

Team Challenge

Hackslash





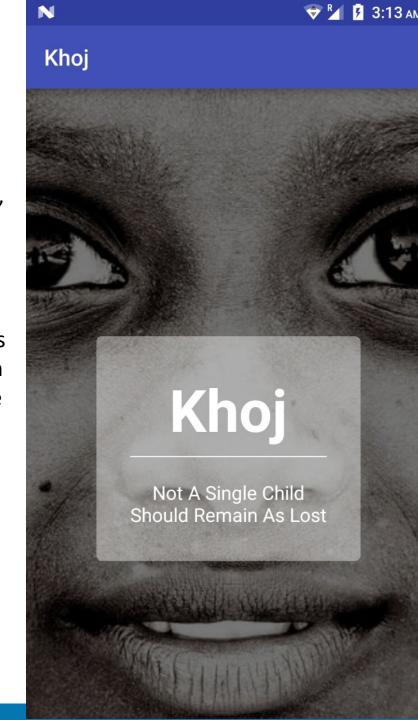
Problem Statement

- There is a lack of record keeping of children gone missing in India
- The common people are most of the times unaware of such situations and even if want to help, have no platform/portal to share First Hand Information
- There is no platform which connects the respondents to the guardians of these missing children



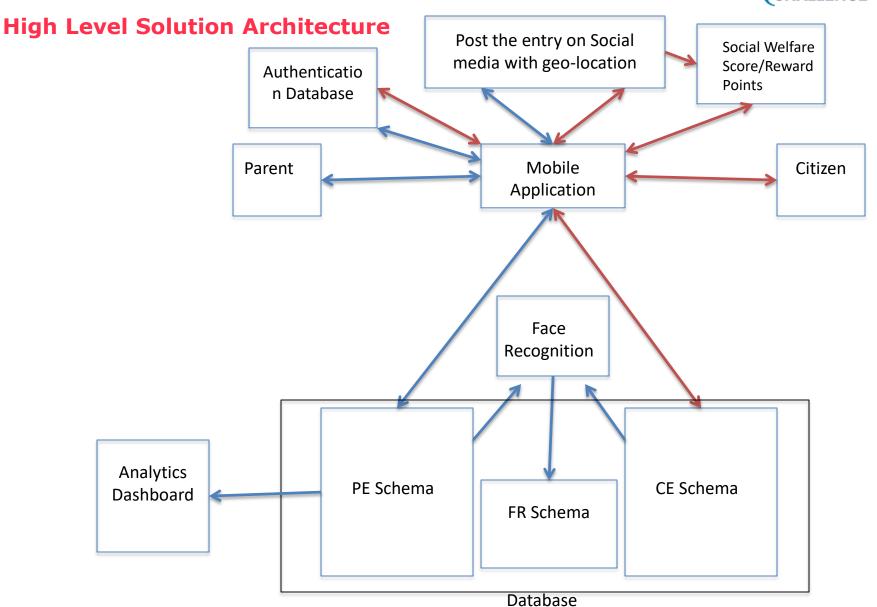
Proposed Solution – "Khoj"

- A platform which brings the concerned parties, parents or guardian in contact with the First Information Record posted/entered by a Citizen which may help in locating a lost child
- Use this captured data to generate an Analytics
 Dashboards which will show the information in
 report based format which is sharable with the
 relevant authorities
- Use advanced facial recognition to match photographs of the same individual taken at different times in order to help identify victims of Human Trafficking and other crimes



