Alan S Mathew
13 July 2020

Find

Abstract

Find is a Web, Android, iOS, Mac, linux, and windows compatible applications, to Geo- Locate devices even if they are offline. This application will frequently sent current GPS location, Device id and User id with the help of low power bluetooth signal. Other devices within the bluetooth range will collect those distrust signal and sent it to the server. So that the owners can know the exact location for that specific device. First implementation will on a web app based on php, sql and Python.

Users

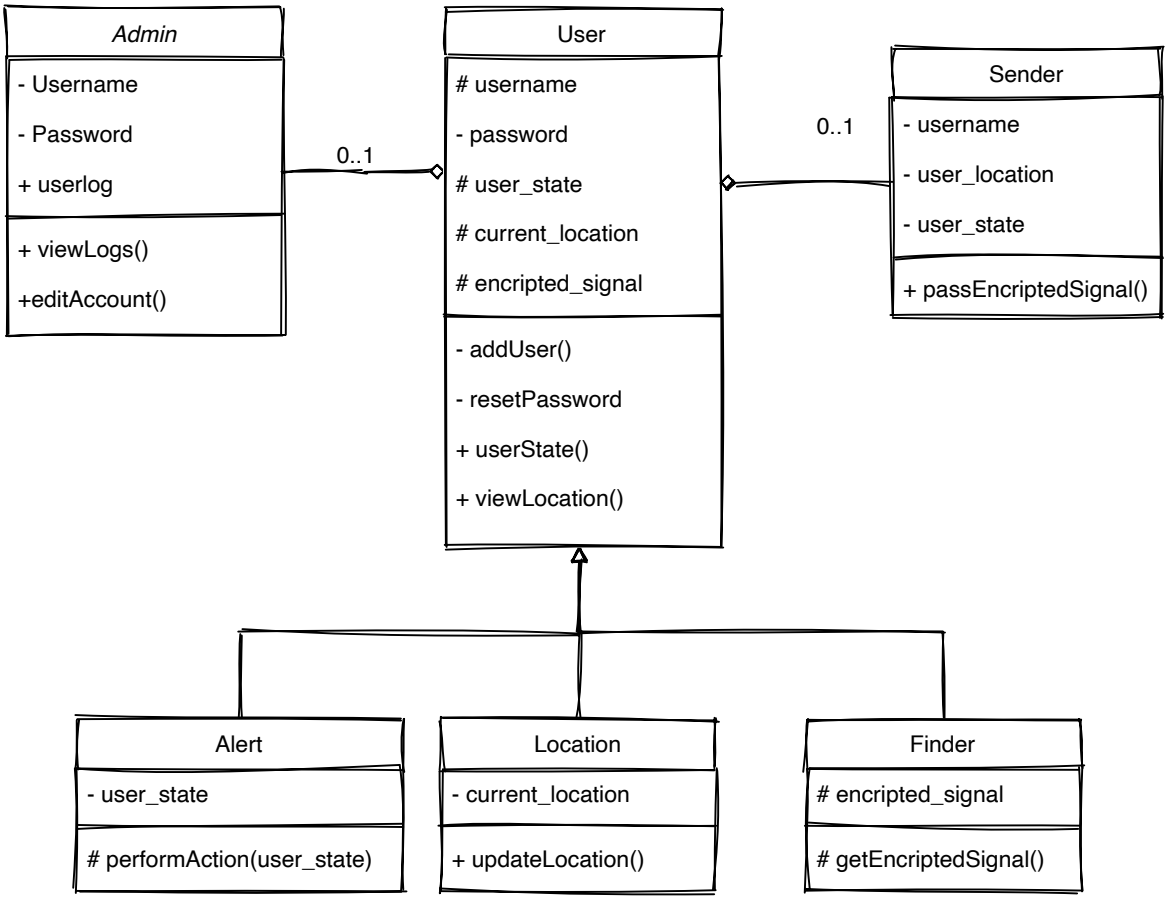
- **Device Location :** View multiple devices location on a map.
- **User account management :** Change account details and add multiple devices.
- **Alert device :** An alert sound can be play on lost devices remotely.

