Android Technical Assessment (ATA)

Developer: Sibusiso Ntshangase

Tech Stack: Java 7, Android Studio, Microsoft SQL Server, API, Fragment, Activity

Compatibility: Android API Level 17(4.2) and above

Overview: This is simply to give Bloodhound an idea of **Android** skill level.

What to do: Requirement: Design an application that enables a user to capture and view locations.

Language: Java

API compatibility: 17+

Design: Make use of the material design support library, themes (chosen Layout types are important), design pattern of your choice, dependency injection where applicable.

Views / Screens, ability to:

1. Capture and edit locations(Auto captured on login if new location)
2. View locations, as a list is fine (please provide a sample data set, 1000 locations, can be duplicates, not worried about the integrity of data, this is purely to see performance of the list)

Persistence: Use datastore of your choice to persist the captured data (RealmDB / Room etc.)

Additional requirements:

- Retrieve weather information (just the degrees Celsius is fine) for a city (Cape Town?) and display on screen accompanied with time of retrieval (using something like https://openweathermap.org/api or whatever you choose)
- **Update weather information on the minute**, so refresh it every minute.

Please find the project in: GitHub Repository:

https://github.com/sntshangase3/BloodHound

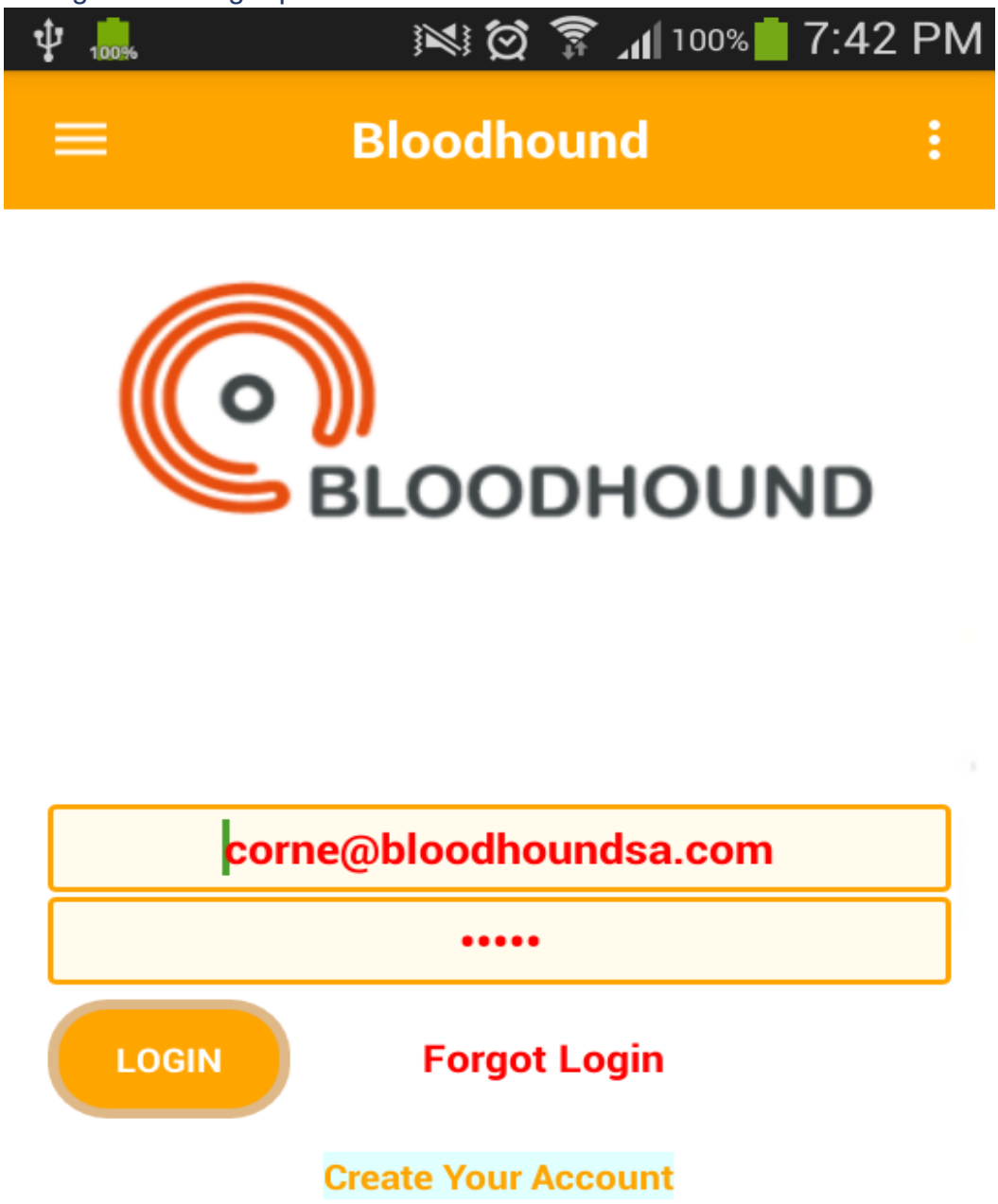
App Walkthrough

1. Loading / Splash Screen

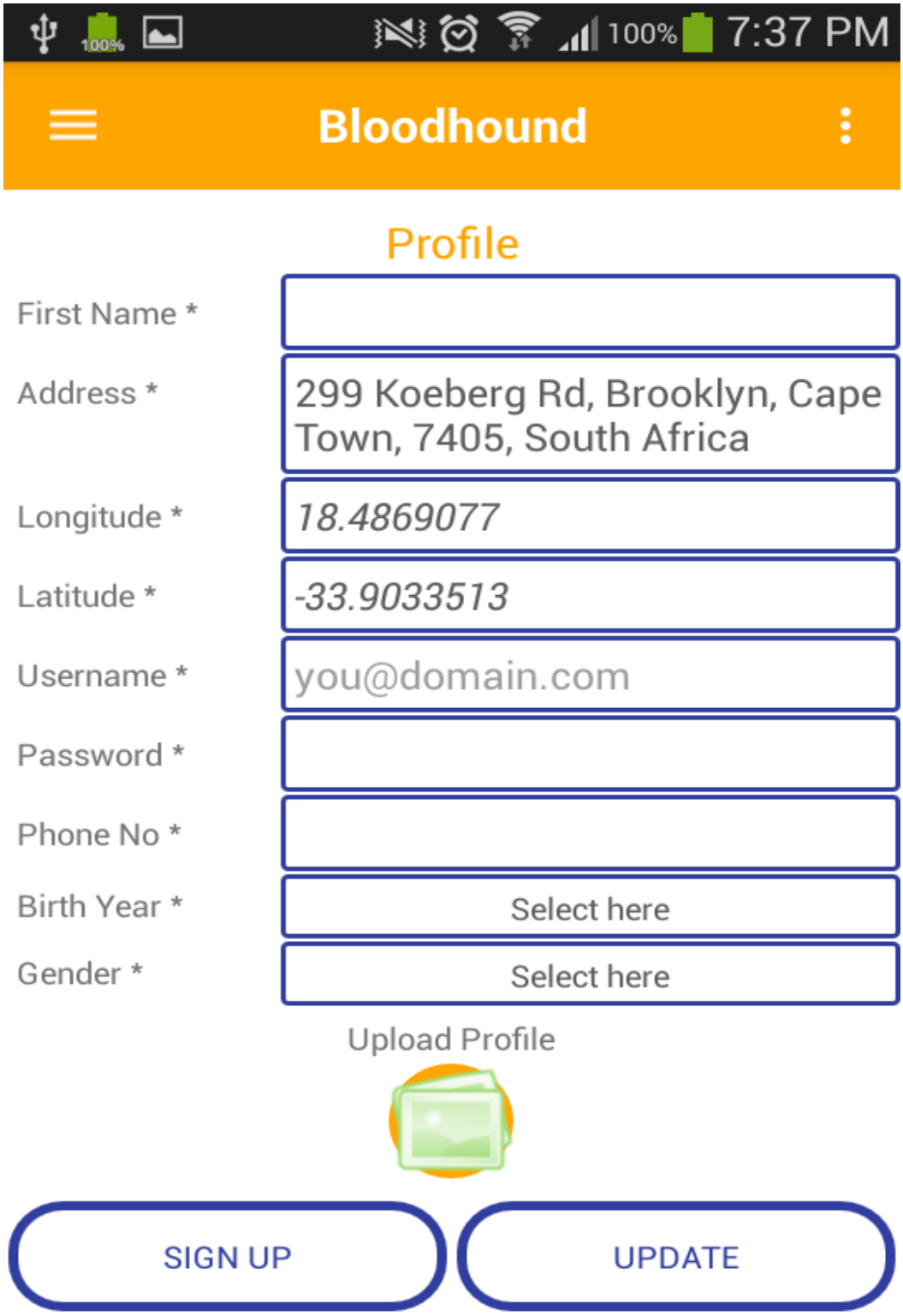
BLOODHOUND

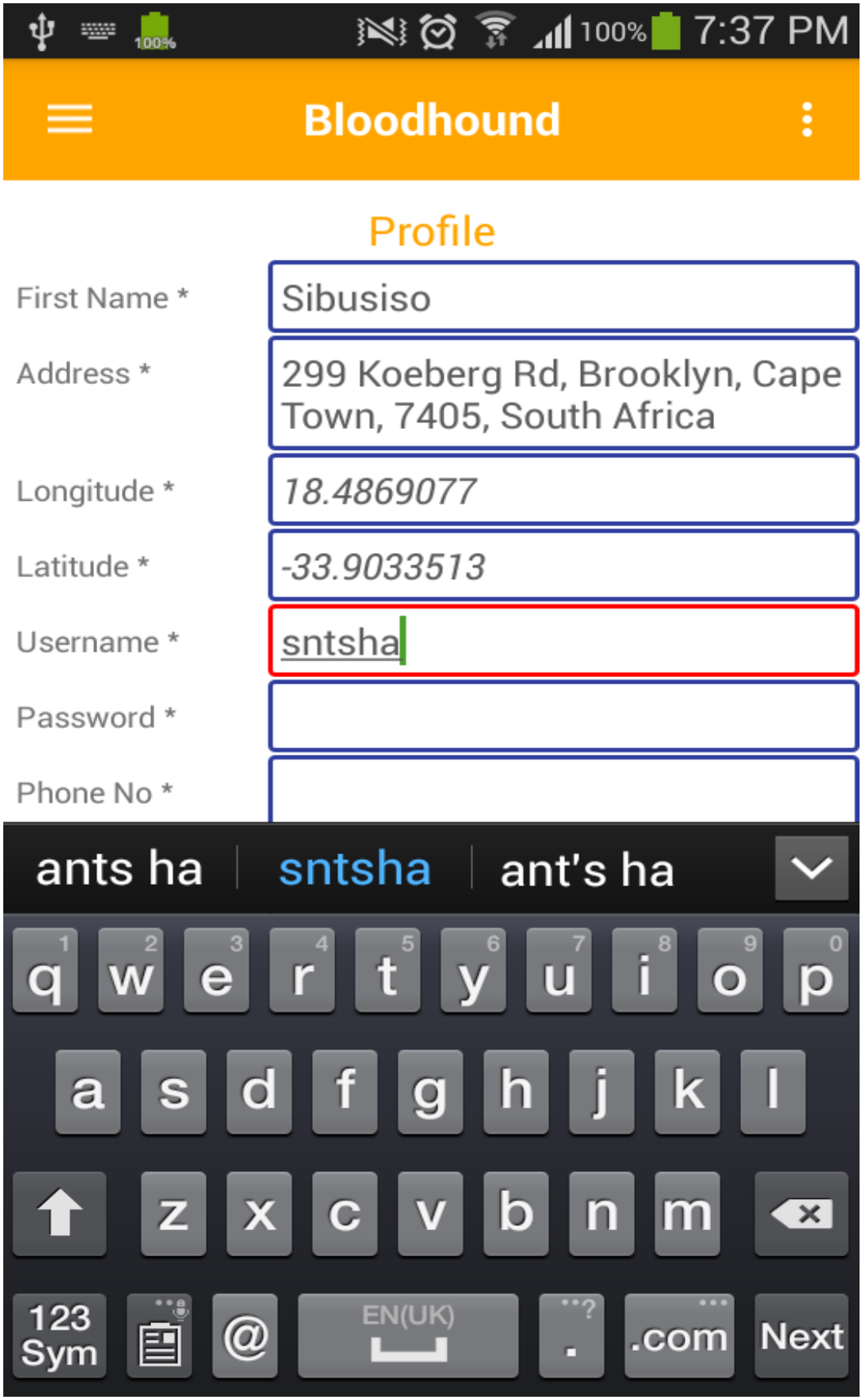
Sibusiso Assessment

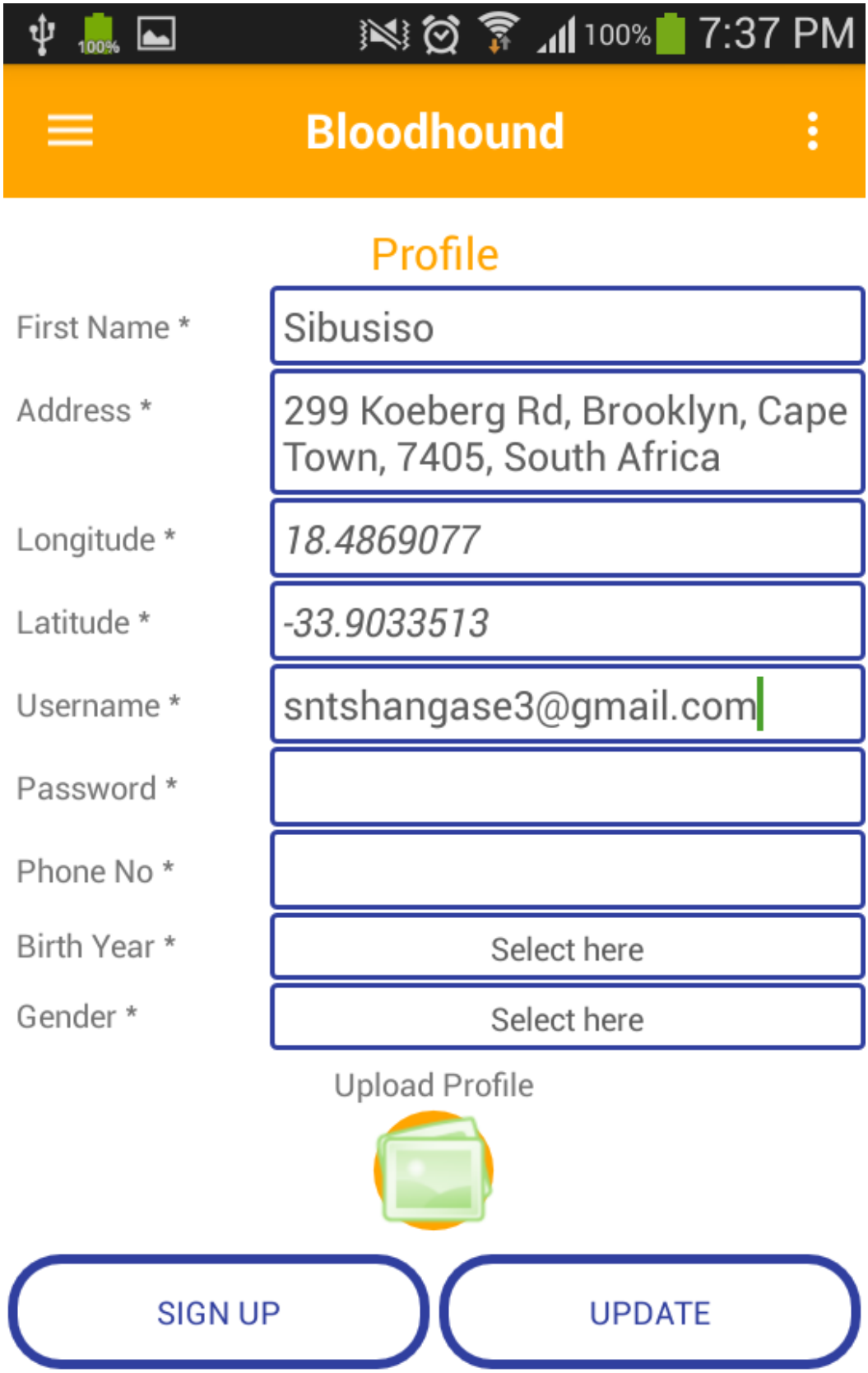
2. Login /User Signup

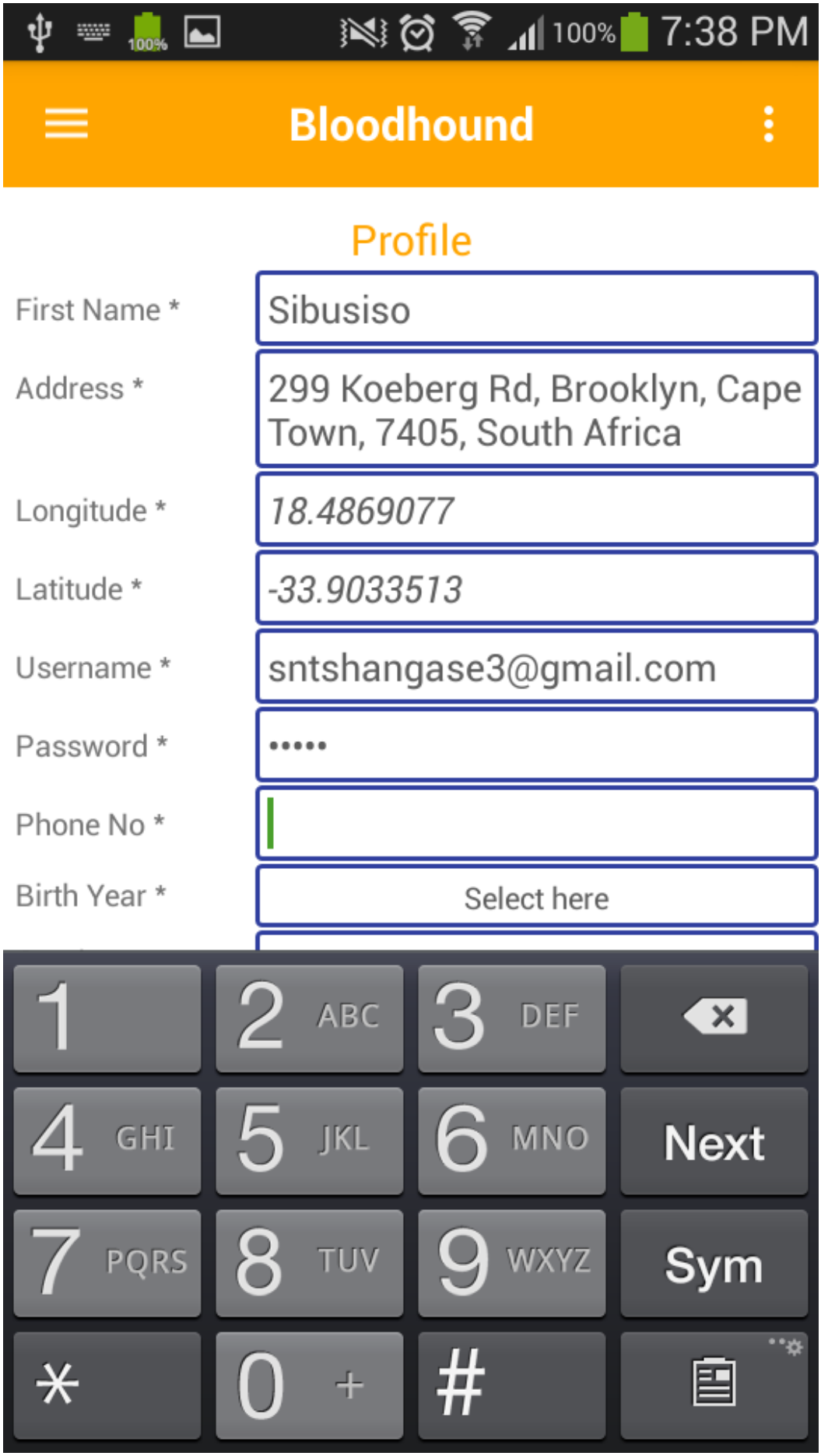


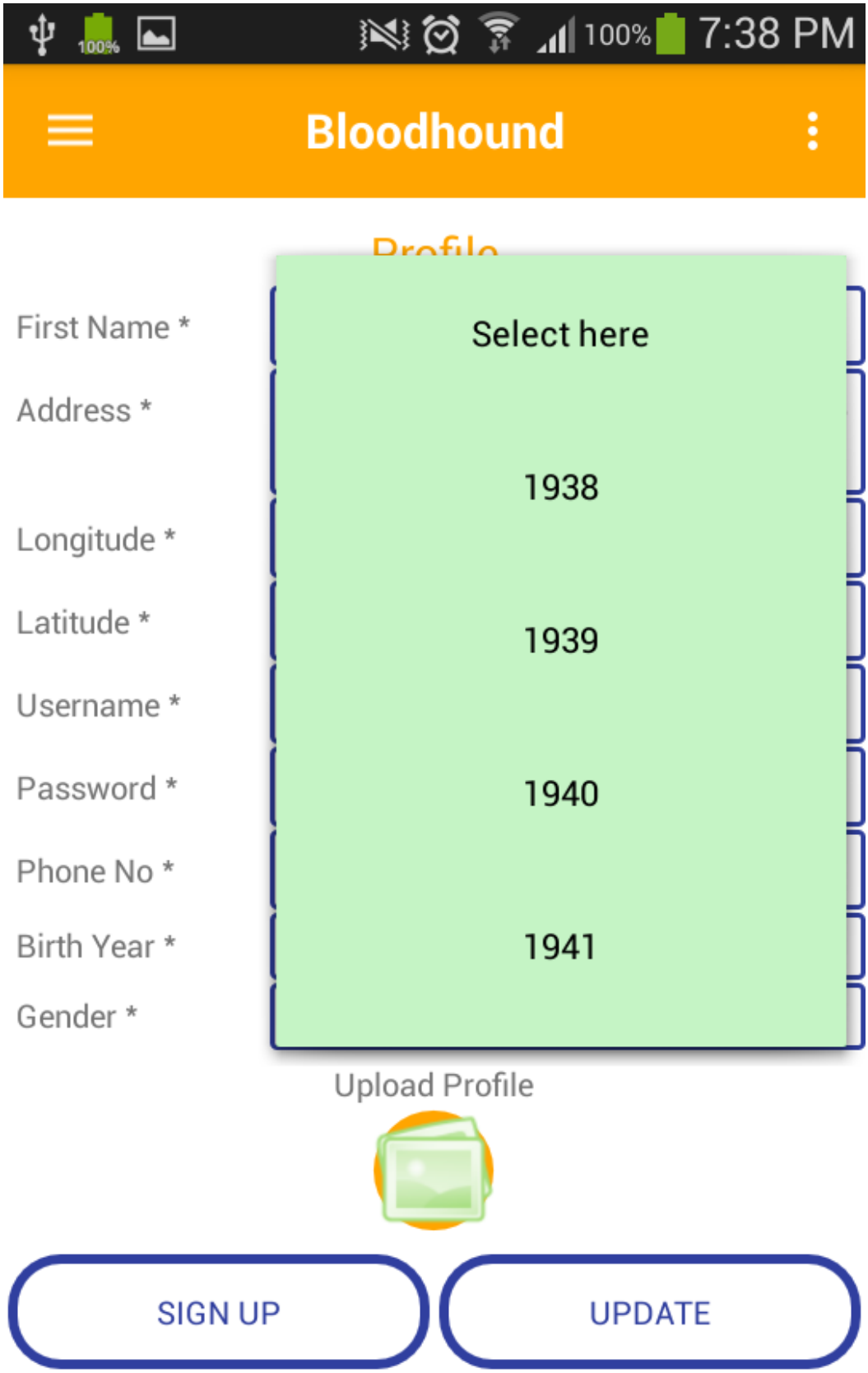
On New User Registration, Address, Longitude and Latitude is auto populated based on current location.

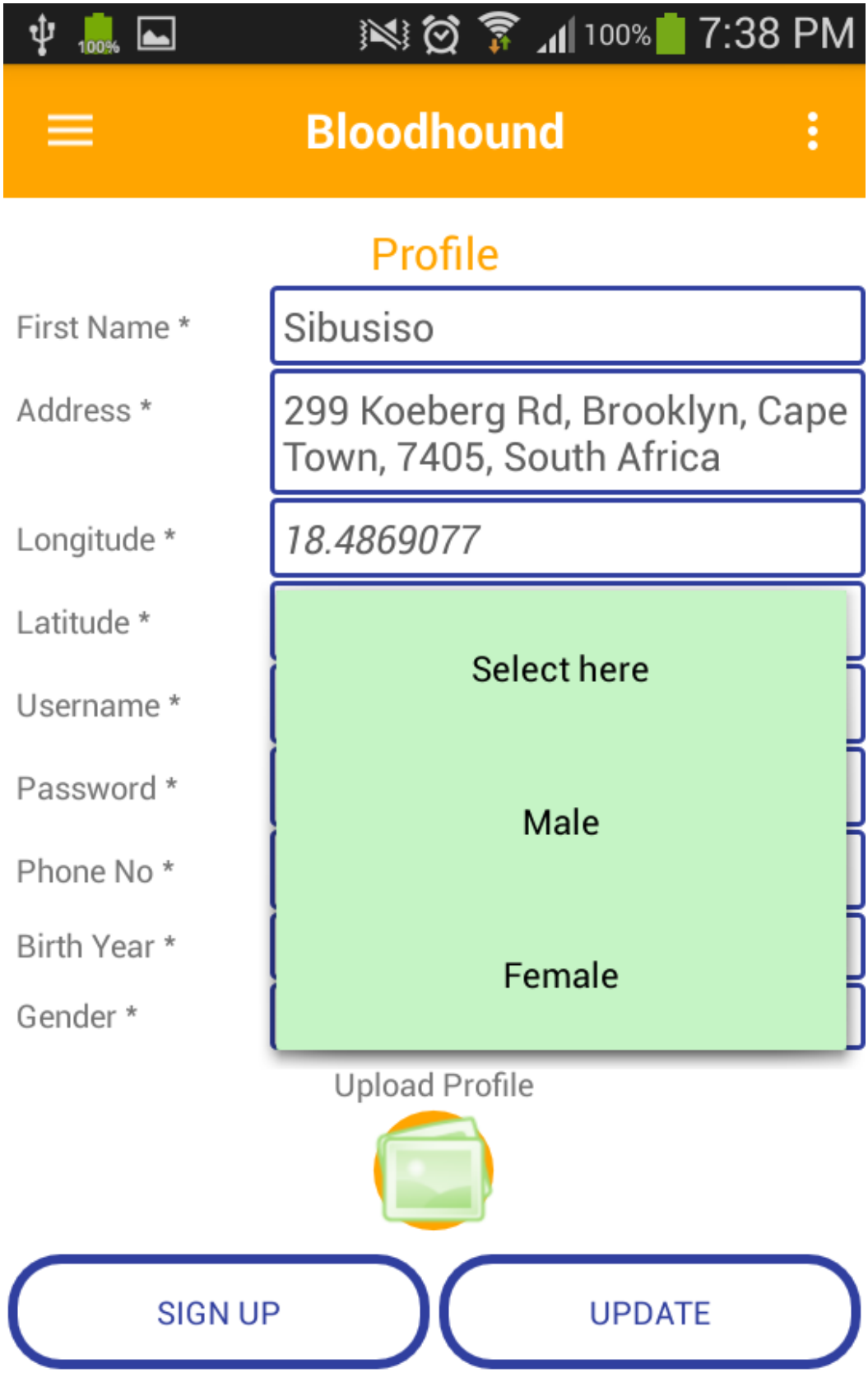


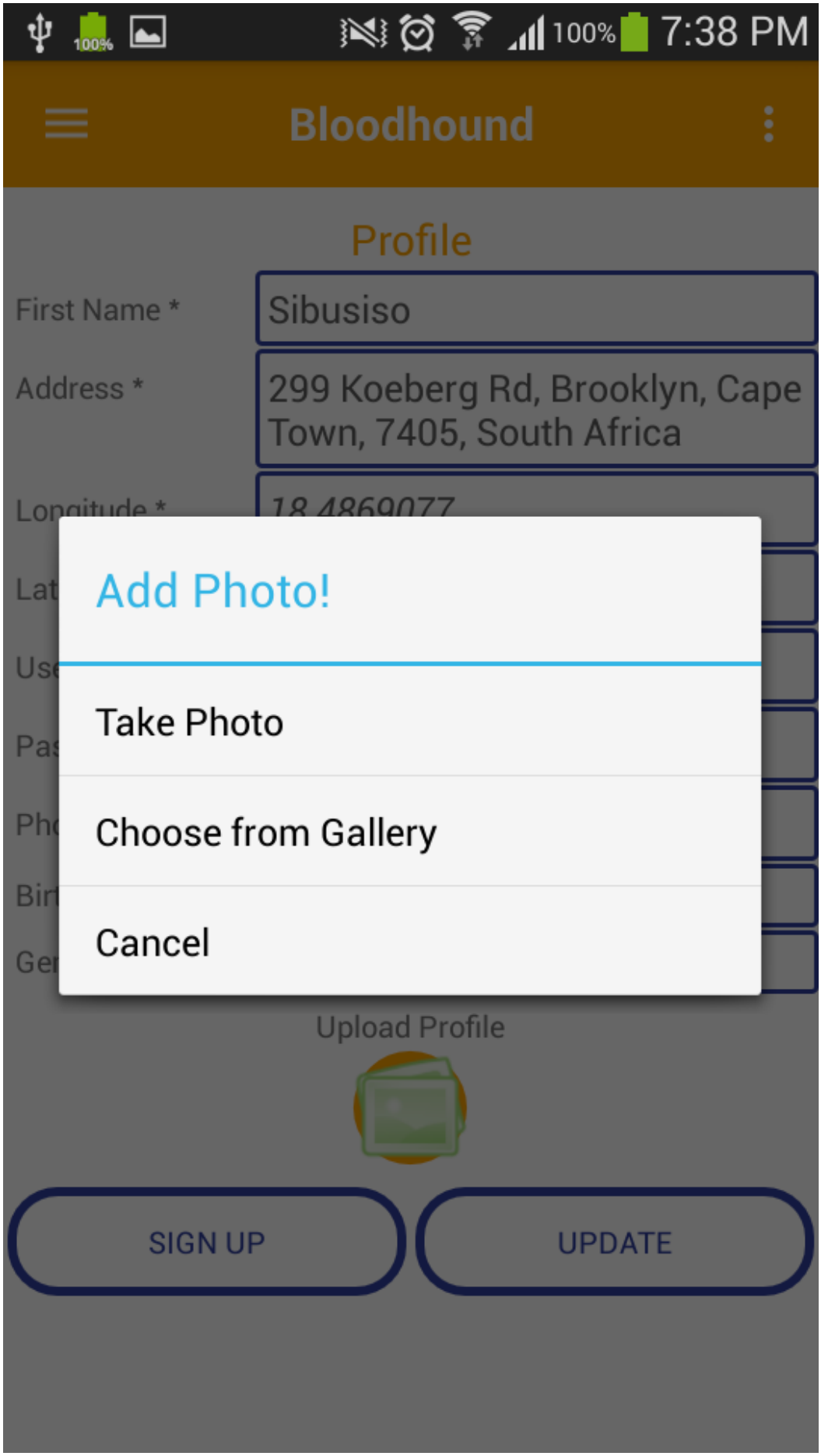

100%
7:37 PM
Bloodhound
Profile
First Name *
Sibusiso
Address *
299 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Longitude *
18.4869077
Latitude *
-33.9033513
Username *
sntsha
Password *
Phone No *
ants ha
sntsha
ant's ha
123 Sym
EN(UK)
.com
Next

