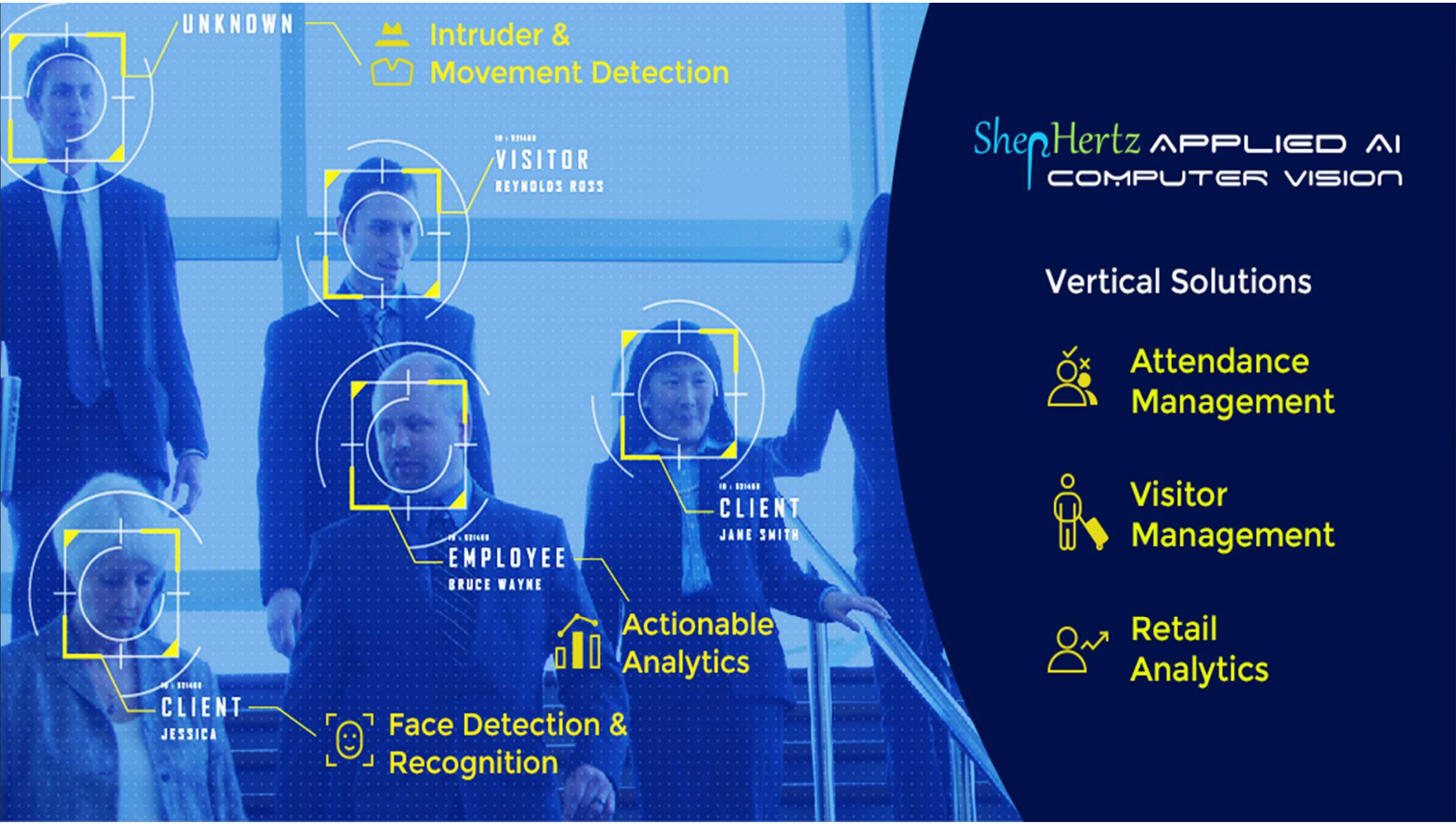
Agile & Incremental Digital Transformation