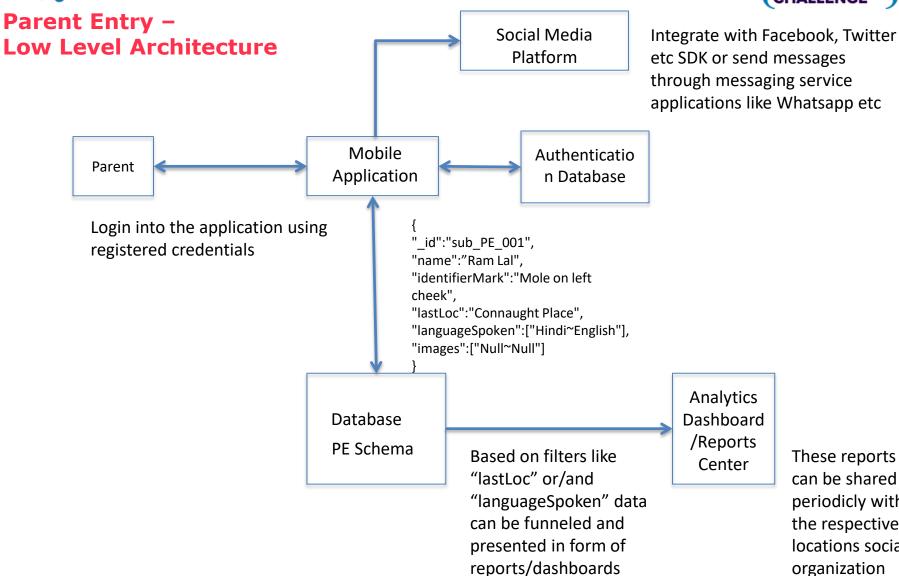








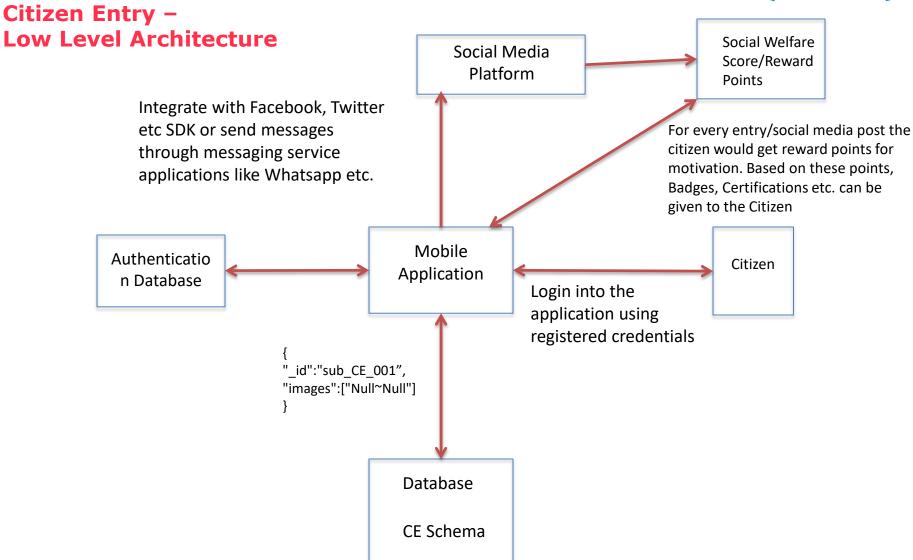




These reports can be shared periodicly with the respective locations social organization and police authorities











Key Features of the Application

- Motivational social score —
 In order to motivate citizens to report incidents, there is a social welfare score which would be updated in the application
- Analytics Dashboard with reporting functionalities –
 Weekly/monthly reports can be triggered to local authorities / social groups in nearby vicinity
- Multi-lingual support for the application









Key Features of the Application - Continued

 Inbuilt functionality to send messages through messaging service based applications like Whatsapp etc.















Future scope of the Application

- Incorporate Retina Scan functionality
- Integrate with CISCO Video Surveillance like API which is available in India for real time video surveillance
- As load on the application increase the following changes must be made:
 - Convert MongoDB from stand alone mode to Replication mode
 Replication set must have, Primary Node, Secondary Node and Arbiter Node with near real time replication happening
 - Convert PostgreSQL from standalone mode to Hot Standby mode
 There should be a Primary Node and a secondary node with near real time replication happening





Hardware Specification/Component/Tools used

- MongoDB Data storage Database
- Salesforce Report Center development
- PostgreSQL Authentication Database
- Google Analytics Analytics Dashboard development
- VM Virtual Machines with Hyper threading enabled (for higher throughput) for easy scalability
- Internet Access Notification sending and social media posts
- Android Studio Mobility application development





Why should your solution be selected?

- This solution addresses all the necessary questions posed in the problem statement
- Elegant solution to address the communication gap between reporter and guardian
- Open source software are used which minimize the cost of the solution
- The solution also spreads the relevant information using social media which in-turn means free publicity
- Solution leads to actionable data gathering and generation which can be later on used for advanced analytics dashboards and predictions



Thank You

Team Name: Hackslash