Project # 3

Police Athletics LLC

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In 2016, law enforcement reported over 600,000 missing children nationwide. At this time, there remain over 80,000 missing from the original total. While this number increases each year, it is paramount to reduce the response time for public awareness of those that have been: (1) reported missing or (2) lured into human trafficking. In addition, the rise of human trafficking burdens the system for the half- million law enforcement (LE) officers nationwide. Unfortunately, missing children and victims of human trafficking are often unreported. Many parents are discouraged by the processes from making an official report to local authorities. Resources for retrieving proper investigatory leads are thereby limited for LE to launch proactive investigations. Instead, LE personnel are isolated to a reactive investigation that may sadly lead only to a recovery of the missing/exploited victim’s remains. It is essential that families of those that have gone missing or been a victim of human trafficking should be given the advantage of online digital tools to help in locating their missing loved ones. This project will address current deficiencies in publicizing information about missing persons and then facilitate enlisting of the public’s assistance in trying to locate these children.

**MIM System Software (MIMS)**

The MIMS software will have interfaces for several user groups:

• Parents

• Law EnforcementP

• Friends

• Concerned Public

The MIMS software will expedite the creation and sharing of pertinent information between the above groups. It will control the processes and workflow that are begun by the parents needing to report a missing child. The following project description covers the user roles for the main modules of the Host System and Mobile App.

**Parents**

Information retrieved from the parents must include the following:

• Name of parents

• Parents contact information

• Email

o Phone number o Address

• Victim’s name\*

• Height, weight, color of hair & eyes, and additional marks/tattoos\*

• Victim’s Date of Birth\*

• Victim’s Phone number (If any)

• Phone Contacts

• Victim’s social media account information - It is important that various social media outlets are utilized to bring awareness to the community that is identified by the victim’s contacts. o Facebook, Instagram, email account Aforementioned information retrieved from the parents that are marked with an asterisk\* - will only be displayed on a separate public page.

**Law Enforcement**

This is access point where information uploaded from the victim’s phone contacts, and social media accounts is only available to LE personnel.

Phone Contact List

• Numbers retrieved from phone

• Frequency of numbers called

• Last known numbers

• Data provided in Excel format so can be analyzed for investigation

• Text messages also included in this format for analysis

**Friends**

A list of known friends that the family can identify for investigatory purposes to reduce those involved. Cross reference will be made of contact list with known phone numbers.

**Concerned Public**

The public is the heretofore untapped population that must be enlisted to aid the search processes. It is expected that everyone will be generally interested and sympathetic. However, it is necessary to give the public an easy to use but powerful Smartphone App that can permit submitting sighting location to MIMS, perform quick facial photo digital analysis, and send communication with MIMS. In addition, the inclusion of a facial recognition application that may be utilized, by private citizens, from uploading a photo of the victim onto the MIMS application. The identity of the victim will be compared with the provided photos of the victim’s family. A confirmation of where the photo was taken can give the family, and law enforcement investigators, proper leads to their loved ones.