About ShepHertz

- Trusted by **75,000+** registered customers in **150** countries
- Processing **200+ Billion API Calls**
- Large Enterprise customers in BFSI, Retail, Media, Aviation, Real Estate & Gaming
- Multiple years of experience in **Managed Services** on the Cloud with various providers.
- Partnership with largest companies – IaaS, SI/IT Services, Resellers, Advisory cos.
- Providing Products & Solutions since 8+ years
- One of the largest product line in the Cloud & Platform space (PaaS, APIs, DevOps, Real-time Messaging, Actionable BigData, AI & ML)
- **Experience across IaaS Providers – AWS, MS Azure, IBM Cloud, VMWare vCloud Air, Alibaba cloud, OnPremise etc.**
- Servers in 9 countries



ShepHertz APPLIED AI
COMPUTER VISION

Vertical Solutions

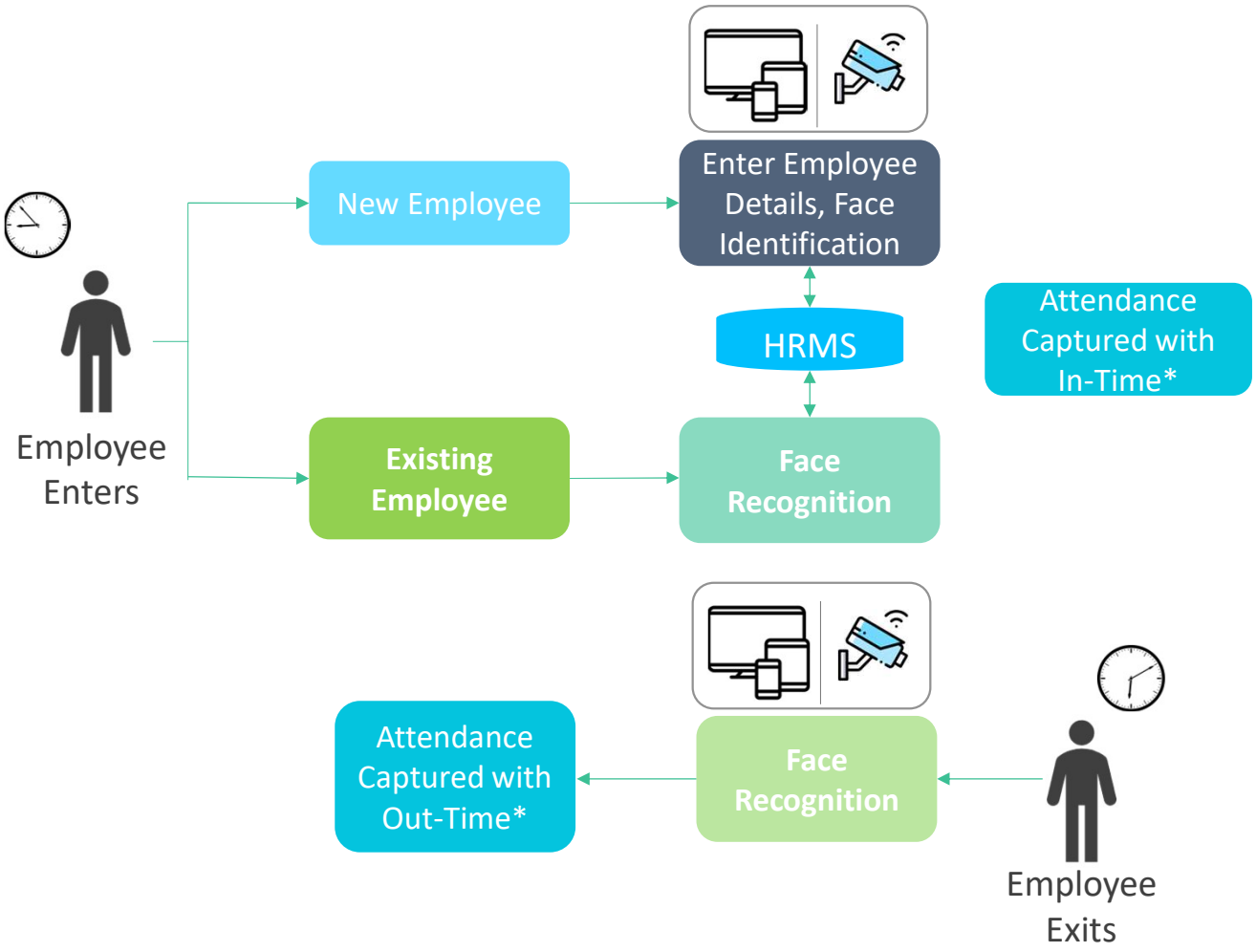
- Attendance Management
- Visitor Management
- Retail Analytics