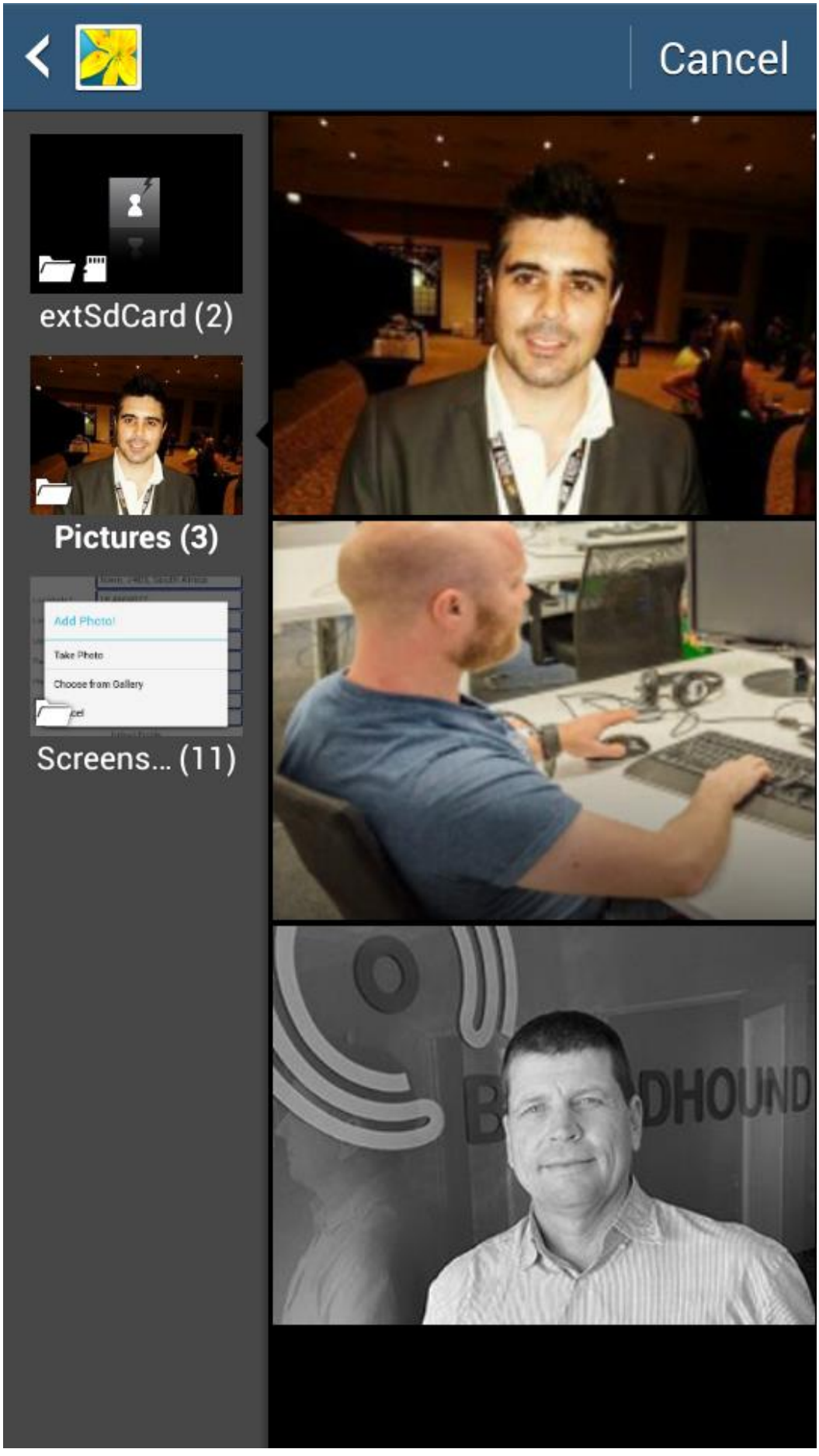

100%
7:37 PM
Bloodhound
Profile
First Name *
Sibusiso
Address *
299 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Longitude *
18.4869077
Latitude *
-33.9033513
Username *
sntshangase3@gmail.com
Password *
Phone No *
Birth Year *
Select here
Gender *
Select here
Upload Profile
SIGN UP
UPDATE

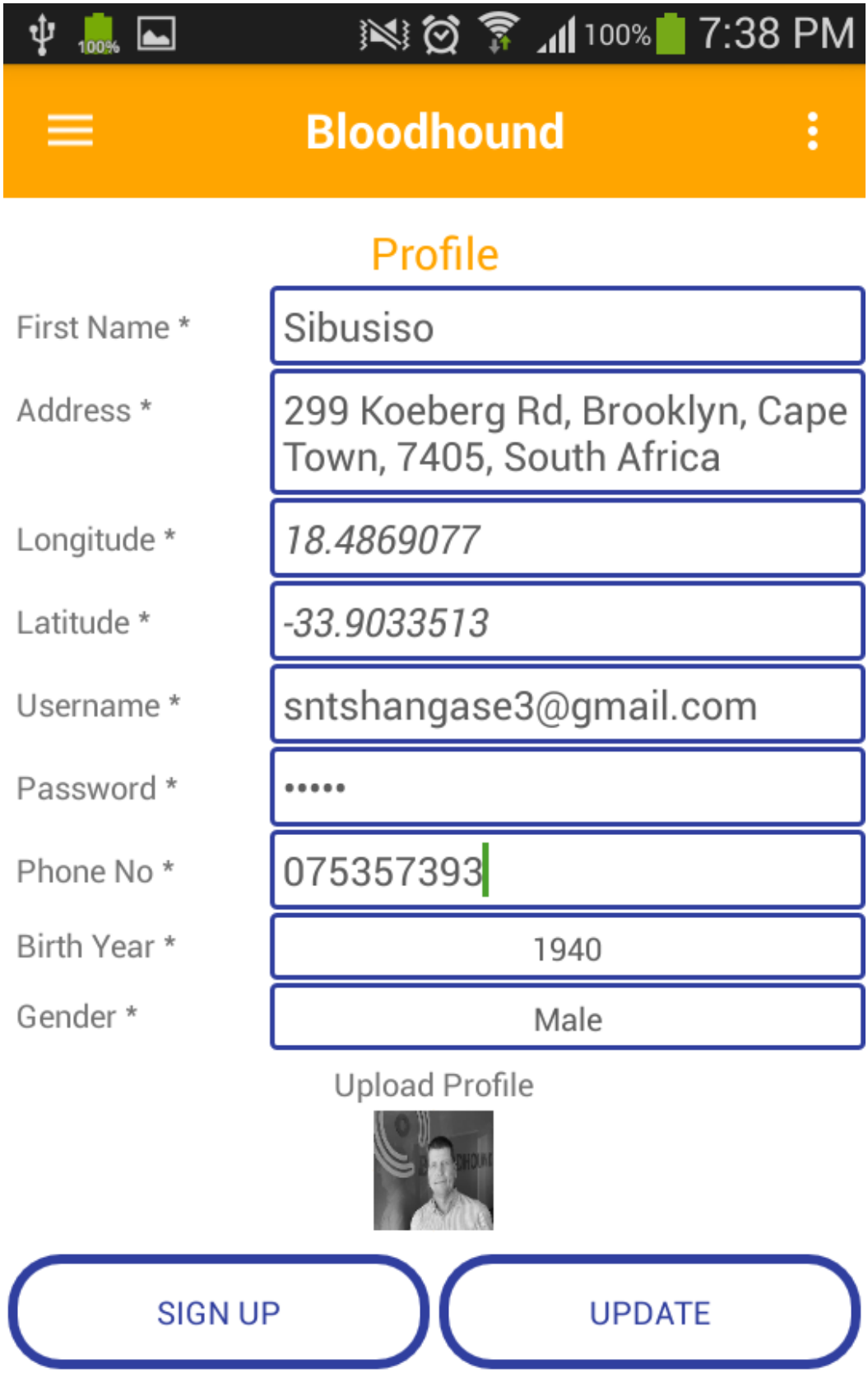

100% 7:38 PM
Bloodhound
Profile
First Name *
Sibusiso
Address *
299 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Longitude *
18.4869077
Latitude *
-33.9033513
Username *
sntshangase3@gmail.com
Password *
Phone No *
Birth Year *
Select here
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
Next
7 PQRS
8 TUV
9 WXYZ
Sym
*
0 +
#


100%
7:38 PM
Bloodhound
Profile
First Name *
Address *
Longitude *
Latitude *
Username *
Password *
Phone No *
Birth Year *
Gender *
Select here
1938
1939
1940
1941
Upload Profile
SIGN UP
UPDATE

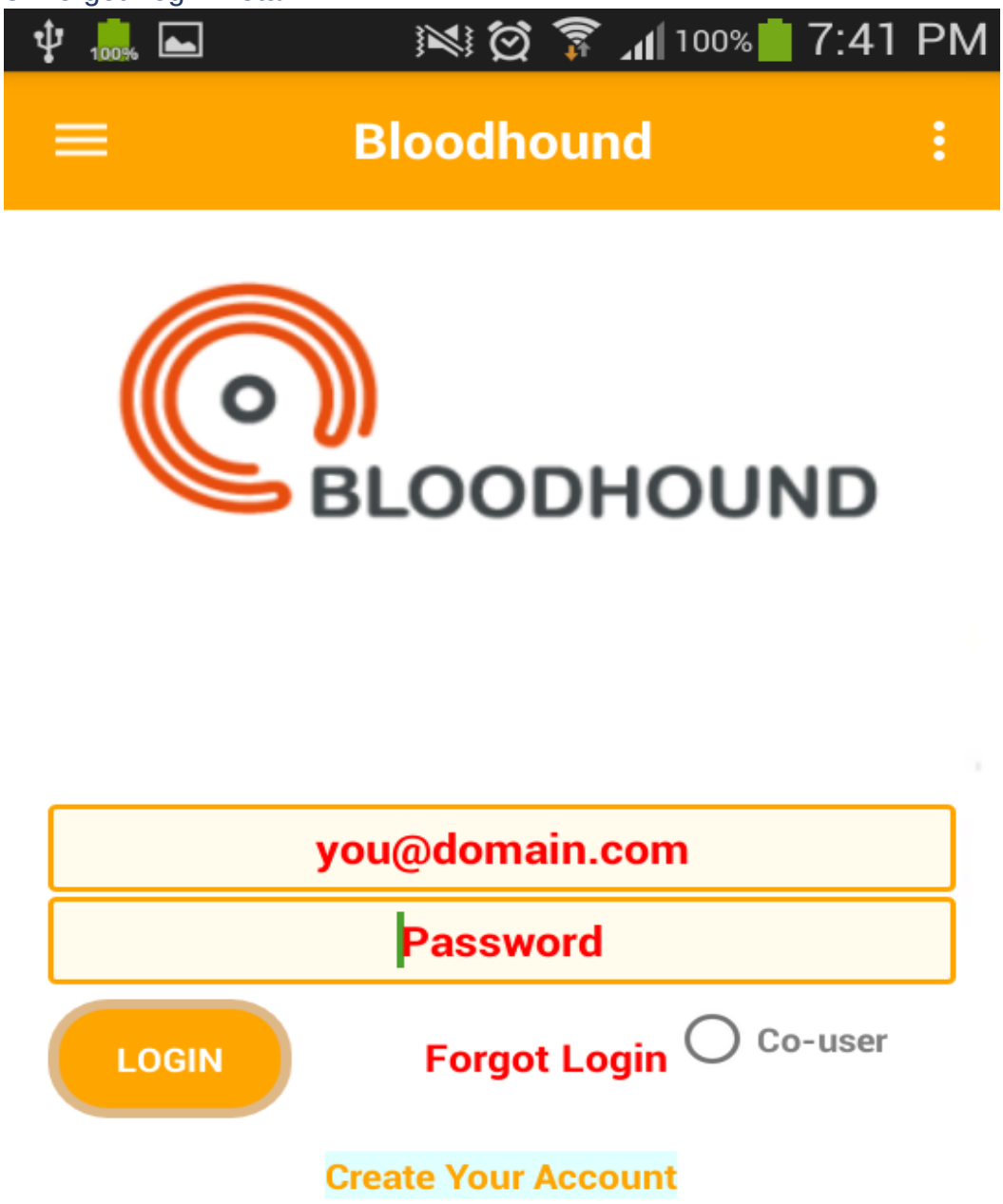

100%
7:38 PM
Bloodhound
Profile
First Name *
Sibusiso
Address *
299 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Longitude *
18.4869077
Latitude *
Username *
Password *
Phone No *
Birth Year *
Gender *
Select here
Male
Female
Upload Profile
SIGN UP
UPDATE