**Requirement Capture MIM System Software (MIMS)**

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| --- | --- | --- | --- | --- |
| Req | Description | Priority | Unit Test | Date Completed |
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| **1** | **Log In** |  |  |  |
| **1.1** | Account creation   * Users can create new accounts at appropriate privilege level.   + Parents (can create a missing person profile, and view/update that profile and account information).   + LE (Highest privilege level) * All Accounts must have a functioning email address. * User Accounts must have unique User name. * User accounts must have unique password.   (password standard to be decided at later date)  **NOTE**  To access Concerned Public a user does not require an account. | High |  |  |
| **1.2** | Account Verification.   * System must verify each account appropriately to ensure legitimacy and for accountability.   **NOTE**  System must be able verify that **ONLY** LE officers can access information displayed in the LE section of the application. | High |  |  |
| **1.3** | Account Recovery  System must be able to recover both   * User names   + User names should be able to be recovered through a forgot user name function which allows the user to verify their identity then displays their user name. * Passwords   + Passwords should be able to recovered through a forgot Password function which the user verity’s their identity and an email with a link to reset their password is sent to the email address associated with their account. | High |  |  |
| **1.4** | When a new Missing person report is filed, the system stores the IP address of the device being used to create the report. This information is only viewable by LE. | Low |  |  |
| **1.5** | All Account information must be stored.  **NOTE**  There is no expiration date on information gathered or inactive accounts. | High |  |  |
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| **2** | Parents |  |  |  |
| **2.1** | Create missing Person  Parents must be able to create a new missing person report  Required information   * **Parents**   + Name of parents   + Parents contact information   + Email   + Phone numbers   + Address   + IP address (see req# 1.4) * **Victim**    + Victim’s name\*   + Height, weight, color of hair & eyes, and additional marks/tattoos\*   + Victim’s Date of Birth\*   + Date missing   + Last seen with   + Last Known location   + Victim’s Phone numbers (If any)   + Phone Contacts   + Victim’s social media account information - It is important that various social media outlets are utilized to bring awareness to the community that is identified by the victim’s contacts. o Facebook, Instagram, email account.   NOTE  Information retrieved from the parents that are marked with an asterisk\* - will only be displayed on a separate public page.  **NOTE**  If parents are creating a Missing report and have already filed a report with their local LE agency this information is also required.   * **LE Verified**    + Verified by LE yes or no   + Case number   + LE agency name   + LE agency telephone number. | High |  |  |
| **2.2** | Update Account  Parents must be able to update account including   * Uploading pictures of the missing person (possible limit the number) * Account management and settings * All contact information * If the reported person has been found   NOTE  If the reported person is updated as found the following information must be included.   * Location * Time of return * Physical condition * Brief description of events | Medium |  |  |
| **2.3** | Notifications  Parents should be able to subscribe to receive notification of actions and updates on their report such as   * Changes to profile information * Conformation of Updates * Notification of LE actions * Possible Sightings of missing person with time stamp and location. | Low |  |  |
| **2.4** | Security   * Parents PPI (Protected Personal Information) will not be view able by the public. * LE must have access to parents PPI. |  |  |  |
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| **3** | Law Enforcement.  This is access point where information uploaded from the victim’s phone contacts, and social media accounts is only available to LE personnel. |  |  |  |
| **3.1** | View Missing person profile   * LE should be able to view all missing person’s reports including Parent, victim, and Friend data. (see 1.4,2.1, 4.1, 5.4) * LE should be able to view and select each report. * LE should be able so search each profile use multiple search requirement. |  |  |  |
| **3.2** | Generate Report   * LE Officer should be able to export report information. * Data provided in Excel format so can be analyzed for investigation. |  |  |  |
| **3.3** | Notification  LE Officers should be able to subscribe to receive notifications from both Parents and Concerned Public involving   * New missing person reports in their area * Updates form followed reports * Possible Sightings of missing person with time stamp and location. |  |  |  |
| **3.4** | Information Upload   * LE should be able to upload useful information concerning the report that only LE Officers can receive (such as the Victims phone record, cell tower information, text messages, and social media content.) * This information must be stored and made useable for generating a report (see 3.2). | Low |  |  |
| **3.5** | Map  System should include a map function to display the following information.   * Location information regarding reported missing person should be also viewable in a displayed Map   + Last known Location   + Possible sightings   + Found location * Map should also include the option to view location information of other missing persons in that area. * Sex Offenders cross reference | Low |  |  |
| **3.6** | View LE Verified reports  LE must have the option to sort by and retrieve missing persons reports that have been verified by LE agencies.   * Display missing person name. * Date missing * Case number * LE agency Name and contact information. | Medium |  |  |
| **3.7** | Guest ADMIN (if possible) | Low |  |  |
| **3.8** | Security |  |  |  |
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| **4** | Friends |  |  |  |
| **4.1** | Parents must be able to list known friends and family contact information.  **NOTE**  Viewable by Parents and LE **ONLY**.   * Parents should be able to list contact information including   + Name   + Numbers   + Email   + Social Media * LE must be able to cross reference contacts with other collected data. |  |  |  |
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| 5 | Concerned Public |  |  |  |
| 5.1 | View Missing persons  Public should be able to view missing persons in their area.  **NOTE**  Parents PPI must be excluded from being viewed by the public. |  |  |  |
| 5.2 | Upload Photograph  CP must be able to upload Photographs of suspected missing persons. This information must include:   * Timestamp * GPS location |  |  |  |
| 5.3 | Agreement Statement  Public must be notified that any information that is uploaded to the MIMS System is open for LE use.   * Users must agree that all information submitted is voluntary. * User must agree to privacy statement. * Users must agree to Terms. |  |  |  |
| 5.4 | Notification   * LE should receive notice of possible sighting information * Parents should receive Notification if submitted photograph matches their missing person. |  |  |  |
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| 6 | General Requirements |  |  |  |
|  | Security |  |  |  |
|  | View |  |  |  |
|  |  |  |  |  |
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| 7 | Data Base |  |  |  |
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| 8 | Web |  |  |  |