Attendance Management Solution

Conventional vs New-age Attendance Management

Conventional	New-age
➢ Long Queues & Time taken per person to mark attendance ➢ Inconvenience ➢ No intruder detection mechanism ➢ No full-proof tracking of employees' login hours	✓ **It enhances productivity** – Complete track of login time, no. & duration of breaks taken per employee ✓ **Minimize Fake Visits –** Geotagging coupled with face recognition weeds out fake visits by field sales force. ✓ **Gauge Sentiments –** Detect employee's sentiment & proactively counsel him ✓ **Intruder Detection & Restrictive Access** ✓ **Ease of Use** ✓ **Department wise reports, regular employees or 3rd-party (contractor/vendor) employees.** ✓ **Minimize Spends & thus better resource utilization –** HRs/Payroll teams and team leaders can focus on other important tasks.

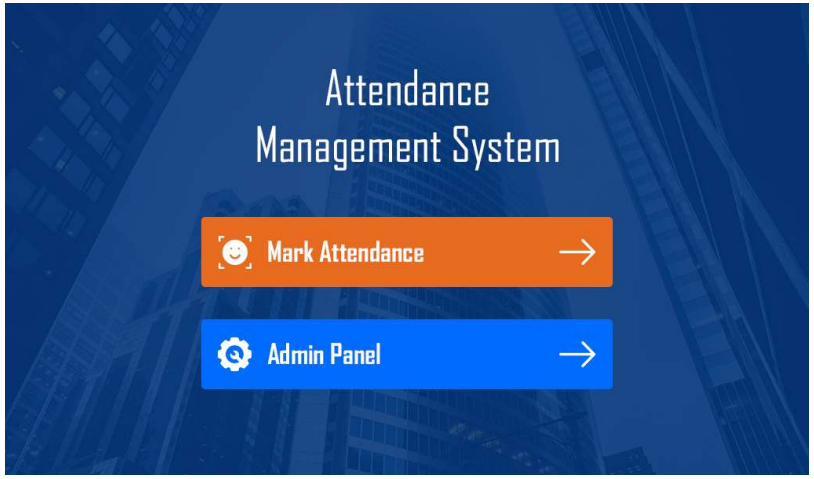
Employee Attendance via Face Recognition



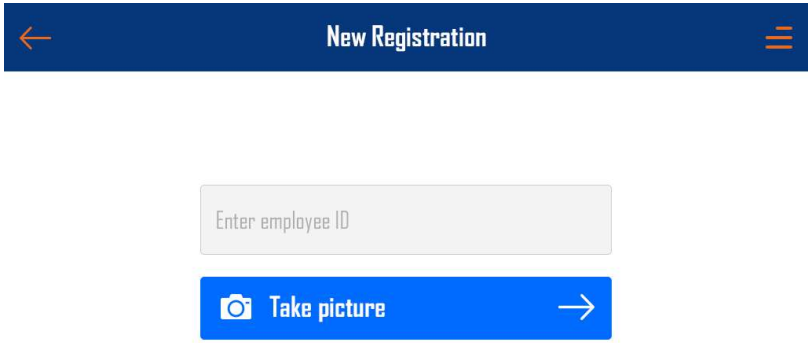
Facial Attendance Solution- Features

Sr. No	Feature	Remarks
1	First In-Out Time	First In and out time is captured for all employees. First capture is the in-time and last capture is the out-time for the day.
2	One time registration/de-registration	System can register and de-register employees centrally upon their joining and exit. Registration/De-registration is a one time activity.
3	Additional employees details for new registration process	System is able to extract additional details of the Newly registered employees from HRMS (if integrated).
4	Emp Code as primary key	System maps captured Face data with the employee code which is unique to each employee. Employee code can be used as the unique identifier for mapping all attendance related data.
5	Geotagging	The system can capture office location along with GPS details of the employees from where he/she is marking the attendance.
6	Device Control	System does not allow attendance to be marked from any unauthorized device other than the ones which are registered with the system.
7	Master Rights	The system provides admin access only to selected officials for employee registration/deregistration. The system also provides reports about list of employees having admin rights along with list of changes done by individual admins.
8	Hardware compatibility	The system is compatible with Android/iOS Mobiles & Tablets.
9	Dashboard/Reports	The system provides a Dashboard view with details such as No. of employees joined/exited this month, daily total no. of punch in/punch out etc. The system is also capable of triggering alerts e.g. in case an employee is absent for more than 5 days the alert can be sent to HR and respective manager
10	Old data	The existing attendance data can be migrated and the new system can provide reports based on it.