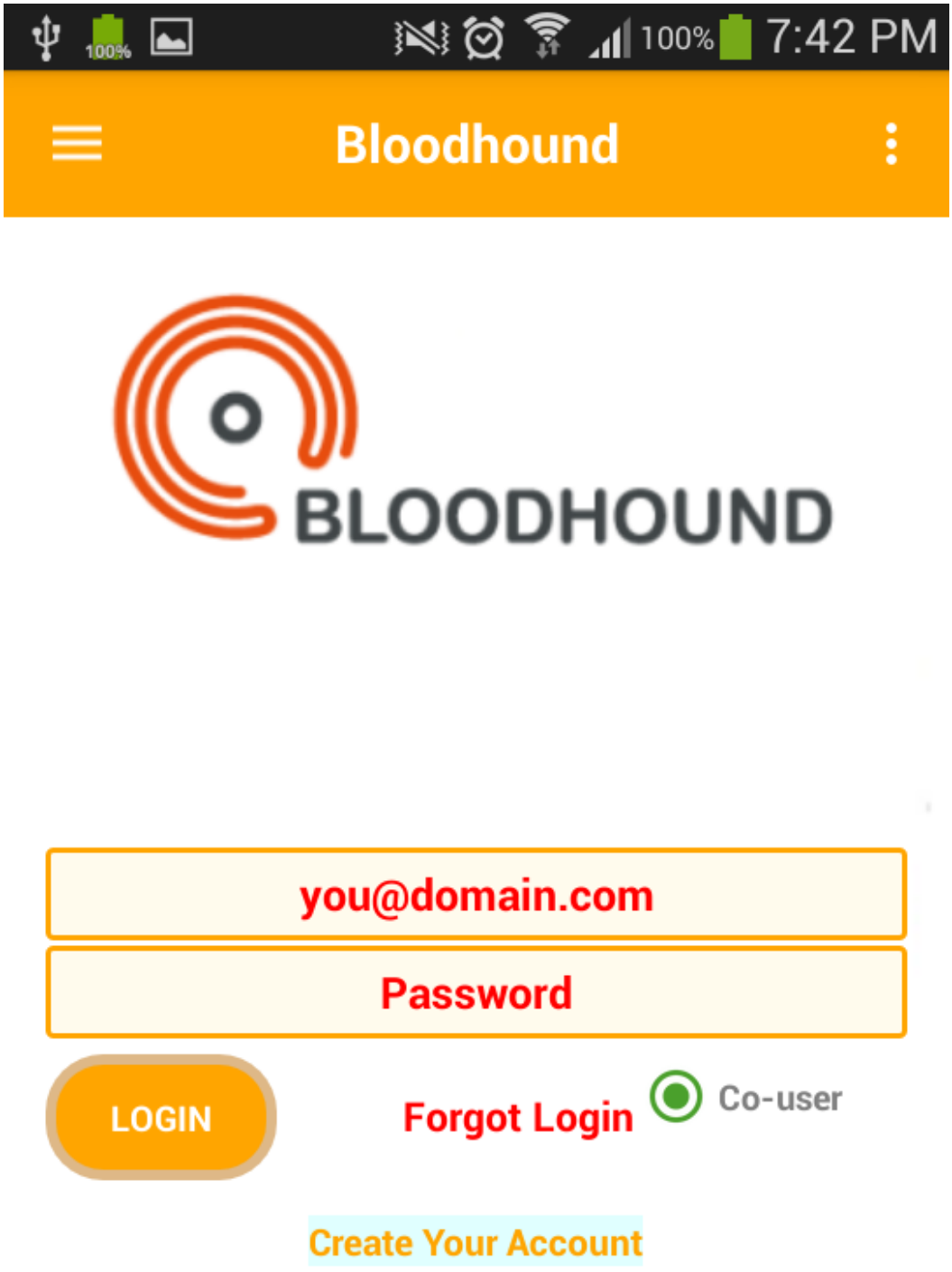

100%
7:38 PM
Bloodhound
Profile
First Name *
Sibusiso
Address *
299 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Add Photo!
Take Photo
Choose from Gallery
Cancel
Upload Profile
SIGN UP
UPDATE

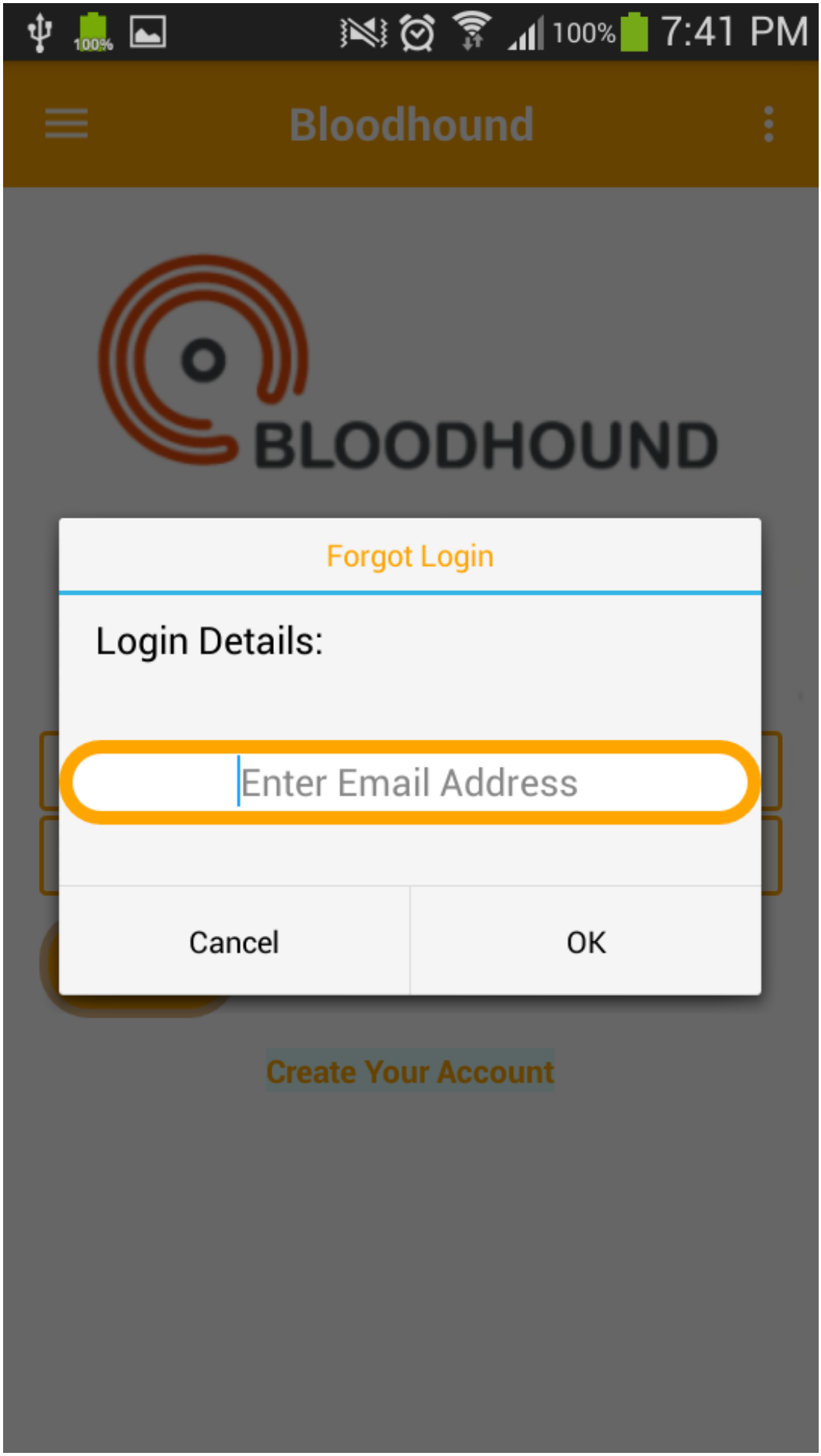

Cancel
extSdCard (2)
Pictures (3)
Add Photo!
Take Photo
Choose from Gallery
Screens... (11)


100%
7:38 PM
Bloodhound
Profile
First Name *
Sibusiso
Address *
299 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Longitude *
18.4869077
Latitude *
-33.9033513
Username *
sntshangase3@gmail.com
Password *
Phone No *
075357393
Birth Year *
1940
Gender *
Male
Upload Profile
SIGN UP
UPDATE

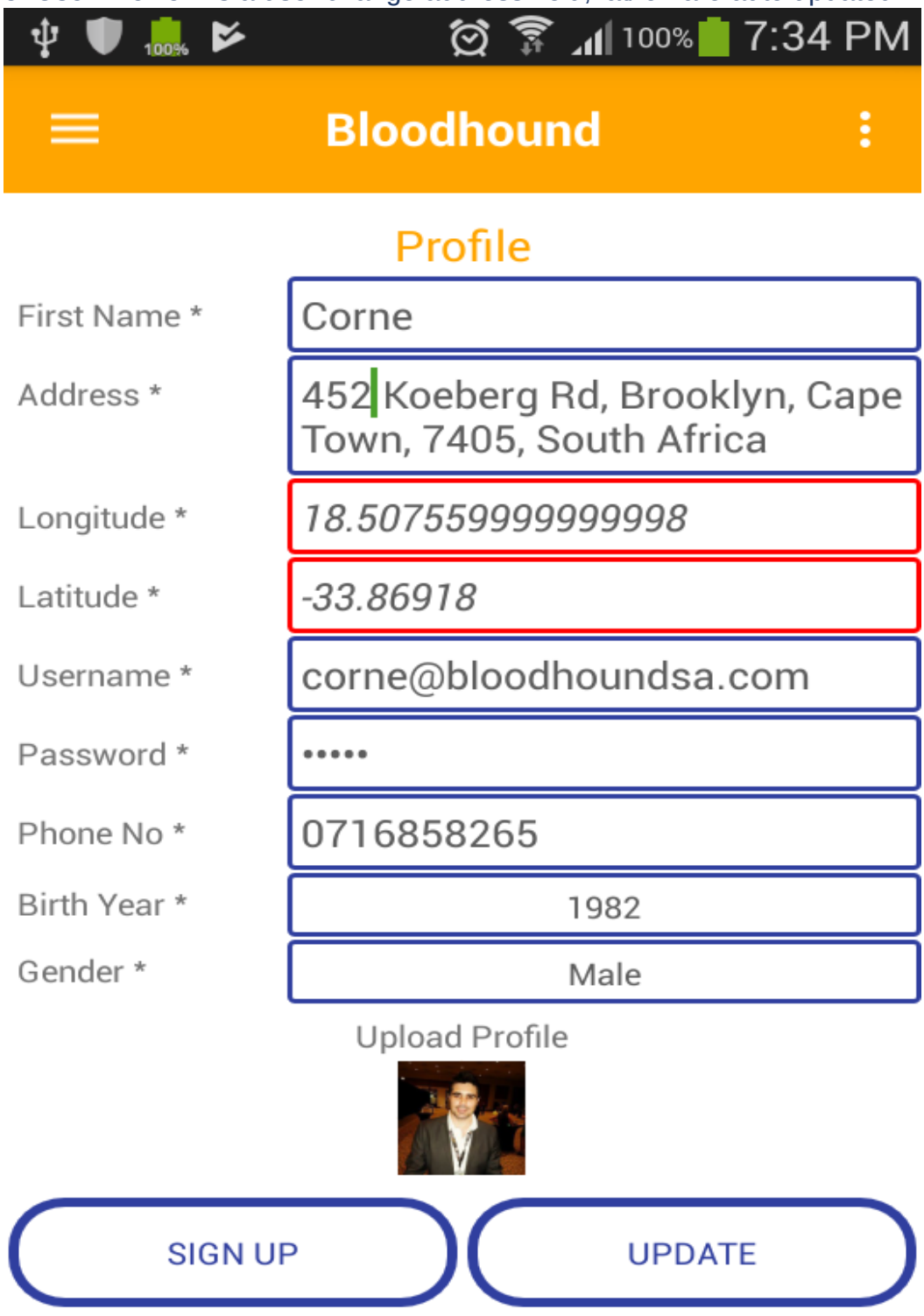
3. Forgot Login Detail

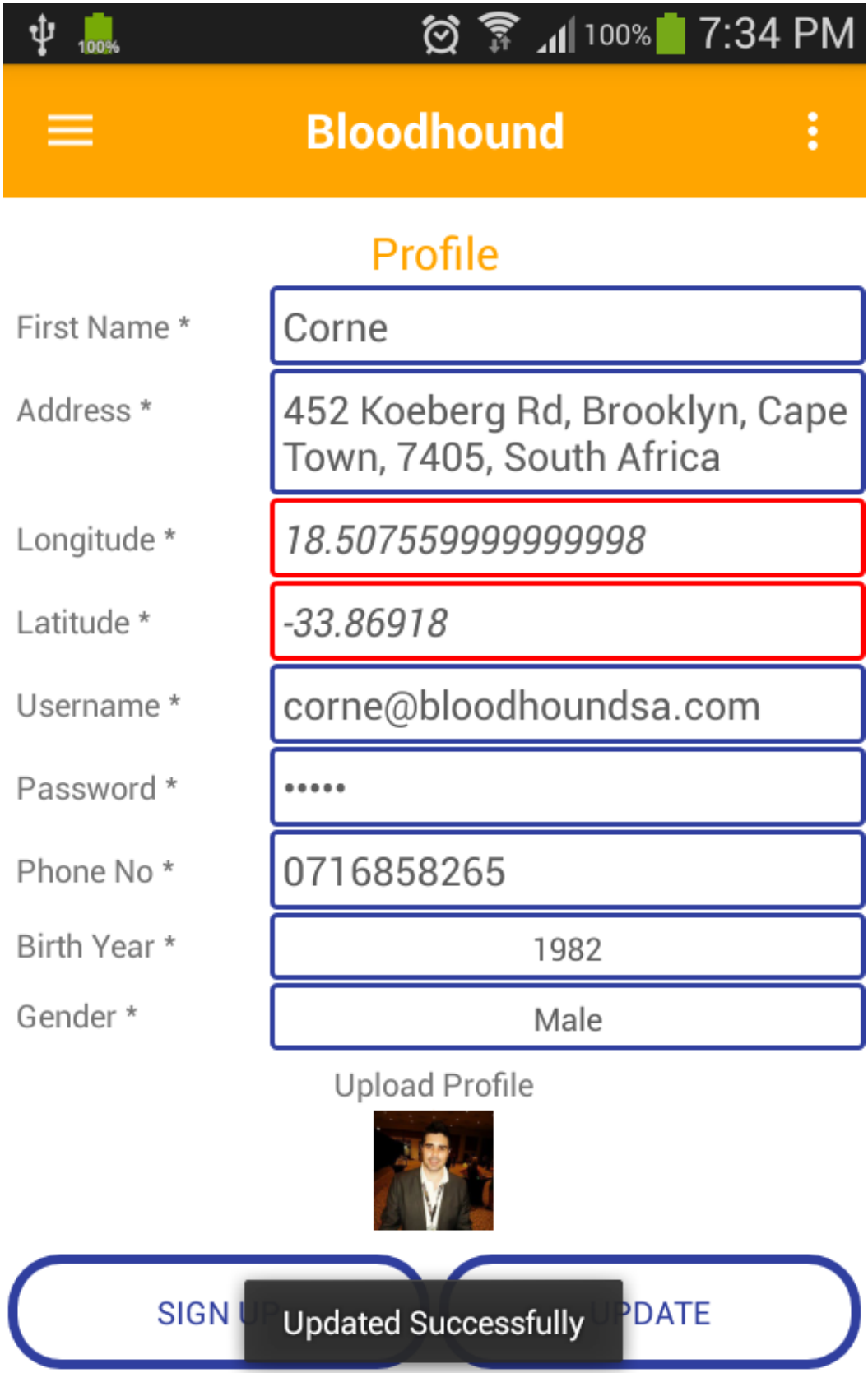



100%
7:42 PM
Bloodhound
BLOODHOUND
you@domain.com
Password
LOGIN
Forgot Login
Co-user
Create Your Account