Admin

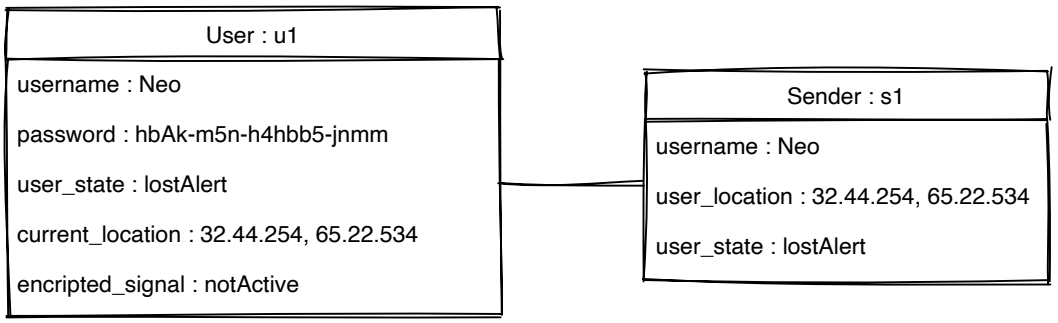
- **Data & bug fixes :** Full authority over database and Application management.

Structural Diagrams

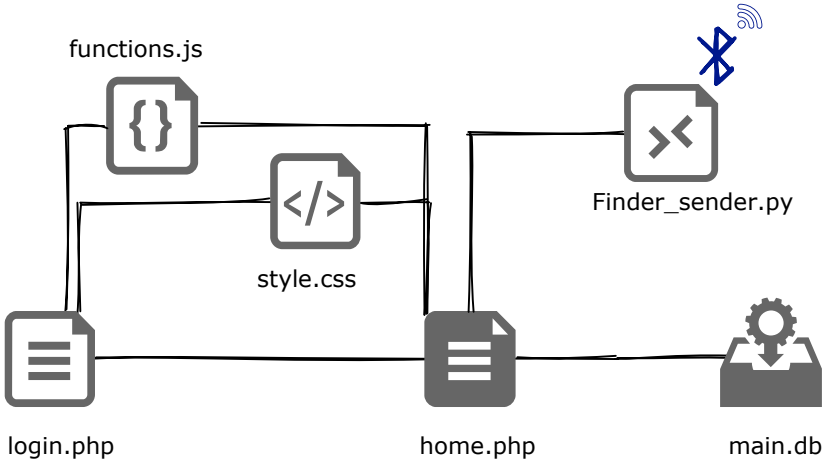
Class diagram



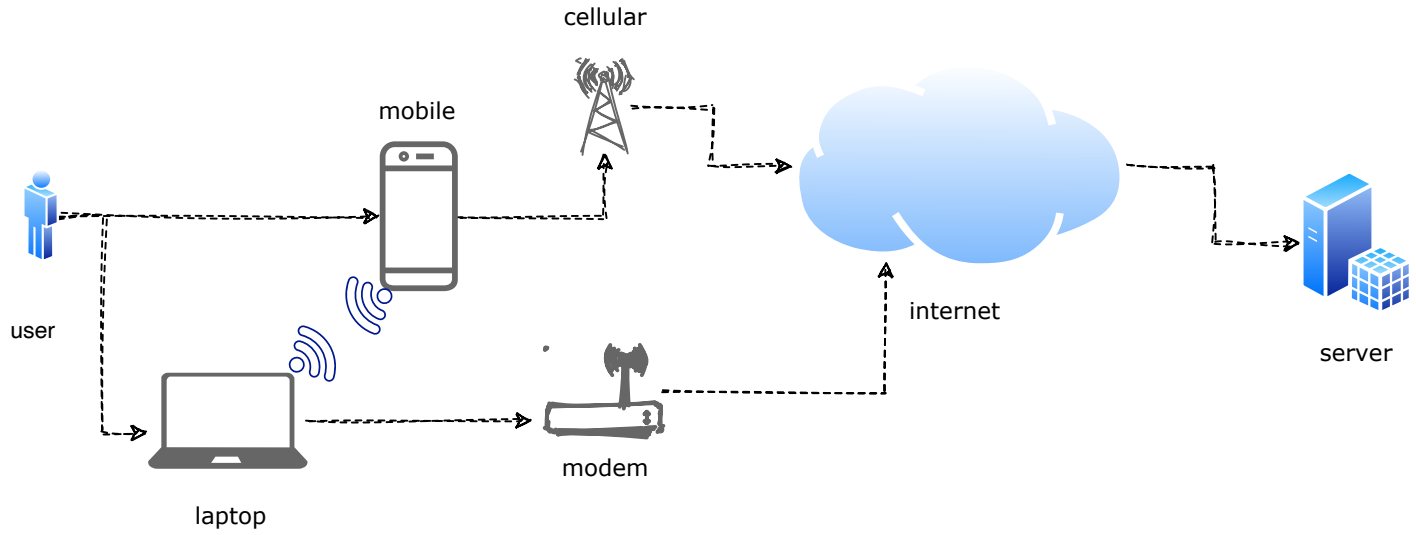
Object diagram



Component diagram

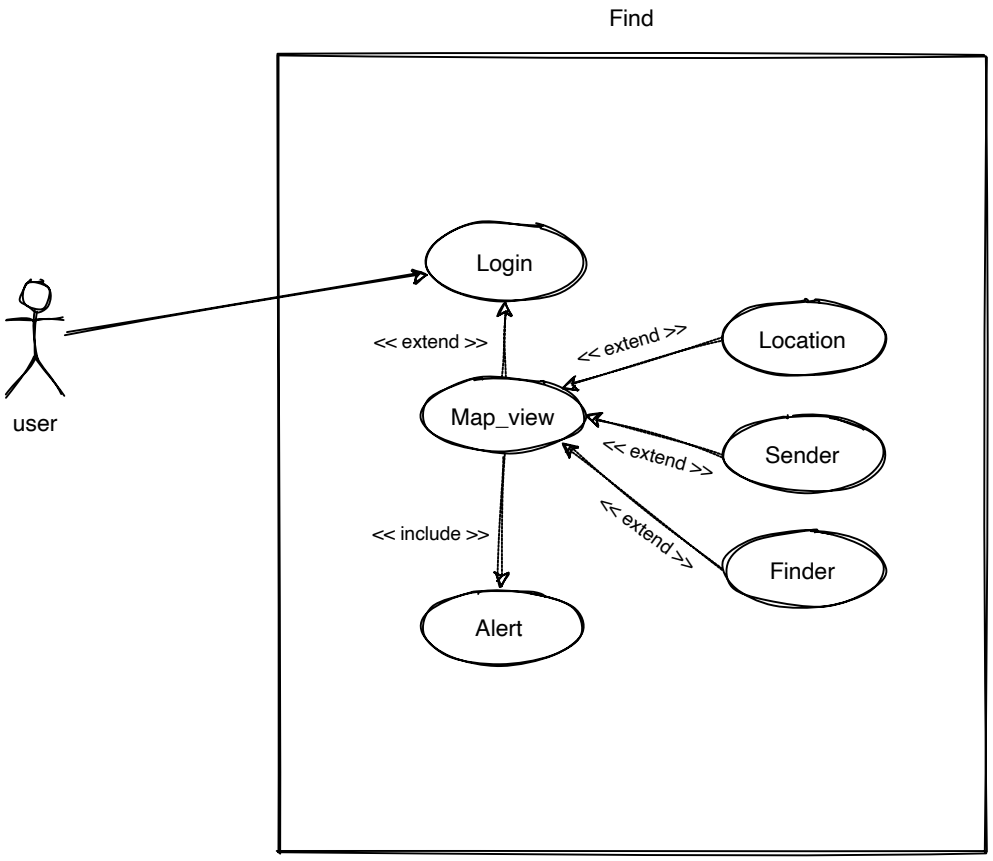


Deployment diagram

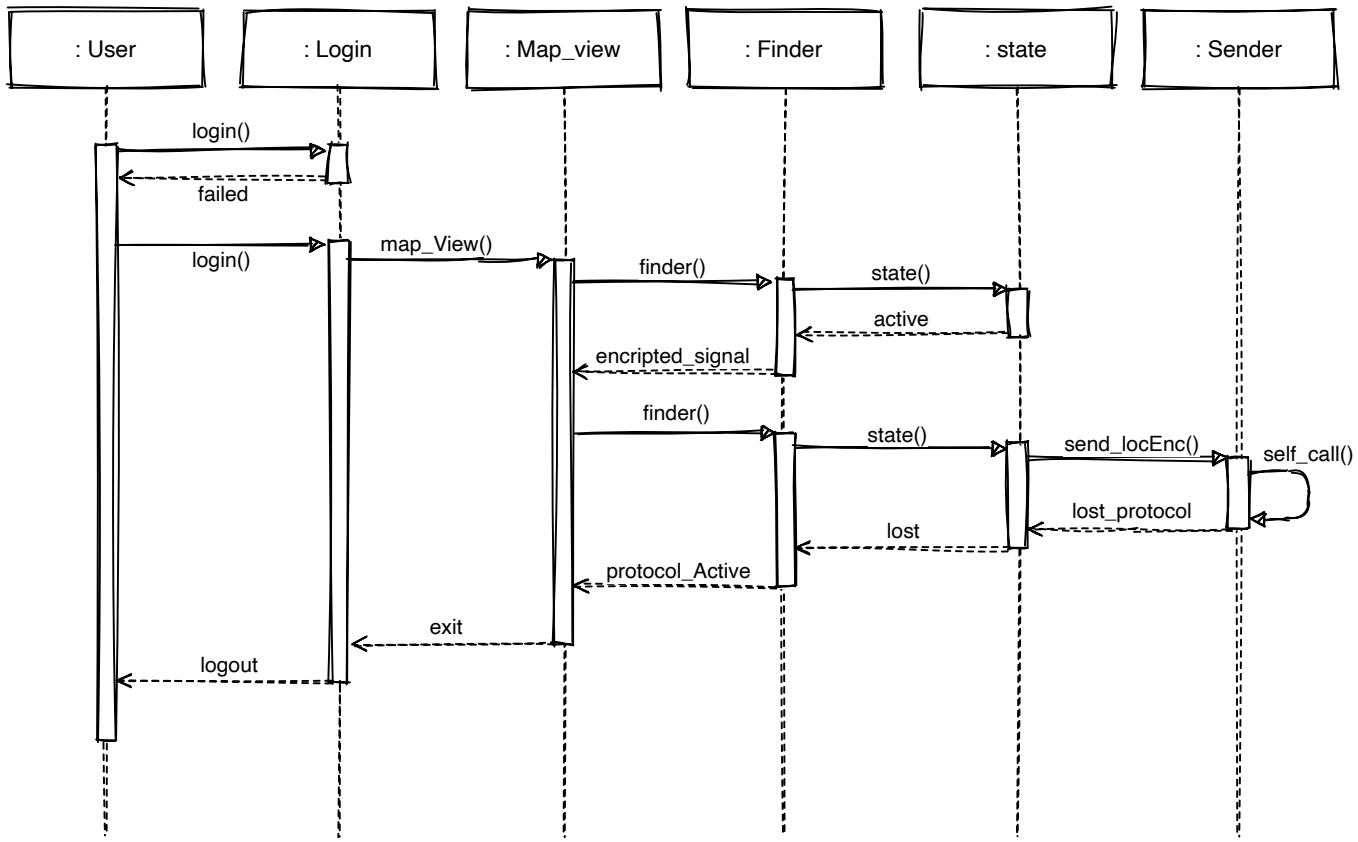


Behavioral diagram

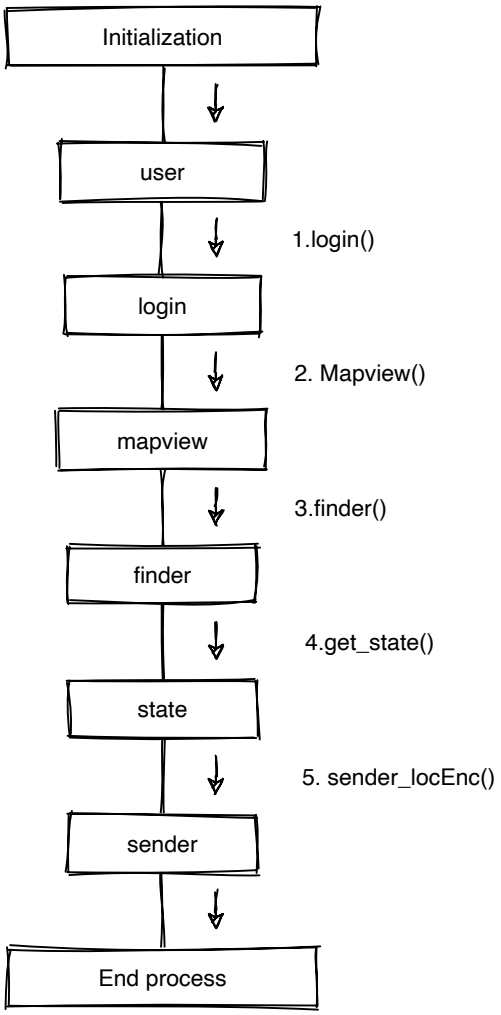
Usecase diagram



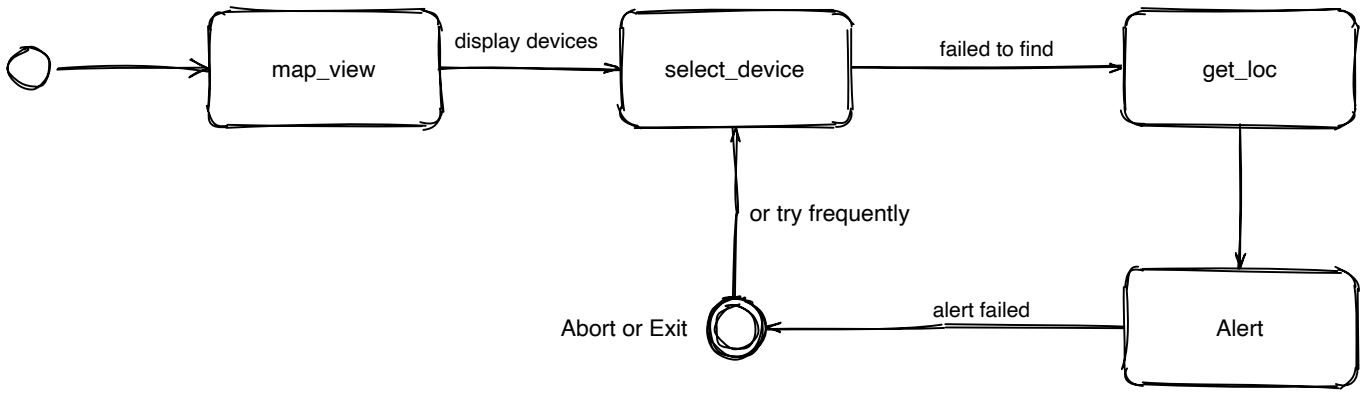
