**Title of the Invention**

TALAASH (Track and Trace Anything Lost Anywhere Anytime Simply from Home)

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**Description to the Invention**

TALAASH is an Application that creates a Digital environment for users to track missing persons, personal property or pets.  
It uses Location Based API to navigate the possible coordinates where the subject was last spotted or is currently Present.  
After which it alerts the other users present on the network as well as government officials available within the designated proximity.   
Allowing them to provide aid to the missing subject ASAP by sharing its live location.  
Not only this it using its dual channel sign in Module.  
This will also help the Police department to share their databases of wanted suspects/criminals privately resulting in an easy and less time consuming method to control crime and build better connectivity between the Law enforcement bodies across the nation.

Moreover, the Application will allow advanced real time tracking and surveillance of the assigned subjects *via the Talaash Trackers components:-*

1. **T-Toe : For Human beings**
2. **T-Tag : For Items**

**3. T-Tame: For Pets**  
**A. Problem Addressed by the Invention;-**

India has a worrying number of cases of missing persons.  
**PEOPLE**- In 2019,  ***(National Crime Report Bureau)*** *data revealed that******4,22,439 women and 2,70,433 men******were reported missing in India.* It is a disturbing total of **693,003** women and men missing across our country; and **121** transgenders too. Reports;-**NCRP** National Crime Report Bureau (Ministry of Home Affairs)

### Statistics show that (Approximately) 88 women, kids, and men go missing by the hour, **2,130 people** go missing every day. 64,851 people every month, [https://worldpopulationreview.com/country-rankings/missing-persons-statistics-by-country#:~:text=India%20The%20country%20has%20a%20worrying%20number%20of,missing%20every%20day%2C%20and%2064%2C851%20people%20every%20month](https://worldpopulationreview.com/country-rankings/missing-persons-statistics-by-country#:~:text=India%20The%20country%20has%20a%20worrying%20number%20of,missing%20every%20day%2C%20and%2064%2C851%20people%20every%20month.) Over **59,000** Children Went Missing In India In 2020.According to a *Report by NDTV*[Over 59,000 Children Went Missing In India In 2020: Report (ndtv.com)](https://special.ndtv.com/justice-for-every-child-87/news-detail/over-59-000-children-went-missing-in-india-in-2020-report-2579813/7) **73,138** Children were Reported Missing in 2019:- Reports;- Statistica.com[India: number of missing children | Statista](https://www.statista.com/statistics/1170109/india-number-of-missing-children/) Some 174 children go missing every day. Only about 50% of them are ever found again.[The story behind the statistics of India’s missing children is complex - The Hindu](https://www.thehindu.com/society/indias-missing-children-what-the-whatsapp-rumours-dont-tell-you/article24641527.ece) More than 63 million women 'missing' in India, statistics show *Reports:- The Gaurdian.com*[More than 63 million women 'missing' in India, statistics show | India | The Guardian](https://www.theguardian.com/world/2018/jan/30/more-than-63-million-women-missing-in-india-statistics-show)