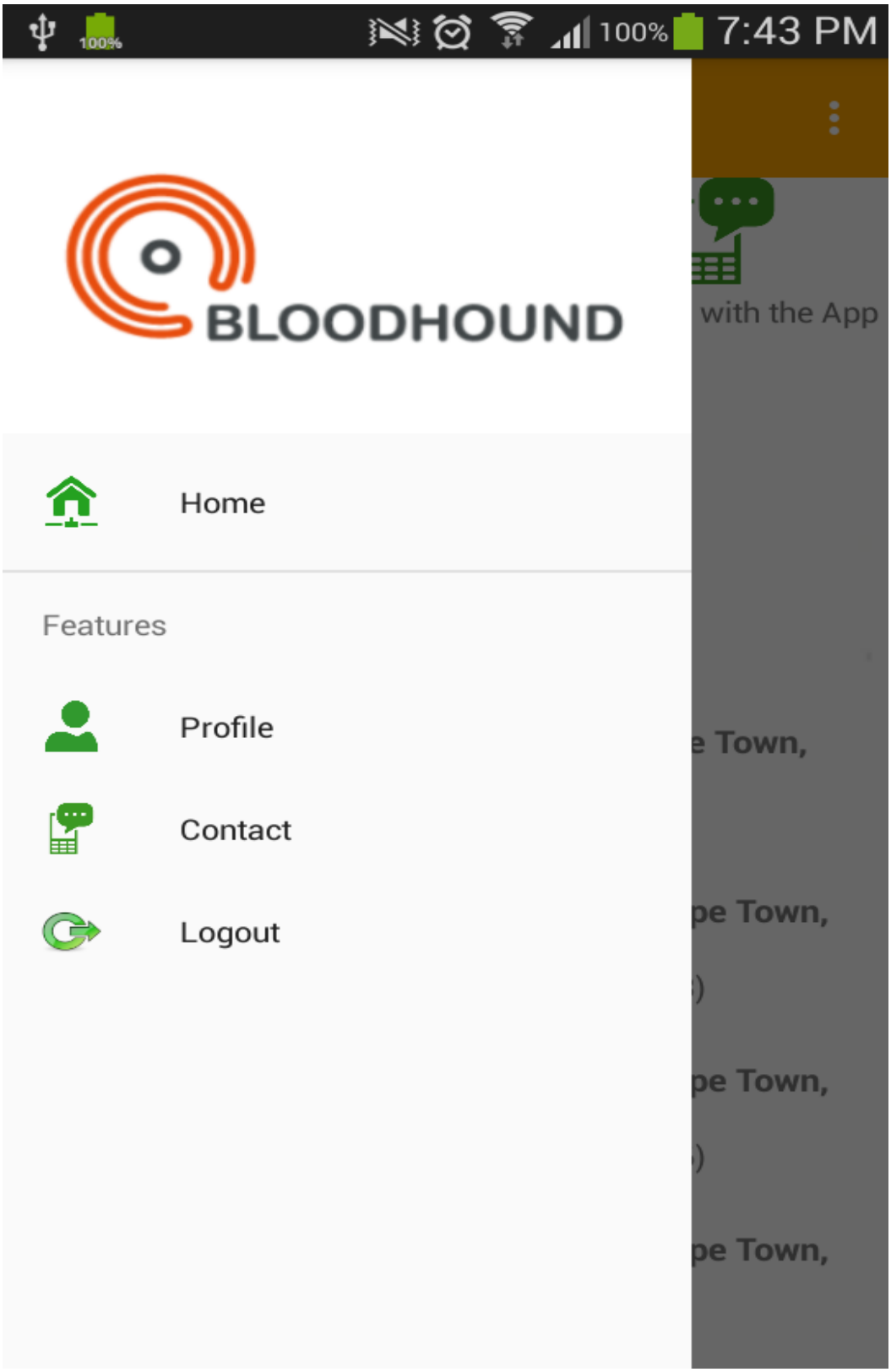

100%
7:41 PM
Bloodhound
BLOODHOUND
Forgot Login
Login Details:
Enter Email Address
Cancel
OK
Create Your Account

5. User Profile- As a user change address field, lat/lon are auto updated.

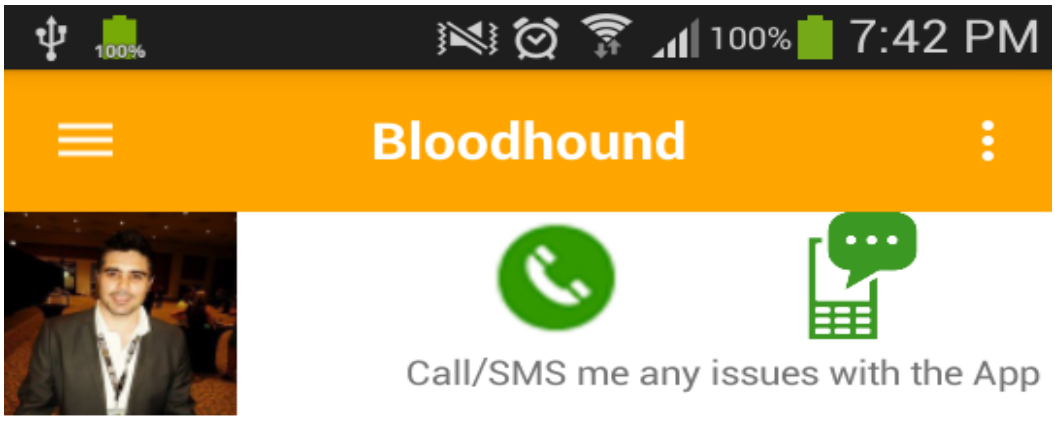



100%
7:34 PM
Bloodhound
Profile
First Name *
Corne
Address *
452 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Longitude *
18.507559999999998
Latitude *
-33.86918
Username *
corne@bloodhoundsa.com
Password *
Phone No *
0716858265
Birth Year *
1982
Gender *
Male
Upload Profile
SIGN UP
Updated Successfully
UPDATE

6. Main


100%
7:43 PM
BLOODHOUND
with the App
Home
Features
Profile
Contact
Logout
e Town,
pe Town,
pe Town,
pe Town,

7. Address List



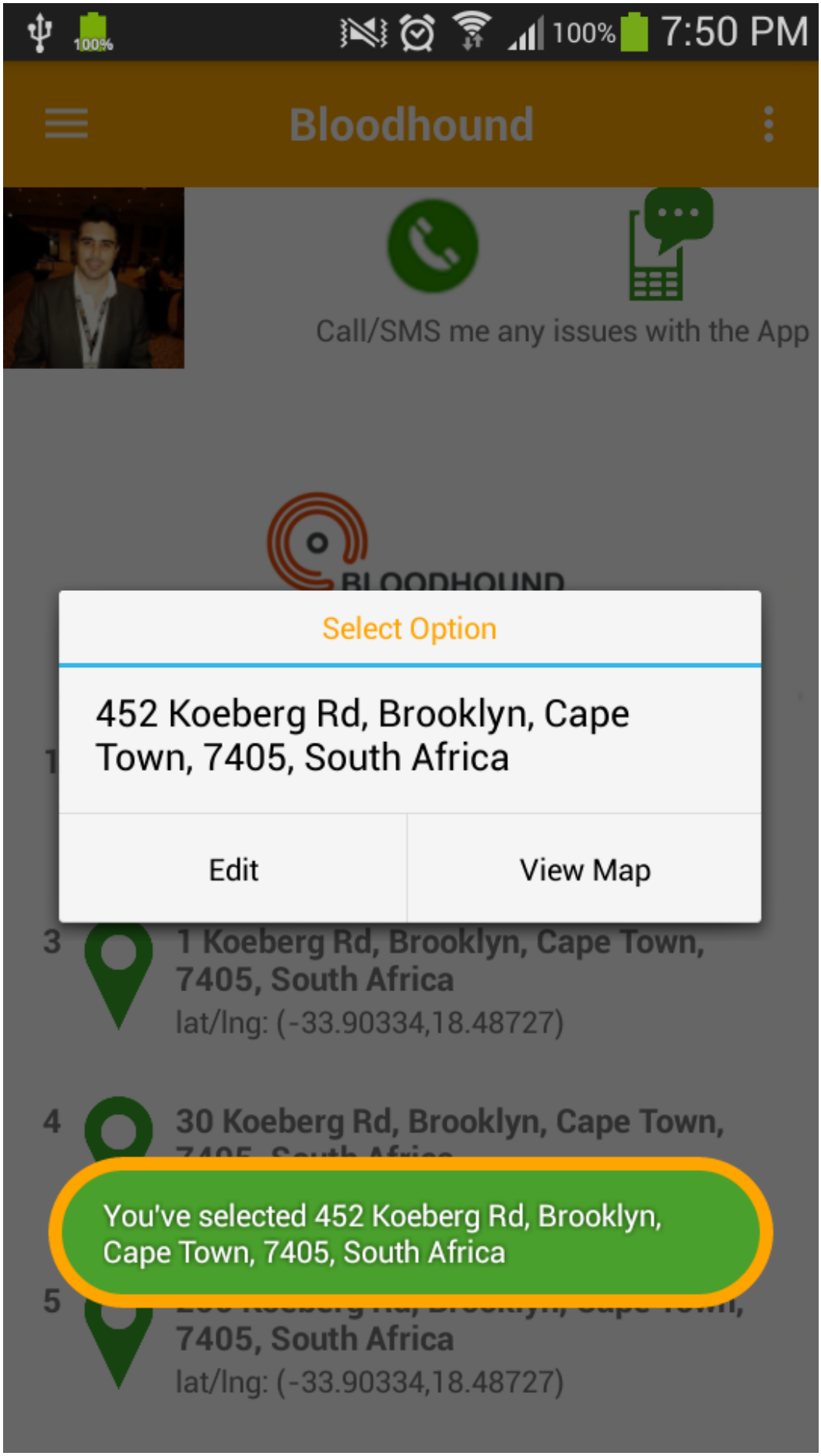
1 **452 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa**
lat/lng: (-33.86918,18.507559999999998)

3 **1 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa**
lat/lng: (-33.90334,18.48727)

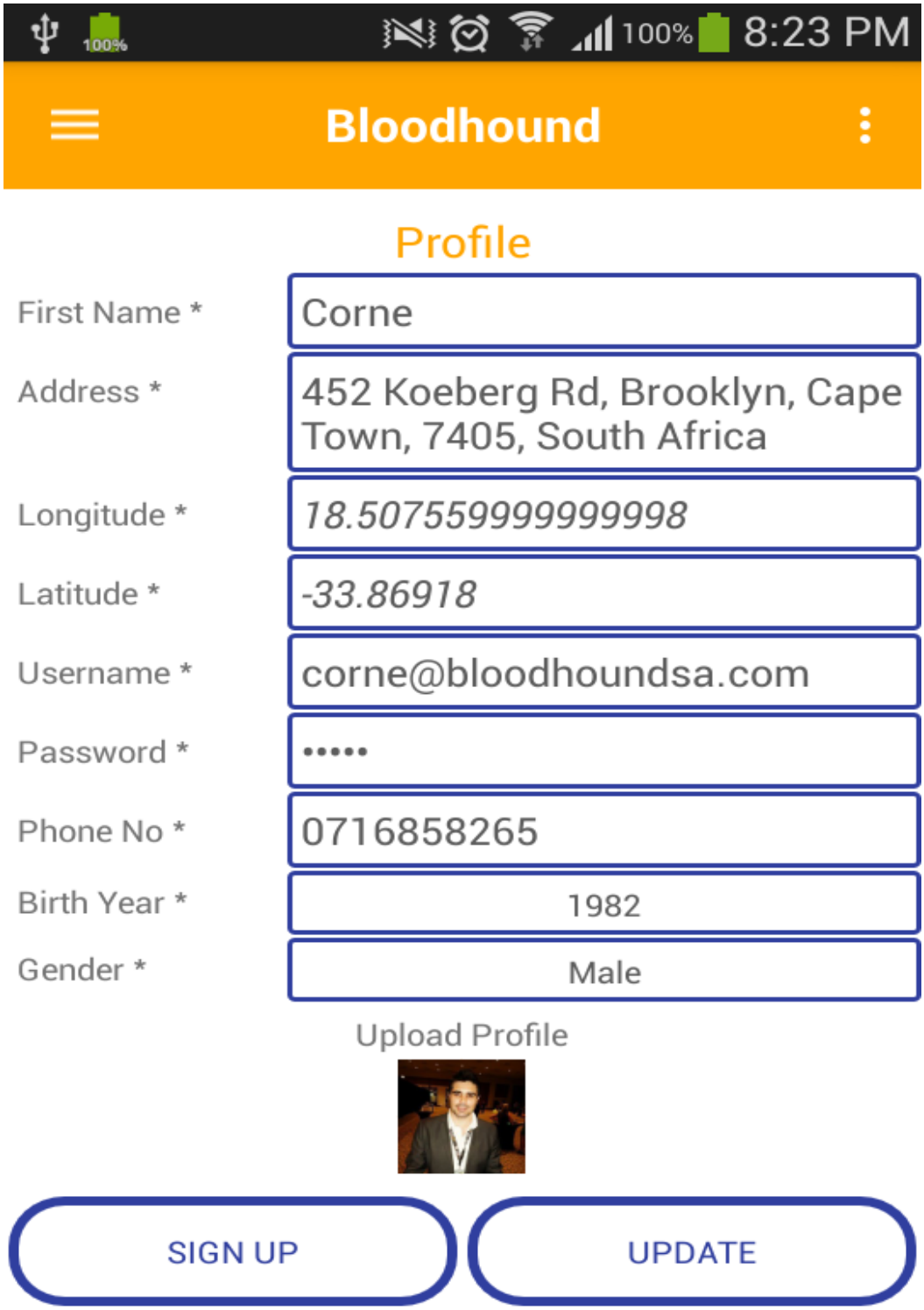
4 **30 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa**
lat/lng: (-33.90334,18.48727)

5 **200 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa**
lat/lng: (-33.90334,18.48727)