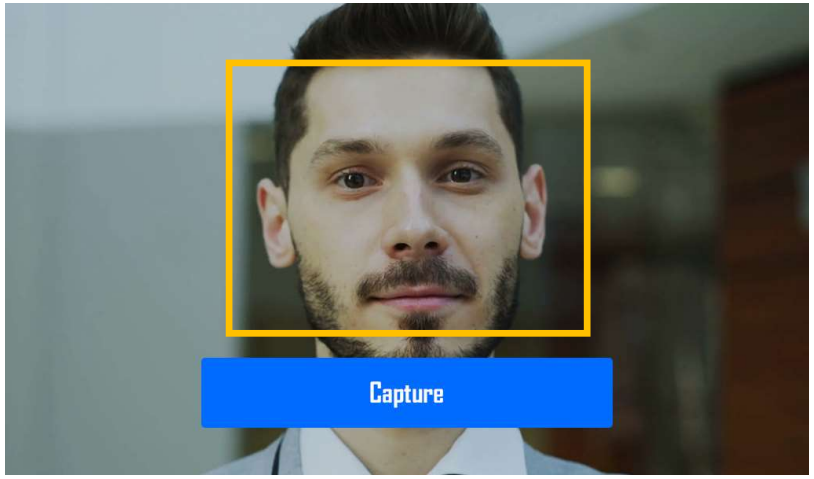
Home Screen



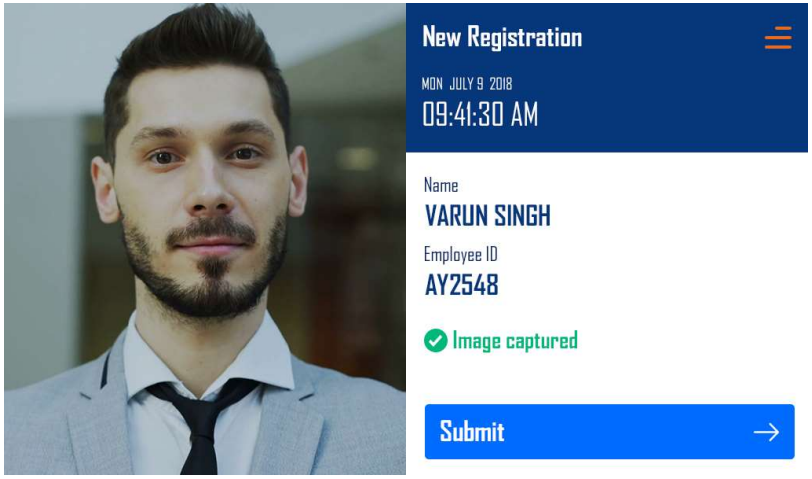
New Registration



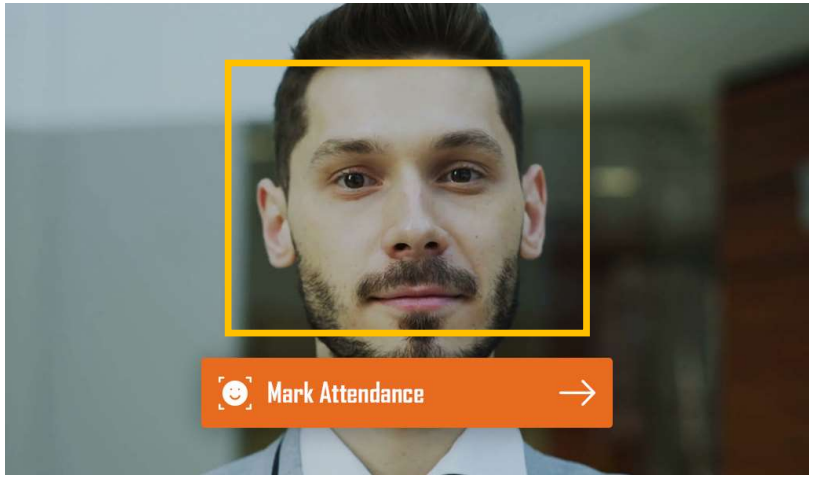
Capture Image



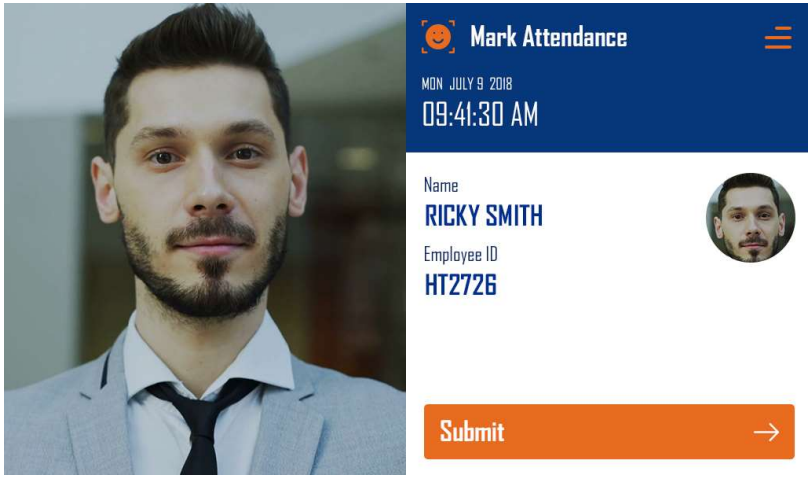
Submit Details



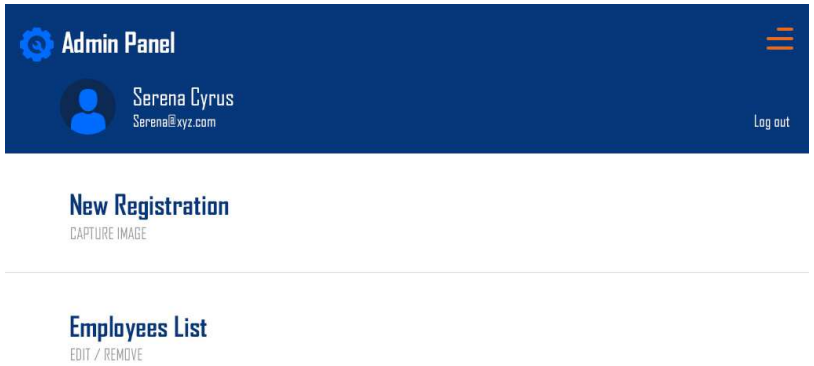
Mark Attendance



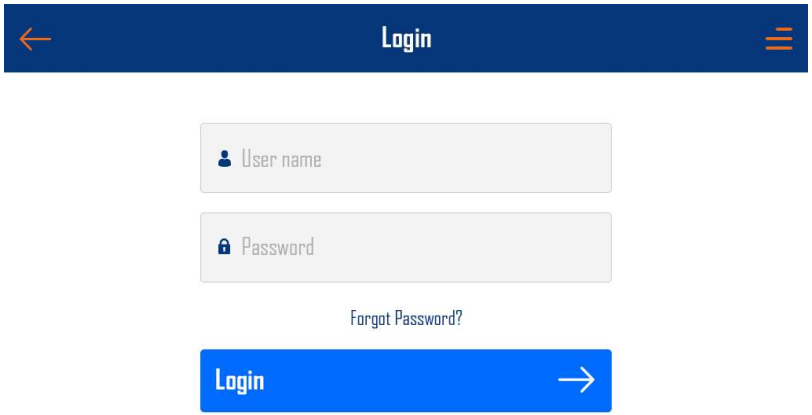
Submit Attendance



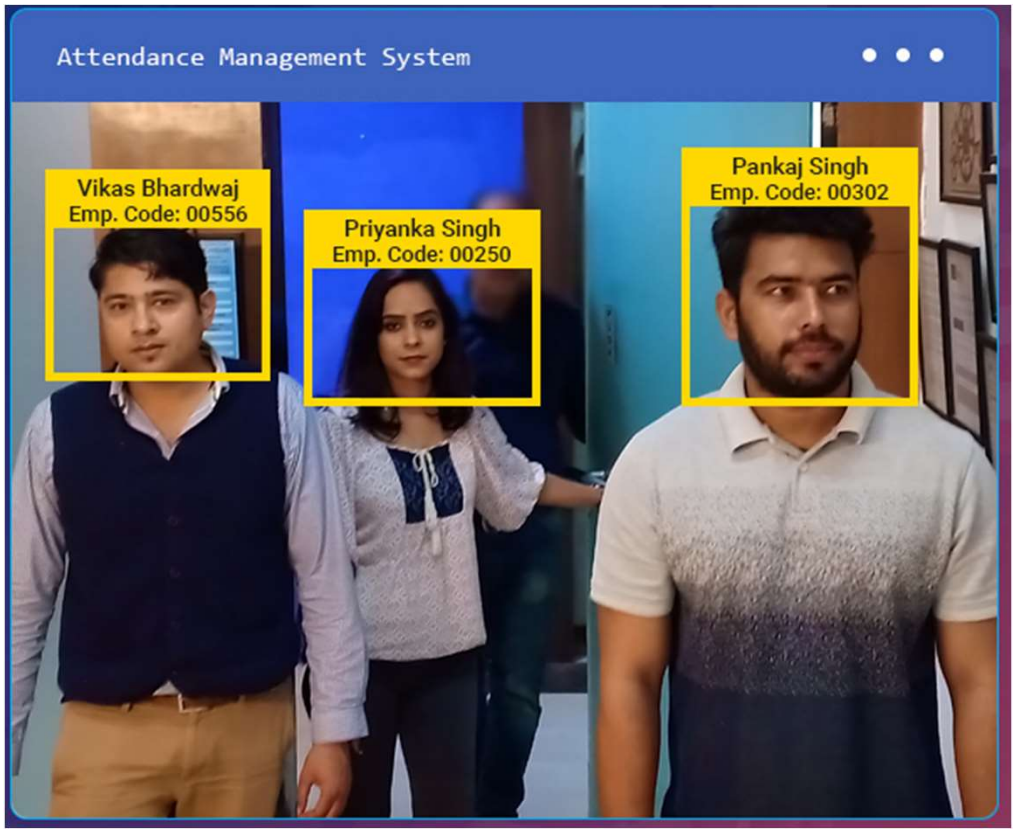
Admin Panel



Admin Login



Attendance using Commodity/Surveillance Camera



Group attendance – Contact less