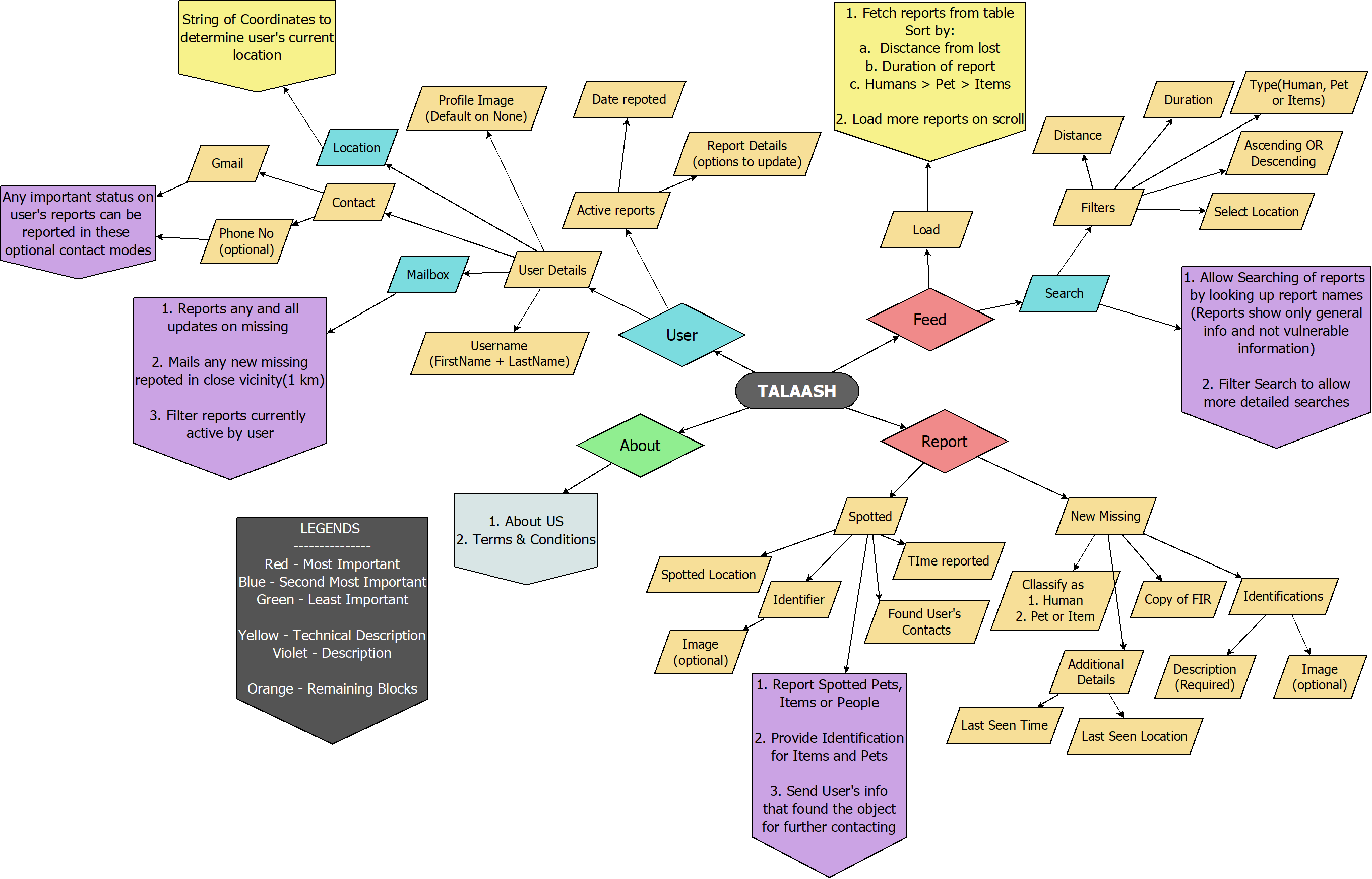
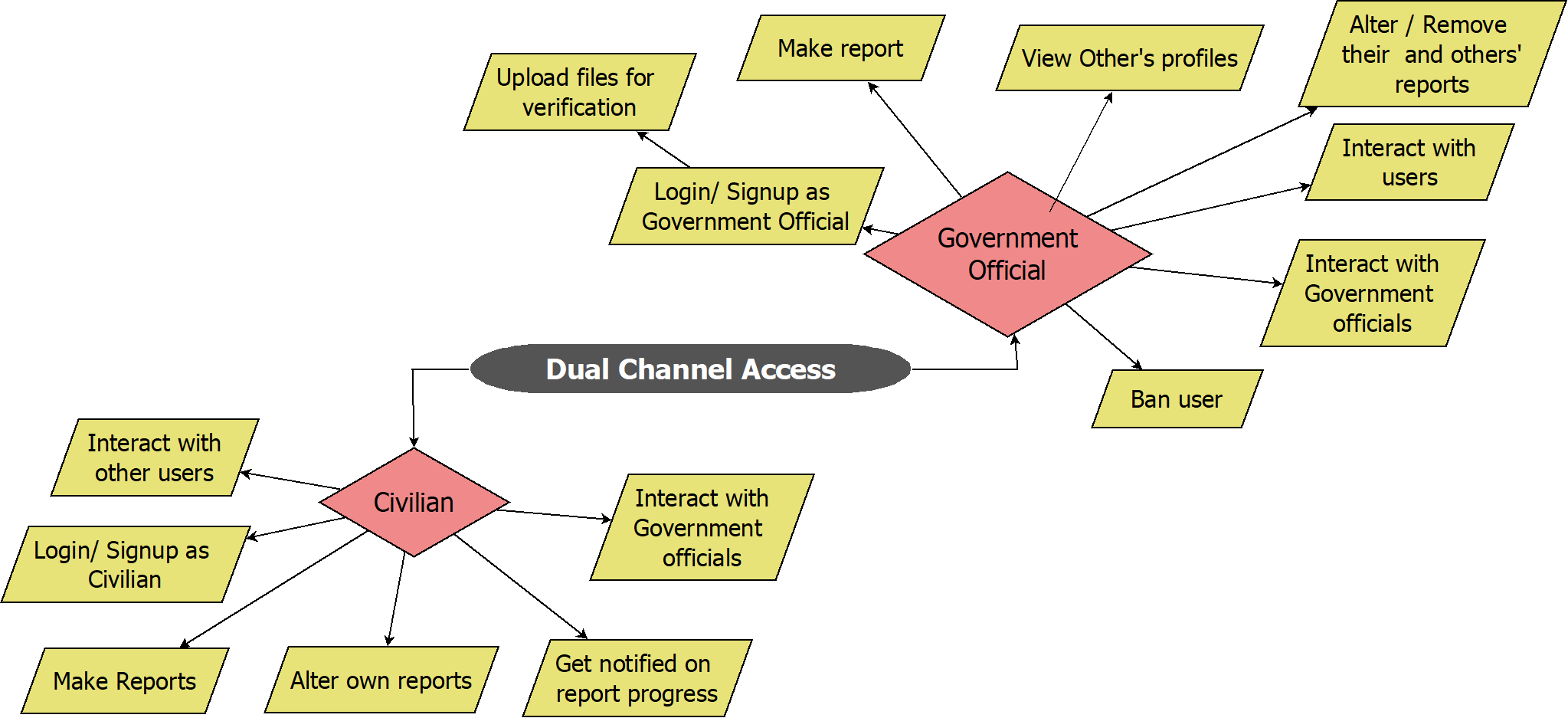
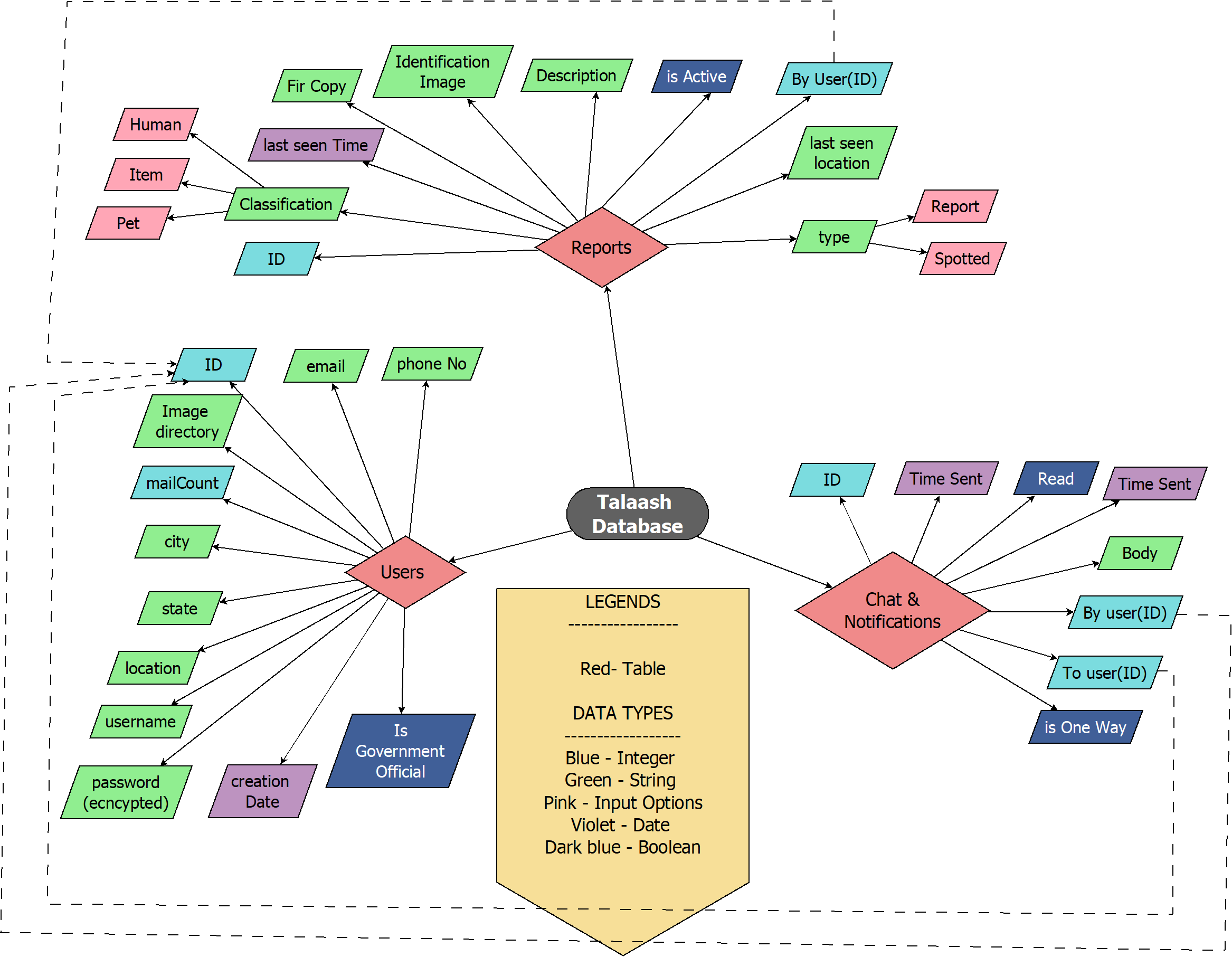
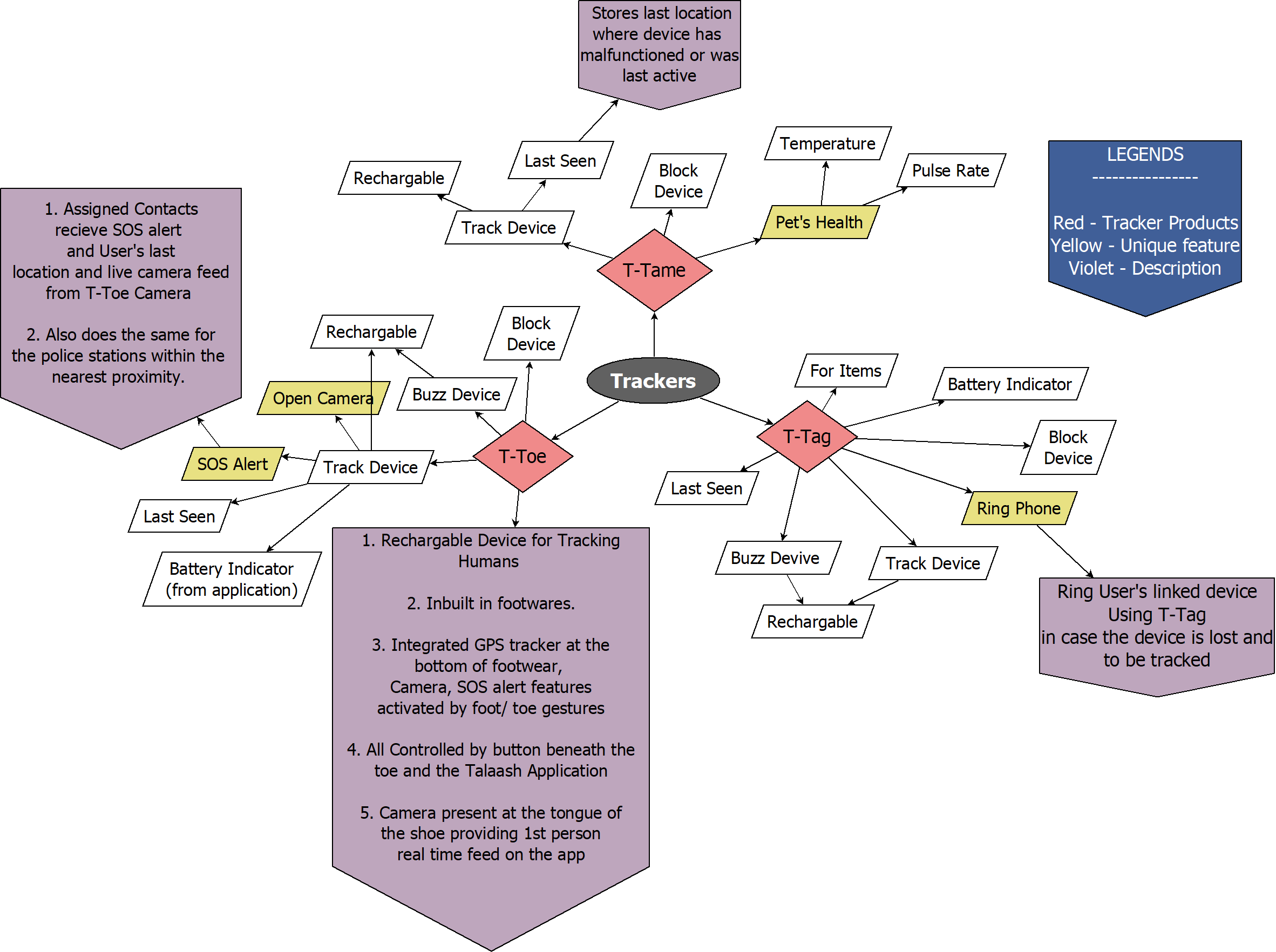
## **ITEMS**- **134** cellphones and **8** Laptops lost, stolen daily in city, FIR registered in **3%** of the cases thieves or those using stolen phones are having a heyday as out of the total **52,883** phones that were lost, an FIR for stolen or missing phones is registered only in **1,853** cases or just 3.5 per cent of them, shows data obtained under the *RTI Act by The Indian Express.*[134 cellphones lost, stolen daily in city, FIR registered in 3% of the cases: RTI | Mumbai News (indianexpress.com)](https://indianexpress.com/article/cities/mumbai/134-cellphones-lost-stolen-daily-in-city-fir-registered-in-3-pc-of-the-cases-rti-7873867/)**PEOPLE WITH SPECIAL NEEDS-** It can be used by Family members ofPeople who are Suffering from Mental disorders and Memory Loss Problems like Alzheimer and Autism etc.