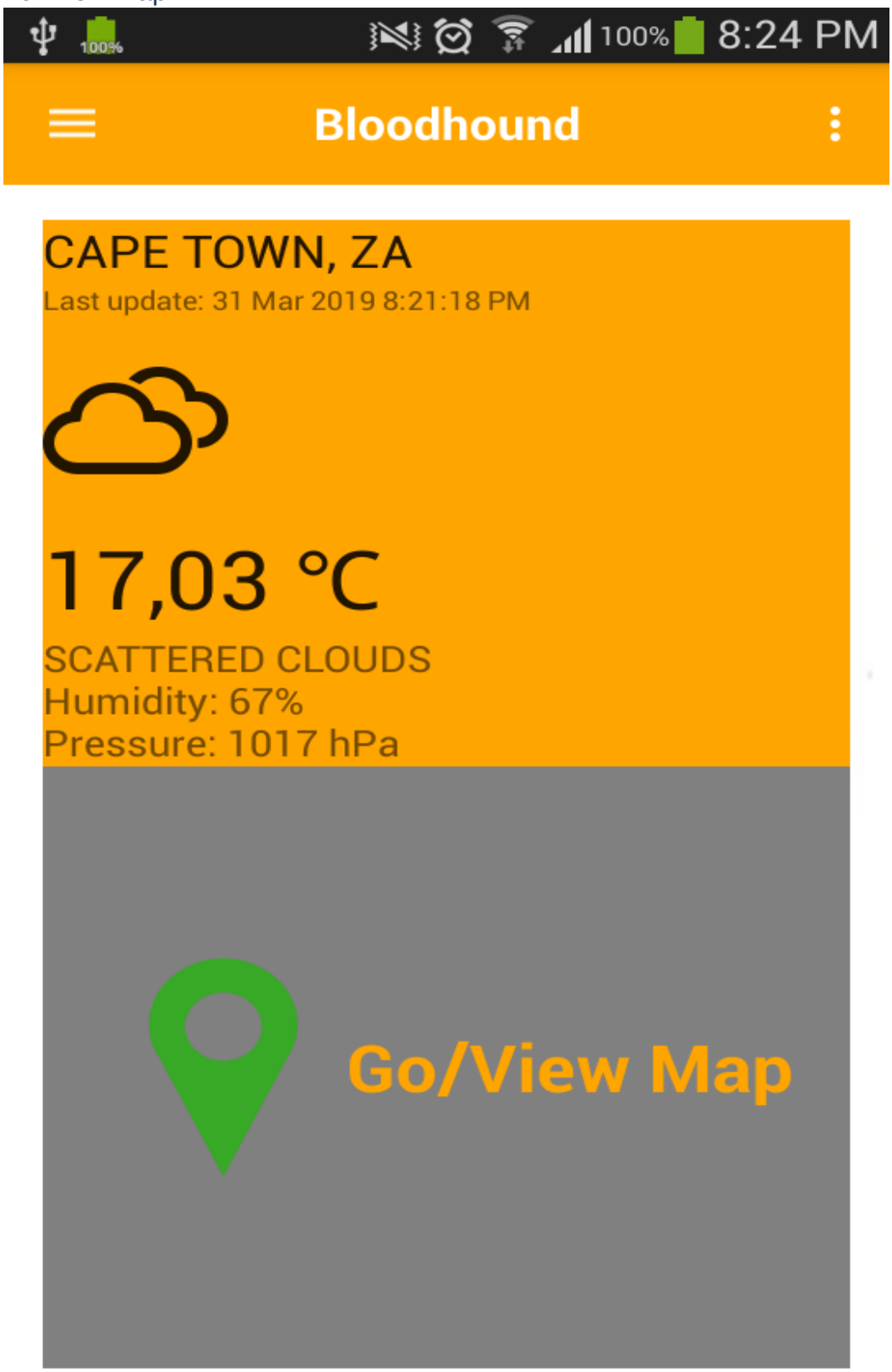
8. Selected Address

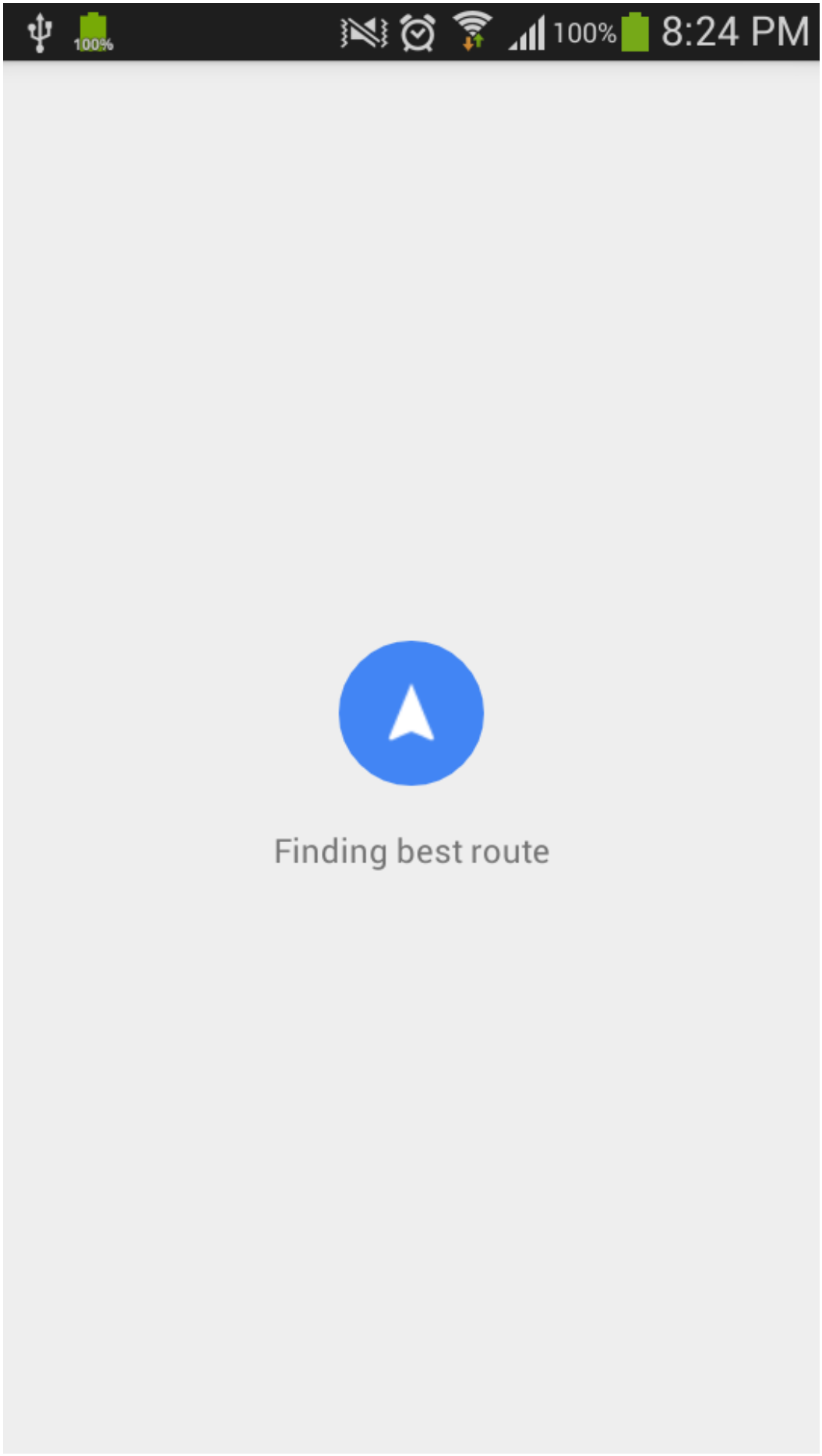

100%
7:50 PM
Bloodhound
Call/SMS me any issues with the App
Select Option
452 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
Edit
View Map
3
1 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
lat/lng: (-33.90334,18.48727)
4
30 Koeberg Rd, Brooklyn, Cape Town,
You've selected 452 Koeberg Rd, Brooklyn, Cape Town, 7405, South Africa
5
7405, South Africa
lat/lng: (-33.90334,18.48727)

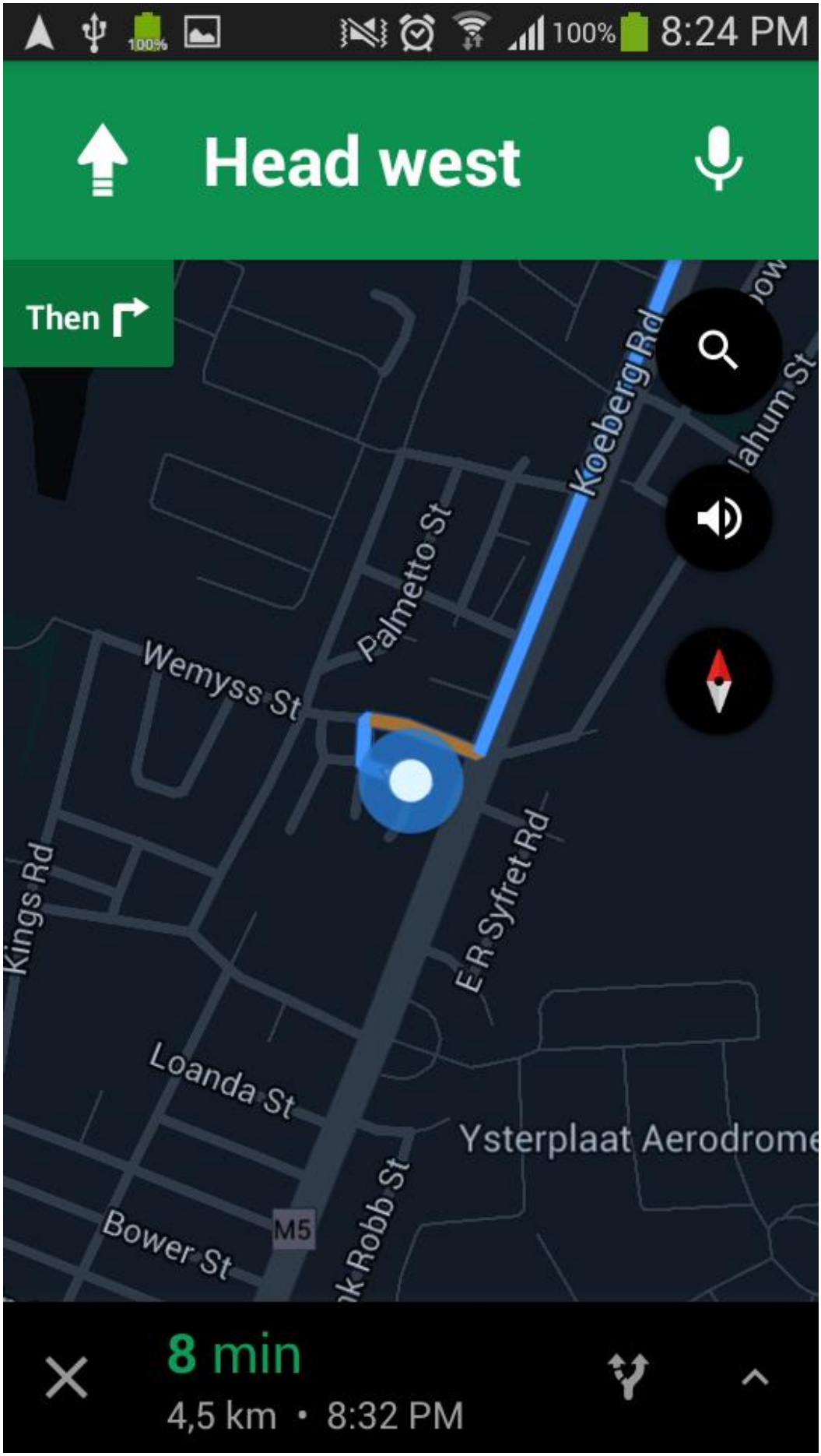
9. Edit Selected Address

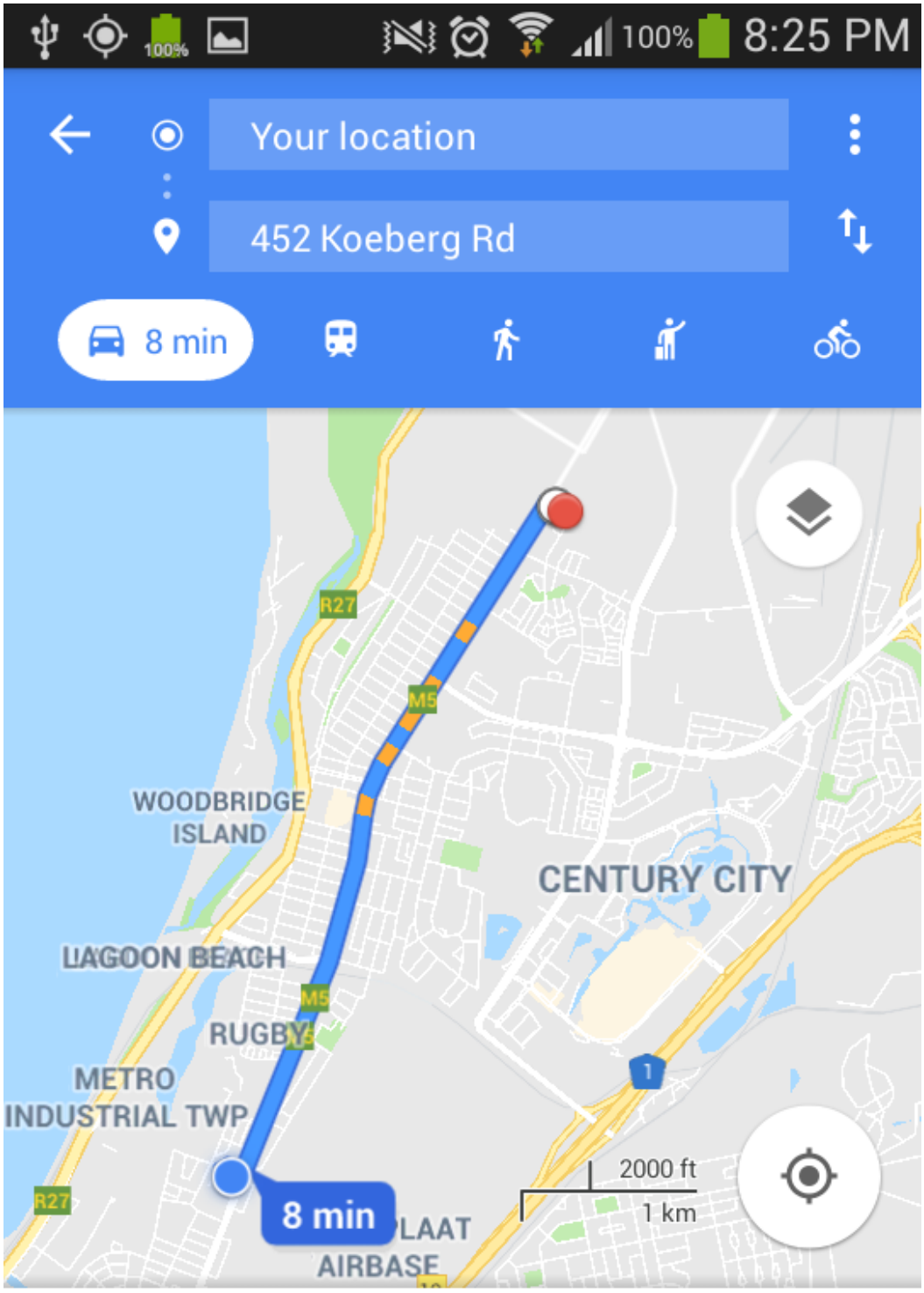


10. View Map


100%
8:24 PM
Bloodhound
CAPE TOWN, ZA
Last update: 31 Mar 2019 8:21:18 PM
17,03 °C
SCATTERED CLOUDS
Humidity: 67%
Pressure: 1017 hPa
Go/View Map


