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I-Guard

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***Abstract*: Initially the GPS continuously takes input data from the satellite and stores the latitude and longitude. With the help of propose system we can track our mobile. In proposed system if we want to track mobile location then we need to send a message to our device, by which it gets activated. Once application gets activated it takes the current latitude and longitude positions values from the GPS and sends a mail to the particular emailed which is predefined at registration. Proposed system could be used to track children current location.**

***Keywords*: Anti-theft, Smartphone, Android, GPS, SMS, Pin**

1. Introduction

The mobile technology has changed a lot and in the last few years we have seen the arrival of various new kinds of gadgets in the form of Smartphone, camera-phone, Android and tablet phones. Latest gadgets can be used for various purposes like browsing mobile, internet, playing games, emailing, and blogging, messaging, GPS, YouTube, Google search, Gmail and more. The Global Positioning System (GPS) is a location system based on a constellation of 24 to 32 satellites orbiting round the earth at altitudes of 11,000 miles. Each satellite is powered by the Sun via its solar panel., it is used as navigation tool device to assist us in finding the shortest route to our destination. We can use GPS to find lost mobile phone or parents can track to their children location.

2. Architecture of I Guard

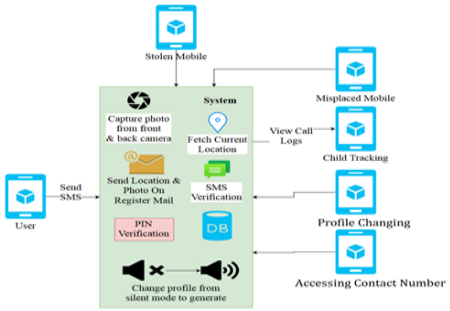

Fig. 1. Architecture of IGuard

Usersinstallapplicationonhis/herandroidphone.Usersregisteri ntosystem. After successful registration user login into system. After successful login user set his secret PIN. Whenever user want to change profile mode from silent to general OR want to track mobile location OR track children location and call logs; user send SMS. System verify SMS and match PIN, if SMS and PIN get match then system capture photo from front and back camera of phone. System identify battery status if battery is less than specific battery level OR any one change SIM card then system capture photo from front and back camera as well as capture current location and send to register mail id.

3. Applications of IGuard

To track mobile location with photo from front and back camera. To get call log details of children mobile also mobile location. To get location when SIM card exchange with new SIM card. To change mobile SILENT mode to ringing mode To access contact number with the help of another smartphone by using pin.

A. System feature

Stolen Mobile Detection: In this case user will send SMS on stolen mobile in pre-defined format with PIN. System will fetch current location and capture photo from front and back camera. This information then sends to register email id. Misplaced Mobile Detection: In this case user will send SMS on misplaced mobile in predefined format with PIN. System will change silent profile to general profile also system will fetch current location and capture photo from front and back camera. This information then sends to register email id. Child Tracker: In this case parent will send SMS on child's mobile in predefined format with PIN. System will fetch current location and capture photo from front and back camera. This information then sends to register email id. Parent also can check children's call logs *Profile Changing:* In this case system will change profile automatically. System will fetch current location and change profile automatically. Accessing Contact Number.: In this case user will access our contact number with the help of another smartphone by using pin through accessing contact number.

B. Project scope

Proposed system could be used to track location in different conditions. System also used to take photo of surrounded area.

4. Objectives of I Guard

If mobile is on silent mode and user try to search phone then it's very hard search phone even in room. So propose system help to search phone easily. User can track mobile location easily. User just needs to send SMS with PIN. User can track child location as well as call logs. User just needs to send SMS

with PIN. User gets location information after changing SIM card. When person is in a particular place then system can change profile automatically. System just needs to fetch current location.

User can access contact number with the help of another smartphone by using pin.

5. Conclusion

Proposed system is anti-theft mobile tracking application. This application provides strong security to Smartphone when it is lost or stolen by thief. It gives the location as well as photos of thief to user on emails id provided by user Parents can easily track their children's locations. In future user can start internet of mobile by sending SMS.

References

[1]] C. Kitts and M. Egerstedt, "Design, control, and applications of real world multi-robot systems," IEEE Robot. Autom. Mag., vol. 15, no. 1, p. 8, Mar. 2008.

[2] J. Cashbaugh and C. Kitts, "Optimizing sensor location in a multi-sensory single-object tracking system," Int. J. Distrib. Sensor Netw., vol. 11, no. 7, pp. 115, Jul. 2015.

[3] P. Corke et al., "Experiments with underwater robot localization and tracking," in Proc. IEEE Int. Conf. Robot. Autom., Rome, Italy, 2007, pp. 4556-4561.

[4] S. Wen, Z. Cai, and X. Hu, Constrained extended kalman filter for target tracking in directional sensor networks, Int. J. Distrib. Sensor Netw., vol. 11, no. 5, pp. 113, May 2015.

[5] R. R. Nair, L. Behera, V. Kumar, and M. Jamshidi, Multi satellite formation control for remote sensing applications using artificial potential fields and adaptive fuzzy sliding mode control," IEEE Syst. J., vol. 9, no. 2, pp. 508-518, June 2015.

[6] J. Curcio, et. al., Experiments in moving base line navigation using autonomous surface craft, in Proc. OCEANS, Washington, DC, USA, 2005, pp. 730-735.

[7] A. Bahr, J. Leonard, and M. Fallon, Cooperative localization for autonomous under-water vehicles, Int. J. Robot. Res., vol. 28, no. 6, pp. 714-728, Jun. 2009.

[8] A. Bahr, J. Leonard, and A. Martinoli, "Dynamic positioning of beacon vehicles for cooperative underwater navigation," in Proc. IEEE Int. Conf. Intell. Robots Syst., Vil-amoura, Algarve, 2012, pp. 3760-3767.