- ShepHertz Face Recognition not only works on Android/iOS Apps but also works on standard Commodity / Surveillance cameras.
- Can analyze Images as well as video stream
- Can interact with automation doors or any other hardware through IoT integration
- Can be deployed in remote locations.

Analytics

- Total Punch-in/Punch-out – Daily/Monthly
- Total/Average Working hours
- No. of employees joined/exited in a month
- Time wise - Early Birds, Late Comers, On-Time

Other Indicative Use cases using Face Recognition

- Detect Intruders
  - Unknown people
  - Identifying users who are in a Secured/Restricted Area
  - Detecting suspicious characters
  - People carrying objectionable/dangerous objects e.g. Knife
  - Wearing helmet or covering face e.g. Use case : ATM
  - Not wearing uniform : Use case Manufacturing
- Trigger Notifications/Alerts and Alarms to security
- Automatic locking of Doors in case the intruder is identified – Usecase: IoT
- Analytics
- Detect unusable behavior/Anomaly/Outlier detection : Our of the normal movements.

Omni-Channel Digitization Platform

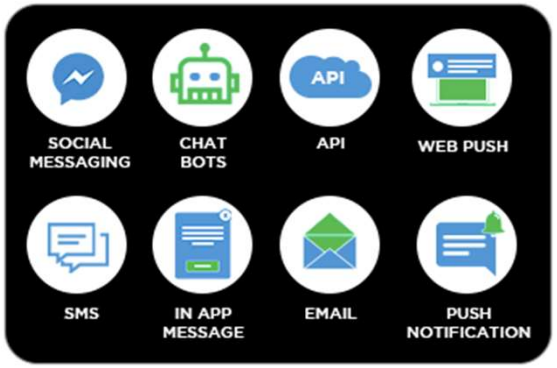
Verticalized Point Solutions
(Sales Automation, Geo- Attendance etc.)