100%
100%
8:24 PM
Finding best route


100%
8:24 PM
Head west
Then
Koeberg Rd
Palmetto St
Wemyss St
Kings Rd
E R Syfret Rd
Loanda St
Ysterplaat Aerodrome
Robb St
M5
Bower St
8 min
4,5 km • 8:32 PM



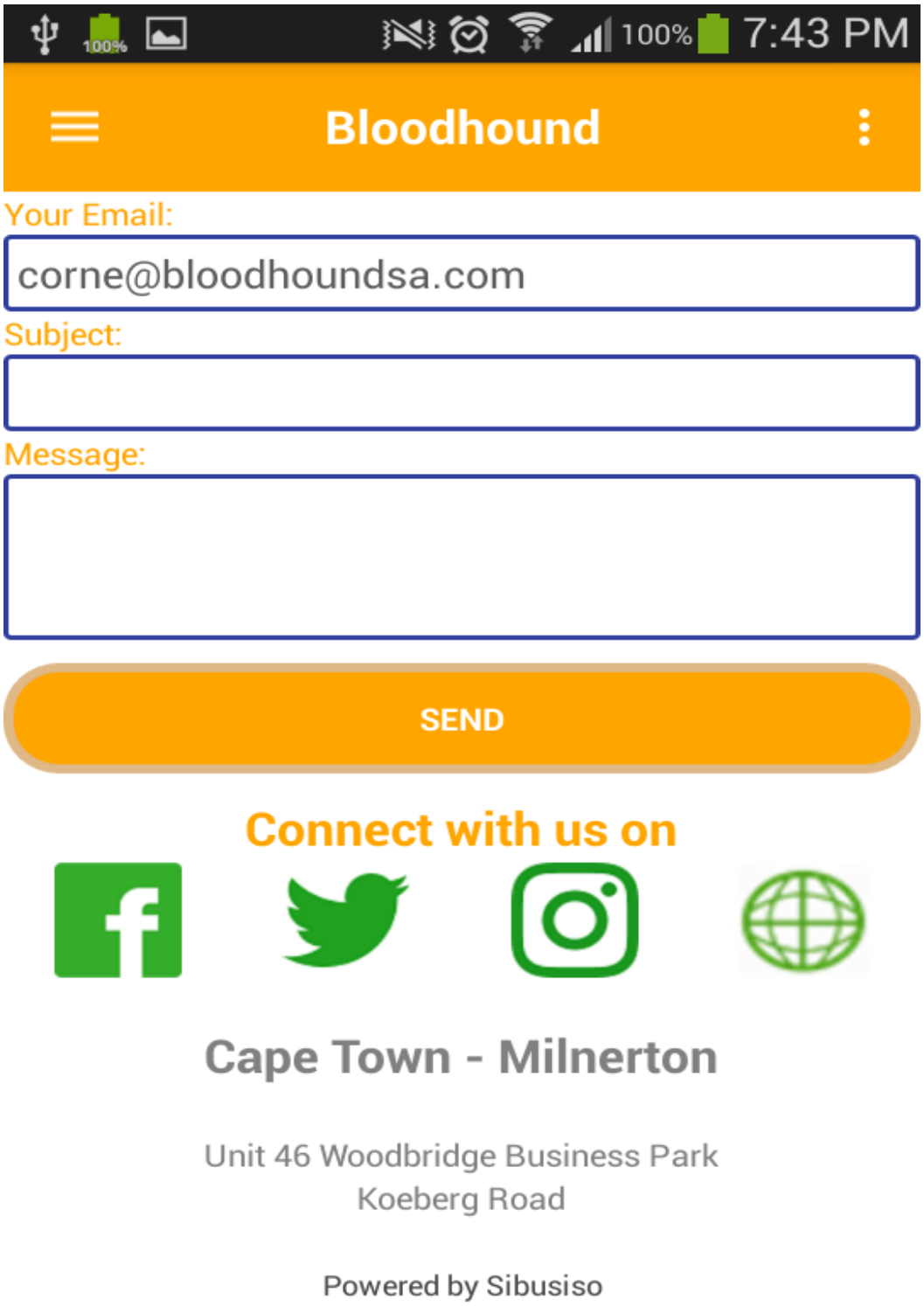
8 min (4,5 km)

