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Palm Vein Biometrics

Contactless, Hygienic, Accurate.

Accuracy Comparison

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	Palm Vein	Iris	Back Hand Vein	Fingerprint	Hand Geometry	Facial	Signature	Voice
FRR	0.01%	0.01%	0.1%	0.1%	0.8%	2.6%	1.0%	3.0%
FAR	0.00008%	0.0001%	0.0001%	0.001%	0.07%	1.3%	1.0%	3.0%

False Rejection Rate (FRR): Rejection Rate for Authorized Personnel
Palm Vein   ==>> **0.01%** = 1 failure in **10,000** attempts
Fingerprint ==>>   **0.1%** = 1 failure in **1,000** attempts

False Acceptance Rate (FAR): Acceptance Rate for Unauthorized Personnel
Palm Vein   ==>> **0.00008%** = 1 failure in **1,250,000** attempts
Fingerprint ==>>   **0.001%** = 1 failure in **100,000** attempts

Other Comparison

Type	Characteristics	Weaknesses	Accuracy	Sensor Type	Cost
Voice	Suitable for voice activation system.	Affected by noise, health conditions, etc.	Low	Contactless	Low
Face	Remote authentication, no special operation.	Sensitive to lighting/posture, cannot recognize with eyeglasses, facial hair, cosmetics, twins, etc.	Low	Contactless	Low
Signature	Natural Operation.	Difficult for even the same person to sign the same way all the time.	Low	Contact	Low
Fingerprint	Small Sensor.	Affected by nature of skin, too dry/wet skin, abrasion, dirt on sensor surface, etc.	High	Contact	Low
Iris	High accuracy.	Affected by size of eyes, and reflection of eyeglasses.	Very High	Contactless	High
Palm Vein	No forgery, forget.	Sensitive to direct rays of the sun and other strong lightings.	Very High	Contactless	Low

Features Highlights

Features:
- **Robust Performance**
- **100% Enrolment**
- **Hygienic Handling**
- **Extremely High Accuracy**
- **Stand-alone or network**
- **Embedded Web Server**
- **Web Reports / Admin**
- **WiFi Networking***
- **Battery Back-up***
- **Voice Prompts***
- **SMS Alerts***
- **Export to HR/Payroll***
- **Integration API***

Applications

Ready Made:
- Time Attendance
- Access Control

Customizations:
- Subsidy Management
- Staff Compliance System
- Disciplinary Management
- Visitor Management
- Loyalty/Rewards Programs

Others:
Any kind of biometric identification requirements.

Web Reporting –
Time Attendance / Access Control
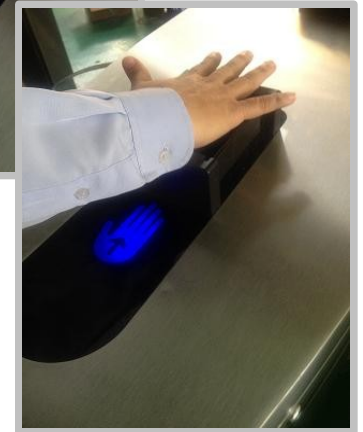
Customized Project: Nestle
Canteen Subsidy Management System

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Features:
- Biometric Identification
- Once-A-Day Meal Subsidy
- Realtime Authentication Display
- Last Subsidy Date/Time Display
- Staff Profiling
- Daily and Monthly Reports
- Summary and Detail Reports
  (Individual and Department)

Customized Project: Panasonic Solar Human Entrance Barrier Gate

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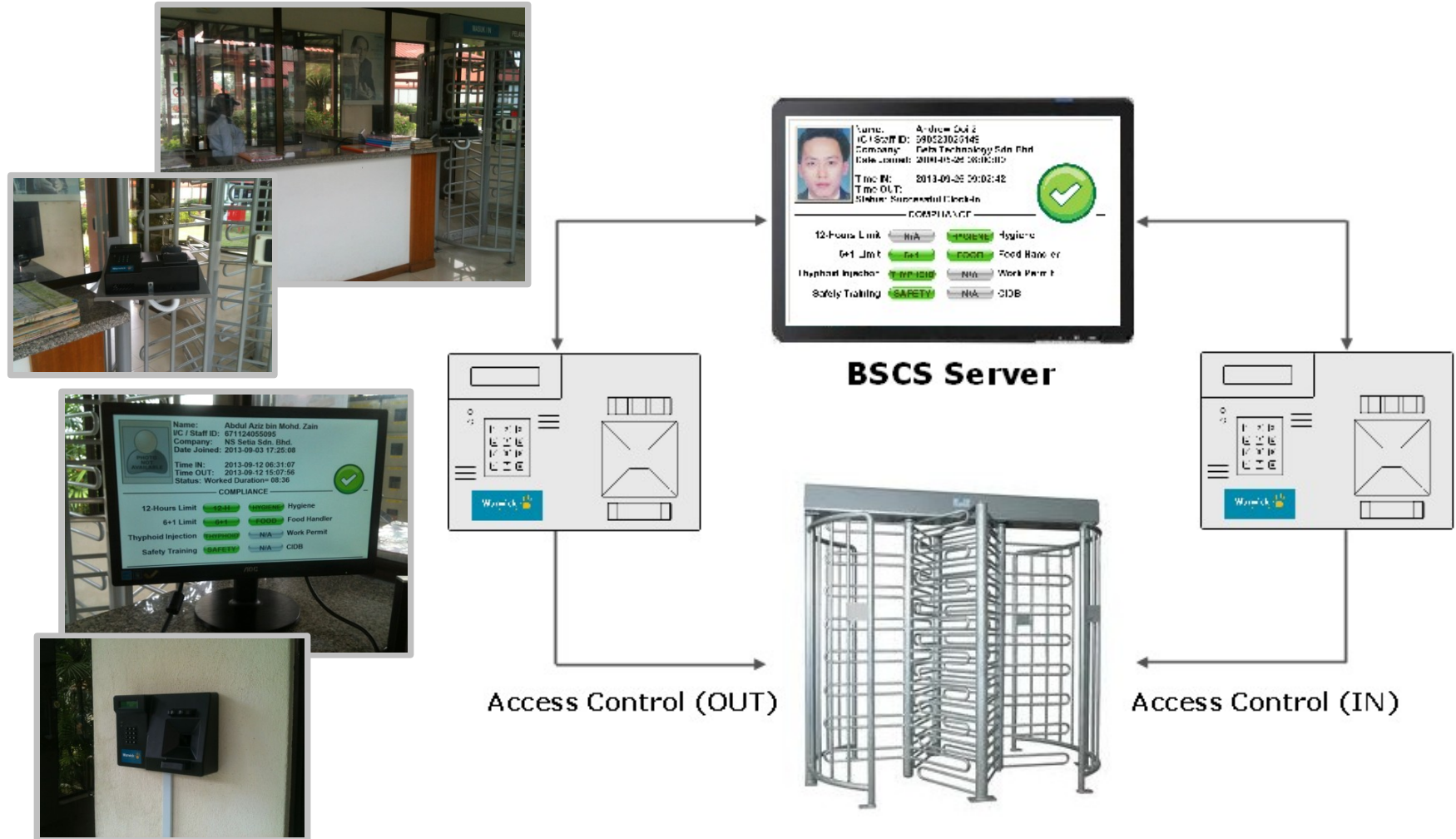

2-layers Security
   ==>> Staff Card + Staff's Palm

Customized Project: Nestle
Biometric Staff Compliance System

BSCS Server

Access Control (OUT)

Access Control (IN)

BIO-KIOSK : Nestle Annual Dinner Biometric Registration System

Some of Our Users

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Thank You