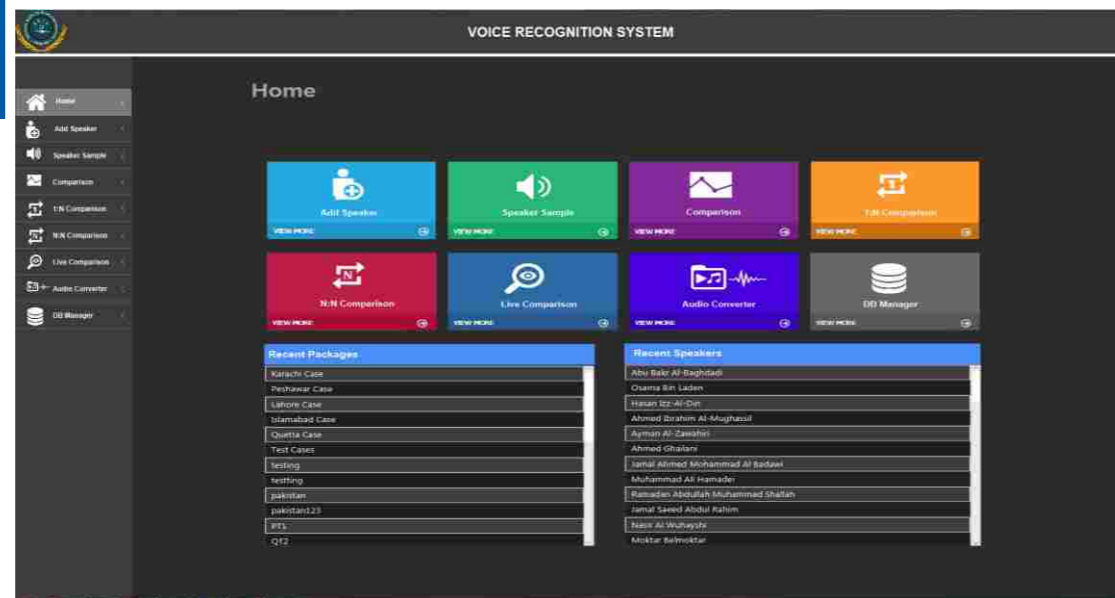## 12 Voice Recognition System

NRTC Voice Recognition is aimed to identify a person from characteristics of voice (Voice Biometric). The system can perform a N: N search of incoming voice samples per day against a target or watch list database of known or suspect voice records.

Facial Recognition

NRTC is providing accurate and convenient human face vision technology, providing strong technical support for different scenarios such as intelligent hardware interaction, surveillance, intelligence monitoring and safe city projects. Using industrial standard based on cutting edge technology and efficient deep learning algorithms.

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13 Citizen Profiling

Local information Network

Data captured by FR camera
- Face image
- Feature data of face
- Age
- Gender
- Location and time

Data captured by ANPR camera
- License plate
- Drivers' image
- Person image in front seat
- Vehicle features
- Location and time

Other IoT data
- Location and time
- Body image and features
- RFID
- Cell phone signal
- ID card reader
- Fingerprint collector

Personal Complete Archive

Personal Basic Information
- ID/Passport: G996*
- Name: Alan
- Gender: Male
- Birth: 1990
- Phone Number: 6753***
- Home address: NO.8,***

Personal Characteristics
- Clothing: light blue T-shirt
- Hari style: short hair
- Glasses: wearing
- Beard: yes
- Body type: medium build
- Hat wearing: negative

Personal recent movement

Personal tagging
- Non-local citizen
- Previous conviction person
- Frequently travel in midnight
- Frequently traffic violation
- House rent arrear
- Checkin local hotel
- Low education
- Frequently contact with terrorist
- …

Relationship Analysis
Stay in the same community
Company colleague
Stay In Same Hotel
Appear together
Come from same hometown
….

Basic Library information
- the Library of Citizen
- the Library of immigration
- the Library of Wanted criminal
- the Library of previous conviction
- Private car register database
- Motorcycle register database
- …

Personal living records
- Hotel check-in records
- Transportation booking records
- Vehicle rental records
- Vehicle violation records
- Bank transaction records
- …

Tag factory

Personal tag
Tourist, Foreigner, Citizen, immigrant…

Vehicle tag
stolen car, illegal operator car…

Organization tag
Hotel, entertainment venues, office…

Previous conviction tag
Prostitution related, drug related…

occupation tag
Shop owner, taxi driver, unemployed…