* **VEHICLES**- **1,905** vehicles stolen only in Thane Maharastra in 2022 *Reports:- The Indian Express*[1,905 vehicles stolen in Thane in 2022 | Thane News - Times of India (indiatimes.com)](https://timesofindia.indiatimes.com/city/thane/1905-vehicles-stolen-in-thane-in-2022/articleshow/97405338.cms)  
  **PETS**- “Every day, we come across****five-six** cases** of pets abandonment.” India scored a measly 2.4 on a 10-point scale on the Pet Homelessness Index. The low rating underlines the need for a more coordinated effort to address the challenge of pet homelessness in the country. Report:- *The Indian Express*  
  **Trafficked Cases-** During the reporting period, the National Crime and Records Bureau **(NCRB)** issued its 2019 Crime in India Report. In 2019, the government reported **2,088** trafficking cases under the IPC compared with **1,830** trafficking cases in 2018 and **2,854** trafficking cases reported in 2017.

The above mentioned data is only a fraction of what the Problem is and that also in India specifically, Can you Imagine this data globally?  
Yet, to the remedy to this problem there is not a single Application or Tracking and Tracing Interface available in the Digital space.   
Maybe Its late But No longer you need to wait, TALAASH is here to stand by in your hard times and provide you an User-friendly experience and pin point precised Tracking.  
  