Sequence diagram



Collaboration diagram



State chart diagram



Activity diagram

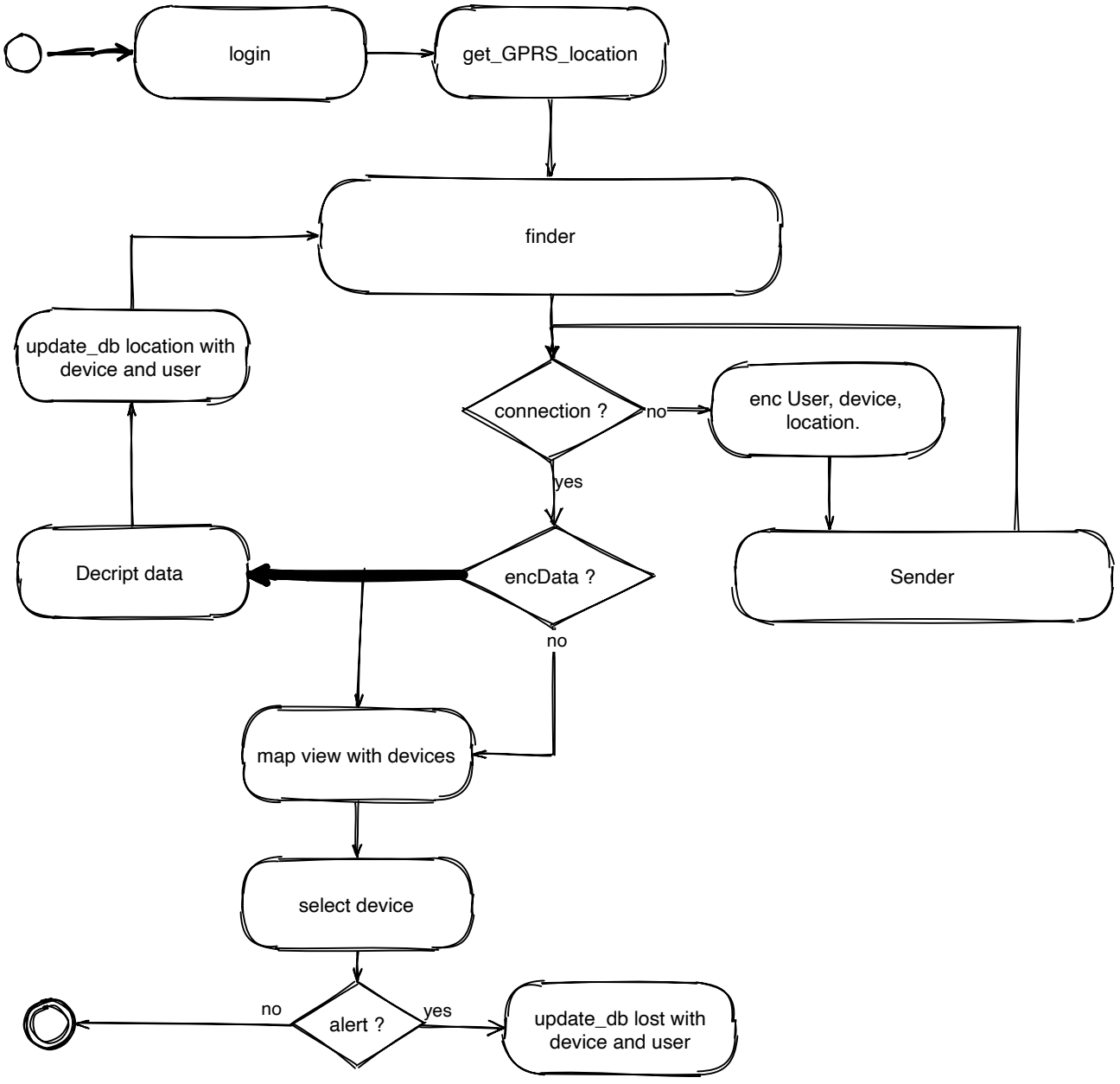


Table Design

Tbl_user_login :

Sl no	Field name	Datatype	Description
1	Login_id	int	*Primary key*
2	username	Varchar2	*Unique username*
3	password	Varchar2	*Strong password for login*
4	status	Int	*1-active | 0-not active*

Satisfies : **3NF,** since each column have different names and are atomic (1NF) there exist no partial (2NF), or transitive dependencies (3NF).