Build & deploy B2C, B2B, B2Partner, B2Employee Omni- Channel Apps

Omni-Channel Single View of Customer/Asset/Employee

AI & ML

Unified Notifications



Visualization & Reporting

ShepHertz Digital Hub

Actionable analytics & automation

App42 BDC = Bigdata Connectors

Big Data

App Behavior | Transactional | Unstructured | Real Time | Offline | Legacy Apps | External Apps

Shep Hertz

AI SERVICES

AI Use cases

BOT
- Dialog – FAQ based
- Intelligent BOT - Free flowing Text/Voice interaction
- Support for Live Chat – Seamless Handover from Bot to live agent

Sentiment Analysis
- Social Media – Twitter, FB etc.
- Chat
- Competition & influencer analysis
- Metrics

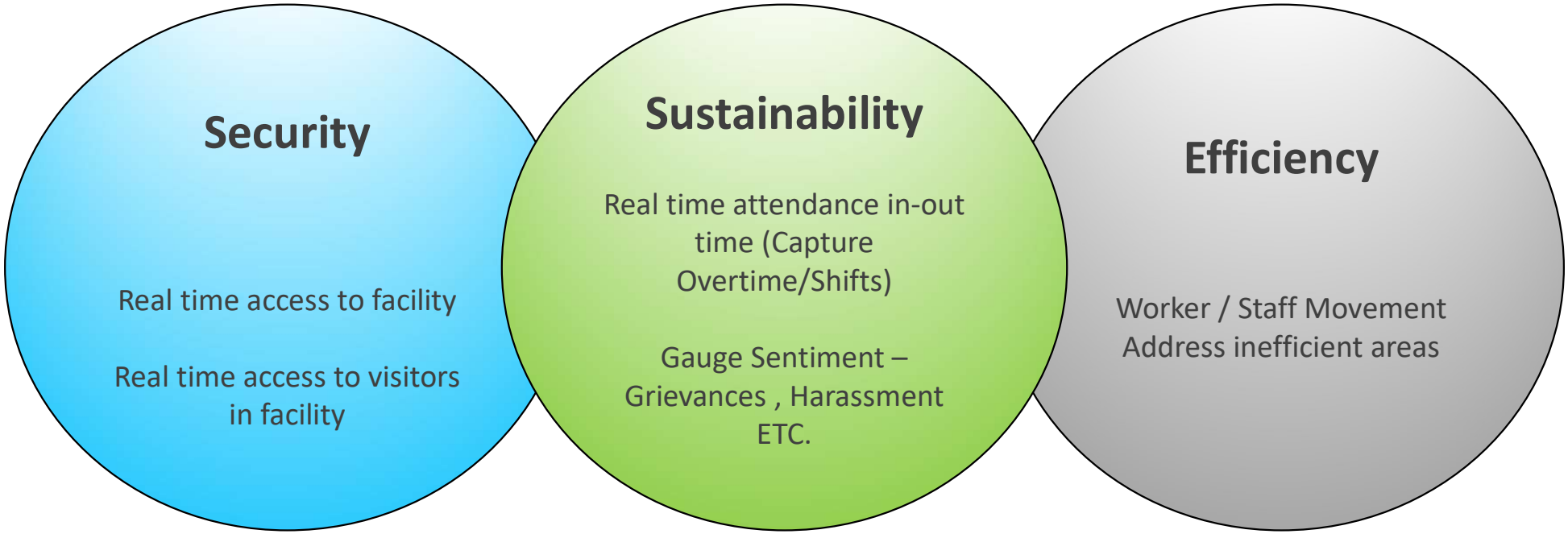
Anomaly detection
- Outlier detection

Face Recognition
- Visitor Management
- Employee attendance
- Gesture recognition
- Intruder detection

Recommendation
- User similarity
- Item similarity
- Content tagging
- Clustering

Prediction Analytics
- Propensity to buy/churn
- Customer Life time value
- Customer Segmentation
- Up and Cross selling
- Lead Scoring
- Improved content distribution
- Analyzing optimal campaign channels , content & time
- Document Automation
- Image Recognition

Classification
- Hyper Personalization


Security
Real time access to facility
Real time access to visitors in facility
Sustainability
Real time attendance in-out time (Capture Overtime/Shifts)
Gauge Sentiment – Grievances , Harassment ETC.
Efficiency
Worker / Staff Movement
Address inefficient areas

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Thankyou