**B. State of art Research Gap**

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| PATENT NUMBER | ABSTRACT | DIFFERENCE |
| **US8031067B2** | A tracking system includes a global positioning system (GPS) module and a modem for mobile communications both attached to a pet (or other trackee), and a virtual fence (which includes a base station sending a signal to a certain range and a receiver attached to the pet (or other trackee) and receiving the signal sent by a base station when the receiver is within the range of the base station). A portable virtual fence system includes a signal-sending base station, and a signal-receiver worn by a to-be-fenced pet or other trackee. Advantageously, the base station is portable. The size of the virtual fence can be expanded to fit any shaped geometry using signal repeater or transceiver devices. In addition, more than one pet can be tracked using a single virtual fence and base station. Upon confirmation that a trackee has breached the fence and should be tracked, a service center can provide location information of the trackee as well directions to the trackee by voice or transmission of mapping and other imaging displays to the responsible party seeking to locate the trackee. Power management is enhanced by either turning off the power to the tracking devices (e.g., GPS or GSM or other device) after a report, or by dynamically varying the time reports are made without deactivating the tracking devices | TALAASH application uses Geo location API Technology instead of GSM technology.  The previous Patent operated on a Sender Receiver model of data Transmission whereas, TALAASH uses a Central node system and a client-host network pattern to detect dynamic changes in the location of its trackers and give out Rest API Calls only when any change has been detected via the server.  Additionally, TALAASH also provides an interface to detect and notify the users when these changes have been detected, using the TALAASH Application. |
| **US10163042B2** | An embodiment of the invention provides a method for finding missing persons by learning features for person attribute classification based on deep learning. A first component of a neural network identifies geographic locations of training images; and, a second component of the neural network identifies weather information for each of the identified geographic locations. A third component of the neural network generates image pairs from the training images. For each image pair of the image pairs, the third component of the neural network determines whether images of the image pair include the same person. The neural network generates neural network parameters with the identified geographic locations, the weather information for each of the identified geographic locations, and the determination of whether the images of the image pairs include the same person. | The previous patent aims at recognizing a person in a group by using deep learning algorithms. It emphasizes on capturing and processing data related to geographical and weather conditions and facial attributes.  In contrast, Talaash is a tracking and tracing Application primarily designed to track the missing subjects and help the users / authorities trying to locate them.  Instead of using deep learning or any other Artificial  Intelligence based algorithm, Talaash uses Geolocation and Rest call APIs  for its operations. |

**C. Detailed Description**  
**Flowcharts:-**   
  
**A. Explanation of features and**  
**the working of the application:**

**** **FLOWCHART DISPLAYING DUAL CHANNEL ACCESS:-   
  
  
  
  
  
  
  
  
  
FLOWCHART SHOWING BACKEND DATABASE STRUCTURE  
  
  
  
  
  
FLOWCHART OF GENERAL OVERVIEW OF TALAASH TRACKERS.  
  
D. Advantages of the invention: \**  
  
The pain of loosing a person, pet or a property is miserable. The application ‘TALAASH’ aims to counter this problem by acting as a bridge between the lost and the users/authorities trying to locate the lost Subject.  
**Motive**- TALAASH does not claims to completely eradicate the problem but it aims to Reduce the existing number of cases as much as possible and bestow its Services and contribution the in Fields of Women Safety, Stealth, Child Abduction, tracking wanted Criminals and Human Trafficking.

* The TALAASH app will not only work as a medium of tracking and tracing People, Pets or belongings but will also enable real time interaction between the Users and government authorities trying to find the missing/ lost object.
* This will make information sharing more convenient and tracking more easier,loss of data during data transfer can be reduced.
* Keeping the confidentiality of government reports and data in mind we introduce a dual channel Access Module were the Features and accessible data for both the civilians and the Authorities will be customized
* Access to view details of unknown profiles or authorities will be completely prohibited for general users.
* Using TAALASH Law enforcement authorities can communicate with each other in any state of the Nation to the other and vice-versa Resulting in tracking and sharing inputs of Criminals or wanted suspects who have migrated to other states and remote location to escape the Police.
* It can be a better alternative to replace the FTP and Fax system to share database and images between Police Stations with better connectivity and clarity in a fraction of minutes.

1. **Novelty of the invention**

* We implemented a dual channel Access Module were the Features and accessible data for both the civilians and the Authorities will be customized, each with their own set of authorization.
* Introducing a scope of interaction between the government and the public on subject such as missing, stealth and an interface to store missing records more efficiently among the users in the network.
* Integrated the application with the TALAASH Trackers namely the  
  1. T- Toe: For humans  
  2. T-Tame: For Pets

3. T-Tag: For Personal Belongings  
  
(For more Details refer to the Flow Chart of TAALASH Trackers)