Tbl_user_reg :

Sl no	Field name	Datatype	Description
1	Reg_id	int	*Primary key*
2	Login_id	int	*foregin key*
3	Name	Varchar2	*Name of user*
4	e-Mail	Varchar2	*Primary email address*
5	Phone	Varchar2	*Unique*

Satisfies : **3NF,** since each column have different names and are atomic (1NF) there exist no partial (2NF), or transitive dependencies (3NF).

Tbl_security :

Sl no	Field name	Datatype	Description
1	Security_id	int	*Primary key*
2	Reg_id	int	*foregin key*
3	q_one	Int	*Question id*
4	one_answer	Varchar2	*Answer*
5	q_two	Int	*Question id*
6	two_answer	Varchar2	*Answer*

Satisfies : **3NF,** since each column have different names and are atomic (1NF) there exist no partial (2NF), or transitive dependencies (3NF).

Tbl_security_questions :

Sl no	Field name	Datatype	Description
1	Question_id	int	*Primary key*
2	Security_id	int	*foregin key*
3	Questions	Varchar2	*Questions*

Satisfies : **3NF,** since each column have different names and are atomic (1NF) there exist no partial (2NF), or transitive dependencies (3NF).

Tbl_user_device :

Sl no	Field name	Datatype	Description
1	Device_id	int	*Primary key*
2	Reg_id	int	*foregin key*
3	Device_name	Varchar2	*Name of the device*
4	State	Varchar2	*Active, Lost*
5	Latitude	Varchar2	*Gps location latitude*
6	Longitude	Varchar2	*Gps location longitude*
7	Status	Int	*1-active | 0-not active*

Satisfies : **3NF,** since each column have different names and are atomic (1NF) there exist no partial (2NF), or transitive dependencies (3NF).