Fastest route, the usual traffic

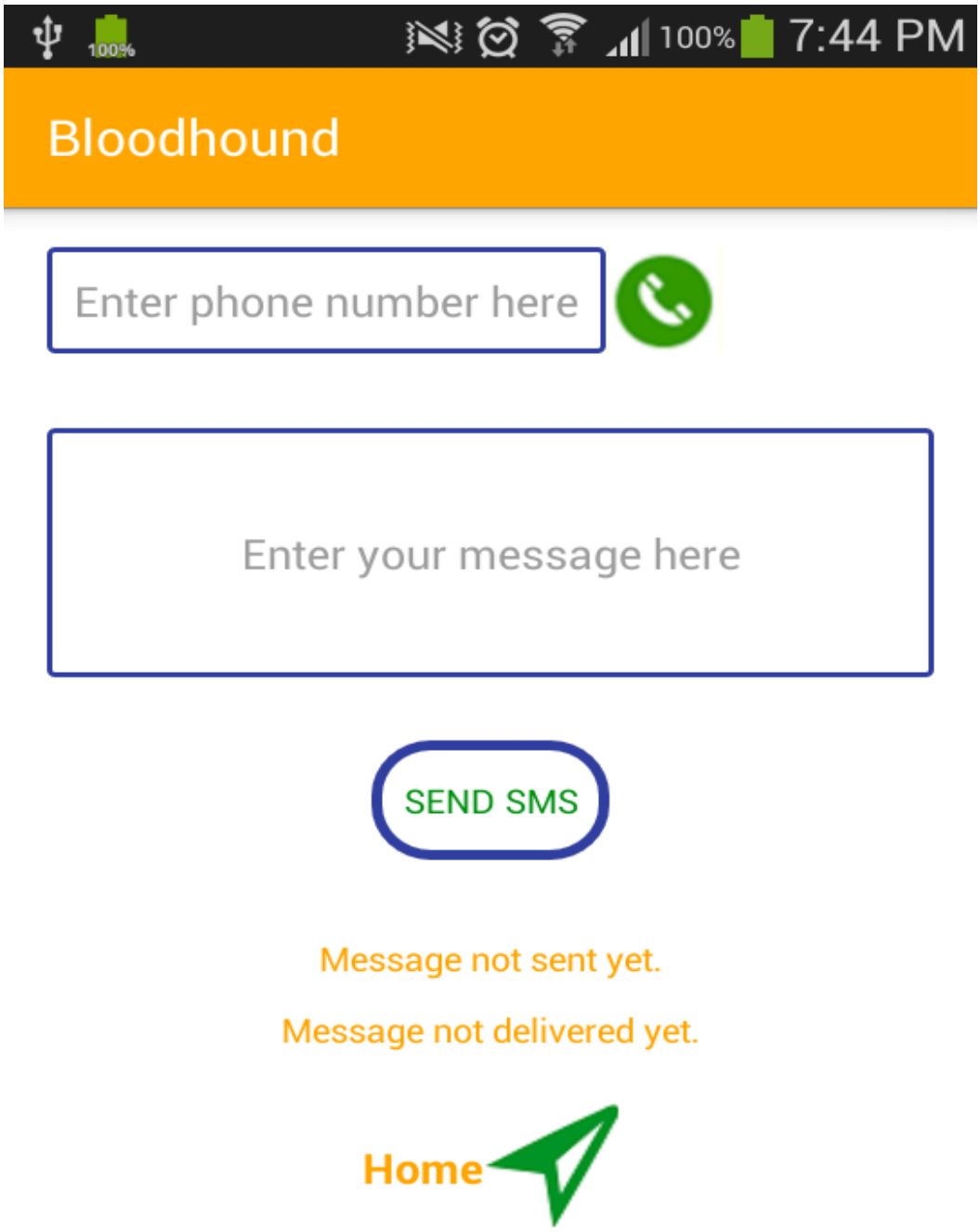
STEPS & MORE

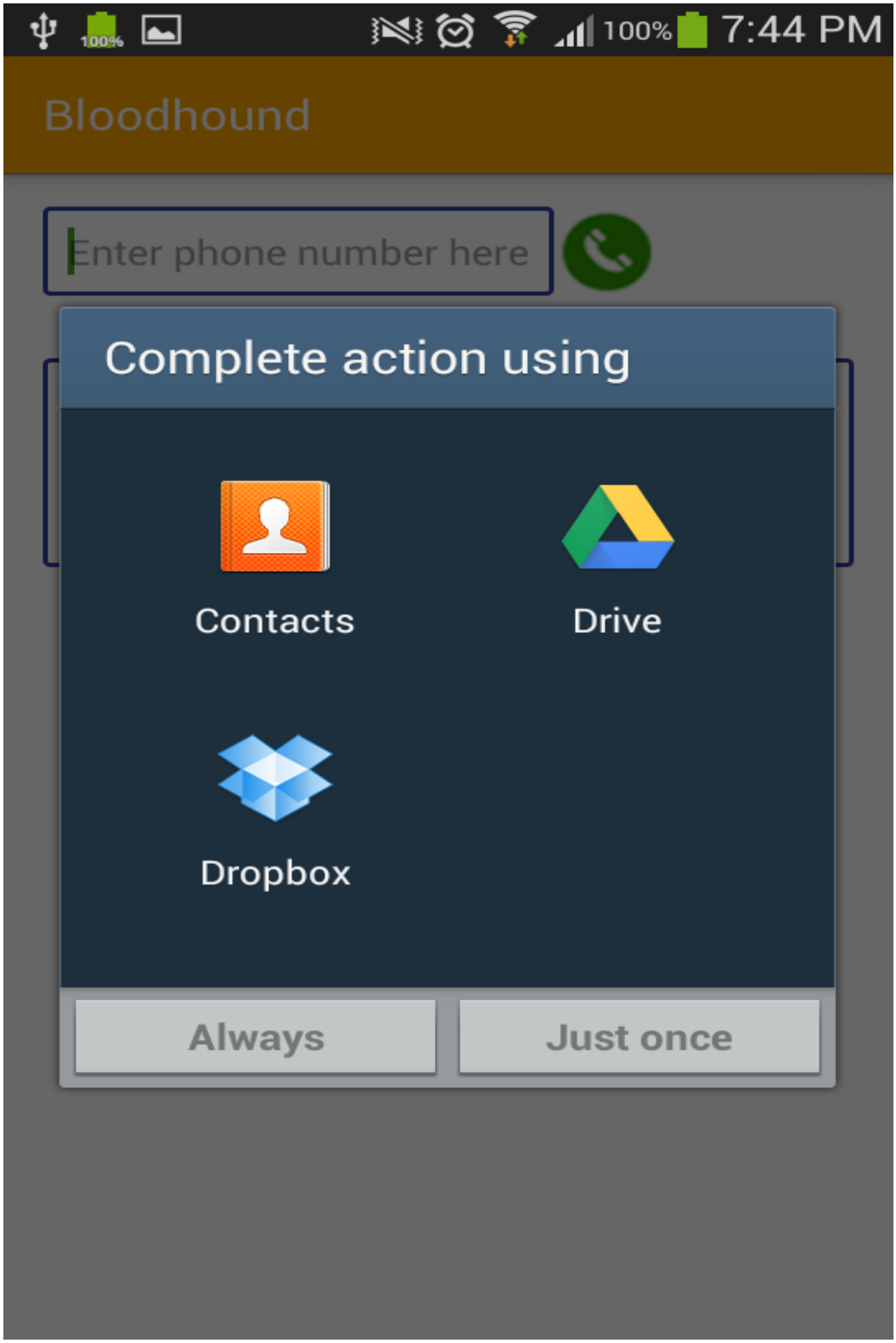
START

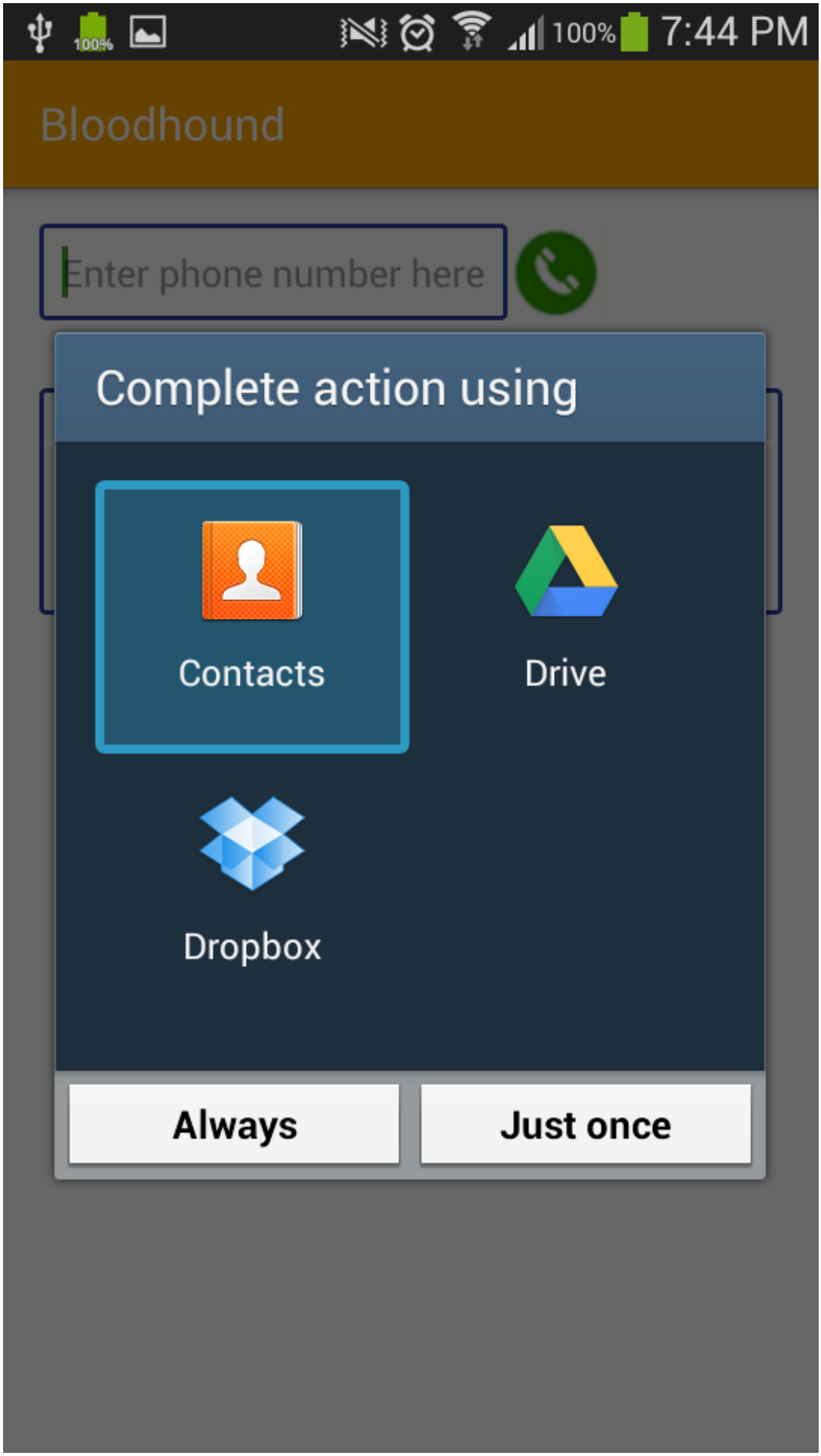
9. Contact Us

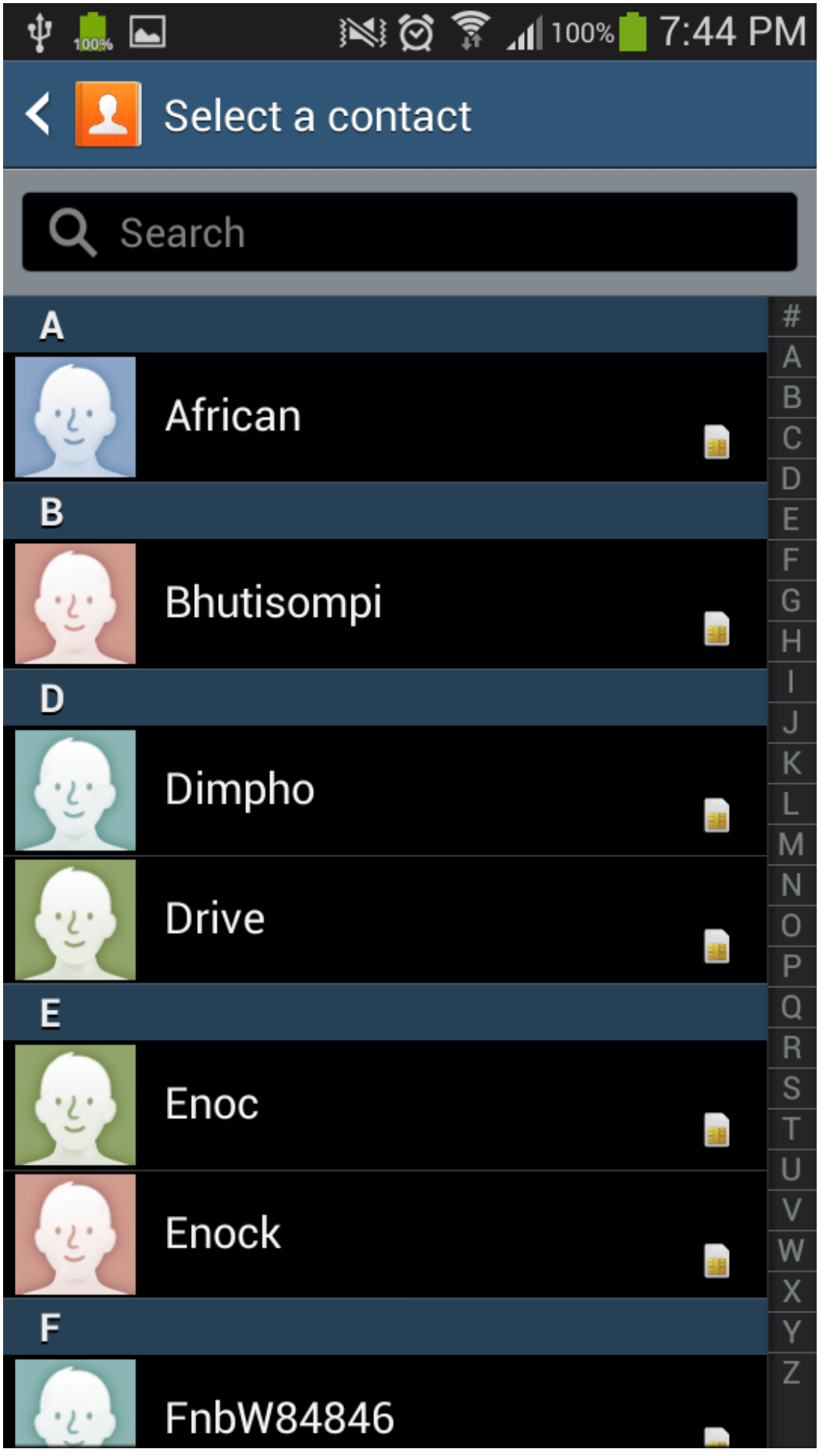

100%
7:43 PM
Bloodhound
Your Email:
corne@bloodhoundsa.com
Subject:
Message:
SEND
Connect with us on
Cape Town - Milnerton
Unit 46 Woodbridge Business Park
Koeberg Road
Powered by Sibusiso

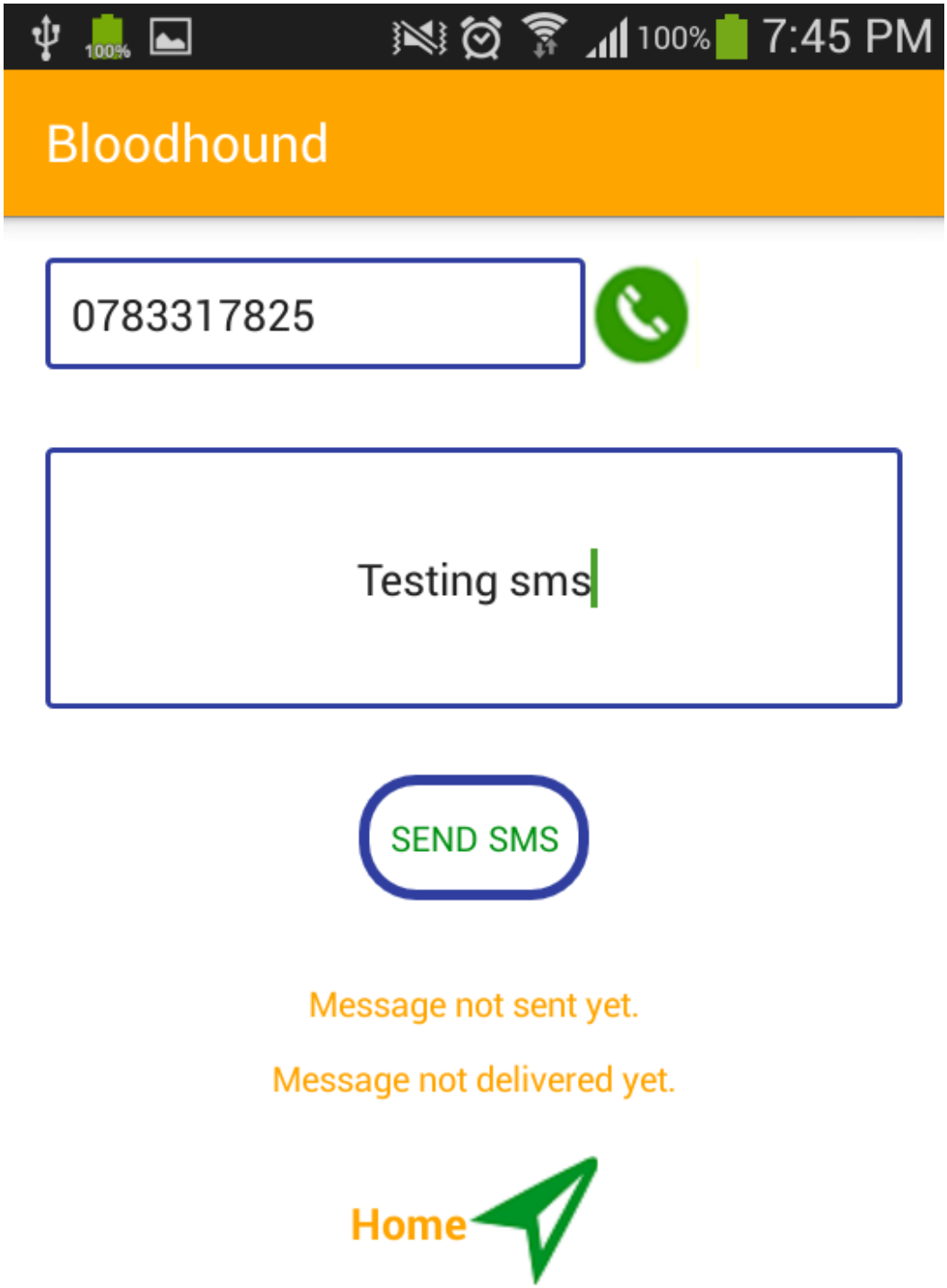
10.Send SMS

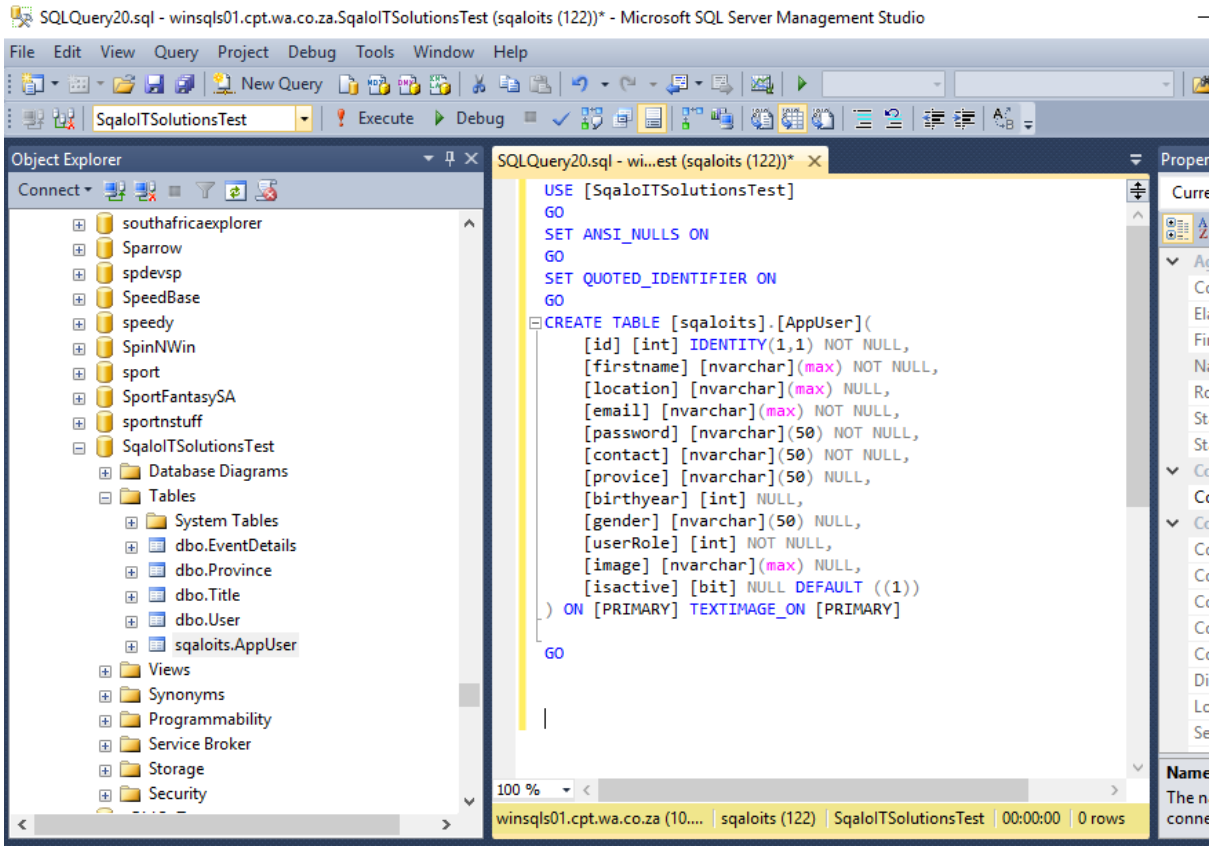

100%
7:44 PM
Bloodhound
Enter phone number here
Enter your message here
SEND SMS
Message not sent yet.
Message not delivered yet.
Home


100%
7:44 PM
Bloodhound
Enter phone number here
Complete action using
Contacts
Drive
Dropbox
Always
Just once


100%
7:44 PM
Bloodhound
Enter phone number here
Complete action using
Contacts
Drive
Dropbox
Always
Just once


100%
7:44 PM
Select a contact
Search
A
African
B
Bhutisompi
D
Dimpho
Drive
E
Enoc
Enock
F
FnbW84846
#
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z


100%
7:45 PM
Bloodhound
0783317825
Testing sms
SEND SMS
Message not sent yet.
Message not delivered yet.
Home


SQLQuery20.sql - winsqls01.cpt.wa.co.za.SqaloITSolutionsTest (sqaloits (122))* - Microsoft SQL Server Management Studio
File Edit View Query Project Debug Tools Window Help
New Query
SqaloITSolutionsTest
Execute
Debug
Object Explorer
Connect
southafricaexplorer
Sparrow
spdevsp
SpeedBase
speedy
SpinNWin
sport
SportFantasySA
sportnstuff
SqaloITSolutionsTest
Database Diagrams
Tables
System Tables
dbo.EventDetails
dbo.Province
dbo.Title
dbo.User
sqaloits.AppUser
Views
Synonyms
Programmability
Service Broker
Storage
Security
SQLQuery20.sql - wi...est (sqaloits (122))*
USE [SqaloITSolutionsTest]
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [sqaloits].[AppUser](
[id] [int] IDENTITY(1,1) NOT NULL,
[firstname] [nvarchar](max) NOT NULL,
[location] [nvarchar](max) NULL,
[email] [nvarchar](max) NOT NULL,
[password] [nvarchar](50) NOT NULL,
[contact] [nvarchar](50) NOT NULL,
[provice] [nvarchar](50) NULL,
[birthyear] [int] NULL,
[gender] [nvarchar](50) NULL,
[userRole] [int] NOT NULL,
[image] [nvarchar](max) NULL,
[isactive] [bit] NULL DEFAULT ((1))
) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
GO
100 %
winsqls01.cpt.wa.co.za (10....
sqaloits (122)
SqaloITSolutionsTest
00:00:00
0 rows