**System Requirement Specifications**

Functional Requirements:-

1. Search and Filtering:
   * Provide a user-friendly interface for users to search and filter wanted persons' database.
   * Allow searching by criteria such as name, physical description, location, or associated offenses.
   * Implement advanced search capabilities to enhance accuracy and efficiency.
2. Wanted Persons Database:
   * Maintain a comprehensive and up-to-date database of wanted persons.
   * Store relevant information about wanted individuals, such as profiles, photographs, criminal history, and associated offenses.
   * Integrate real-time updates from law enforcement agencies to ensure the database's accuracy and timeliness.
3. Reporting and Tips Submission:
   * Enable users to report sightings or provide tips on wanted persons anonymously or with identification.
   * Implement a secure mechanism to receive and process user-submitted information.
   * Provide confirmation or feedback to users on the status of their tips.
4. Notifications and Alerts:
   * Send notifications or alerts to users about updates or new entries in the wanted persons database.
   * Allow users to subscribe to specific categories of wanted persons or receive alerts based on geographical proximity.
5. User Interaction and Collaboration:
   * Enable users to share information or collaborate on specific cases or wanted persons.
   * Implement a messaging or discussion feature to facilitate communication among users or with law enforcement agencies.
6. Security and Privacy:
   * Implement appropriate security measures to protect user data and ensure the privacy of sensitive information.
   * Adhere to data protection regulations and guidelines.
   * Employ encryption protocols to secure data transmission.
7. Performance and Scalability:
   * Ensure the web app can handle a significant number of simultaneous users and database queries.
   * Optimize performance to provide a responsive and efficient user experience.
   * Plan for scalability to accommodate potential growth in users and data.

Non-Functional Requirements:-

1. Secure access of confidential data (user’s data). Secure Sockets Layer can be used.
2. 24 X 7 availability.
3. Better component design to get better performance at peak time.
4. Flexible service based architecture will be highly desirable for future extension.

Tools to be used:-

1. Google Colab
2. Visual Studio Code
3. Google Chrome

Technologies:-

1. Python (version 3.8)
2. OpenCV
3. Imutils
4. DLIB libraries
5. HTML
6. CSS
7. Javascript
8. Flask Server