT

ALL_CONTACTS.AREA_CODE%TYPE)

AS

BEGIN

AC:=SUBSTR(R,1,2);

END FINDAC;
```

TRIGGERS

```
1. TRIGGER: T1 (INSERT INTO SPAM)
  CREATE OR REPLACE TRIGGER T1
  AFTER INSERT ON ADDS TO
  FOR EACH ROW
  DECLARE
  N NUMBER(1);
  BEGIN
  SELECT COUNT(*) INTO N FROM SPAM WHERE CNO=:NEW.CNO;
  IF N>0 THEN
        UPDATE SPAM
        SET COUNT=COUNT+1
        WHERE CNO=:NEW.CNO;
   ELSE
        INSERT INTO SPAM VALUES(:NEW.CNO,1);
   END IF;
   END T1;
2. TRIGGER: T2 (CHECK SPAM BOOL)
   CREATE OR REPLACE TRIGGER T2
  AFTER UPDATE
   ON SPAM
   FOR EACH ROW
   BEGIN
   IF:NEW.COUNT>30 THEN
         UPDATE ALL_CONTACTS
         SET BOOLEAN_SP=1
         WHERE CNO=:NEW.CNO;
   END IF;
   END T2;
```

3. TRIGGER: REG_TRIGGER

CREATE OR REPLACE TRIGGER REG_TRIGGER AFTER INSERT ON USER1 FOR EACH ROW

DECLARE

CURSOR C1 IS SELECT * FROM LOCAL_CONTACTS; X NUMBER(1); X1 NUMBER(2); AC ALL_CONTACTS.AREA_CODE%TYPE;

A ID USER1.ACC_ID%TYPE;

BEGIN

SELECT COUNT(*) INTO X FROM ALL_CONTACTS WHERE :NEW.MNO=CNO;

IF X!=0 THEN
DELETE FROM
ALL_CONTACTS
WHERE :NEW.MNO=CNO;
END IF;

PCK.FINDAC(:NEW.MNO,AC);

INSERT INTO ALL_CONTACTS
VALUES(:NEW.MNO,:NEW.UNAME,AC,:NEW.ACC_ID,0);

FOR R1 IN C1 LOOP

```
SELECT COUNT(*) INTO X
  FROM ALL_CONTACTS
  WHERE CNO=R1.LCNO;
 SELECT ACC_ID INTO A_ID
 FROM ALL_CONTACTS
 WHERE CNO=:NEW.MNO;
 IF(X!=0) THEN
   SELECT COUNT(*) INTO X1
   FROM USER1
   WHERE ACC_ID=A_ID;
      IF (X1=0) THEN
       UPDATE ALL CONTACTS
       SET CNAME=R1.LNAME,ACC ID=:NEW.ACC_ID
        WHERE CNO=R1.LCNO;
      ELSE
       CONTINUE;
      END IF;
  ELSE
   PCK.FINDAC(R1.LCNO,AC);
   INSERT INTO ALL_CONTACTS
   VALUES(R1.LCNO,R1.LNAME,AC,:NEW.ACC_ID,0);
 END IF;
END LOOP;
END REG_TRIGGER;
```