

AADHAAR ENABLED BIOMETRIC ATTENDANCE SYSTEM (AEBAS)

An Introduction

Introduction



- Biometric Attendance System based on Aadhaar Authentication
- Attendance System with real time monitoring
- Comprehensive MIS
- Lightweight System- Does not requires any special hardware or algorithm
- Works on multiple platforms (Windows, Android, etc.) and form factors(Desktop and Tablets, etc.)
- Robust System- Self sustained for small power cuts
- Time taken to Record Attendance:
 - 1-2 Seconds on WiFi
 - 8-11 Seconds on GPRS (SIM)



AEBAS: Features

- Simple to Deploy : No hardware locking
 - Any Tablet/PC on any OS
 - Fingerprint/Iris Scanner Device
 - Ready to use software (installs within seconds)
 - Connectivity
 - Package Box
- Affordable (Total cost per device is less than Rs.10,000)
- Portable and easily re-locatable
- Fallback options for internet
 - Works on WiFi as well as GPRS, WiFi being the primary. In case of WiFi failure the system automatically switches to GPRS mode.
 - · Remembers multiple WiFis.
- Multiple Access Points: Employee marks attendance from any location/Office. A person working in State Office can mark his attendance in a District/Block Office
- Online Self Registration requiring only Aadhaar, a scanned photograph and a working mobile number.
- SMS Alerts to employees in case of absence, late coming, early leaving or not closing their attendance.

How it Works







1. Attendance Request originated from the system to a centralized attendance server with fingerprint, User ID.

- 2. Aadhaar mapped against the ID and fingerprint, sent to the Aadhaar Authentication Server
- 3. Authentication response received on the centralized attendance server. On valid authentication, attendance record stored on the server.
- 4. Client Response from the attendance server (Success/Failed)



Price Comparison Of Various Biometric Based Attendance Systems



- Cost of Local Area Network (LAN) based Attendance management System- Rs.16,500/- or more.
- Cost of GPRS (SIM) based Attendance management system-Around Rs. 20,000/-
- Both types are proprietary in terms of Hardware and Software, thus creates dependency on the vendor
- Cost of AEBAS
 - Rs.8,000- Rs.10,000 for tablet version
 - Rs.3,000 for desktop computer version (excluding PC)
 - Can be installed on any android tablet.
 - Can be used with a number of biometric scanners (both finger and iris)
 - Thus no vendor dependency
 - Software is freely available

Advantages of AEBAS



- Low cost easily deployable
- Will ensure attendance recording in remote areas with mobile connectivity
- No attendance registers required
- No cards or other tokens required
- Comprehensive MIS
- Employee cannot
 - Mark attendance in back-date
 - Mark someone else's attendance
- Can be used for live test of our pensioners
- Tracks time of entry, exit hence MIS can track hours spent in office.
- The whole AEBAS software is highly scalable.

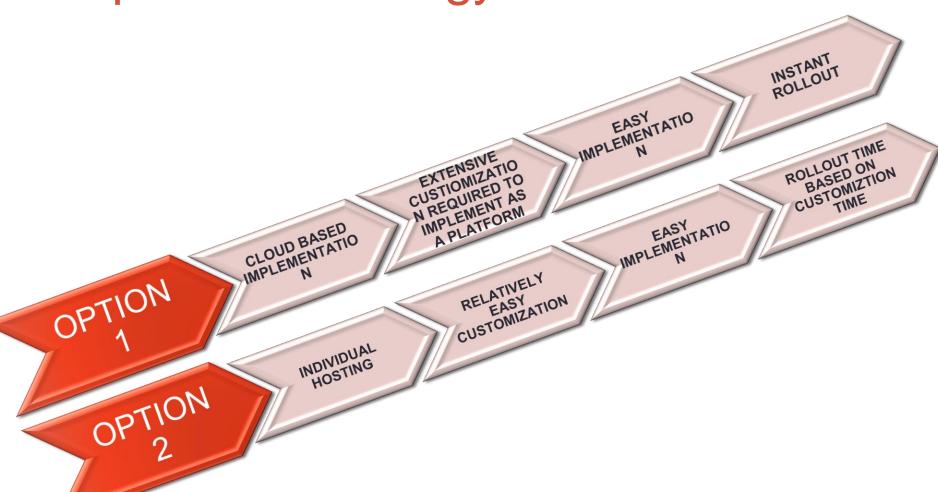
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Constraints

- Dependency on Availability of Connectivity
- Users should have Aadhaar number

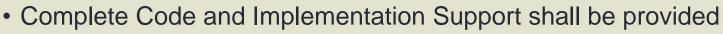
Replication Strategy











 System is available as a package ready to be deployed with comprehensive MIS

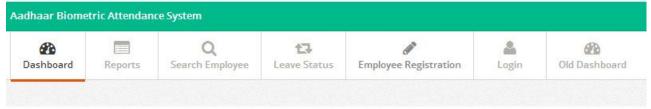
- Support team needed at implementation point
- Support team may consist of Project Manager, DB Expert, Network cum System Administrator, Data Entry Operators cum Helpdesk Personnel

- SMS Gateway and AUA services need to be arranged.
- Recipient Team should visit and interact with UID Team at Ranchi for understanding features and implementation approach

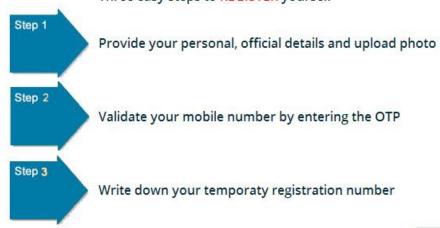
AEBAS Services- Online Registration

Self Online Registration



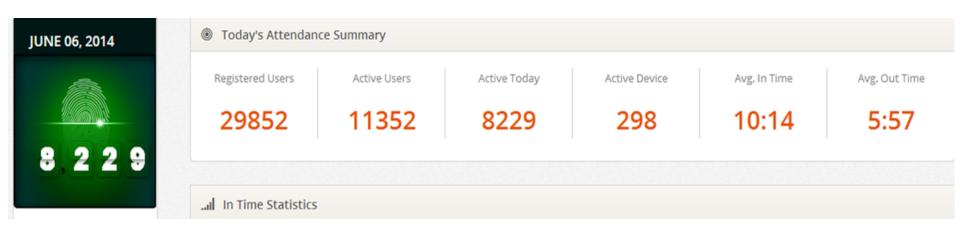


Three easy steps to **REGISTER** yourself



AEBAS Services- Live MIS Dashboard





AEBAS Services - Live MIS Dashboard





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AEBAS Services – Live Terminal Status

- Features
 - Live Monitoring of Client System Health from centralized location

Terminals Details



AEBAS Services - Comprehensive MIS



MIS Features

- Unit Wise Attendance MIS (Example Secretariat Offices, District Offices etc)
- Office/ Department wise Attendance MIS (Example IT Department)
- Individual Attendance MIS
- Department wise real time attendance tracking.
- Managers can create their own Employee groups or monitoring groups across locations and departments based on privilege.
- Search facility to easily get the attendance of an employee just by name.
- Advance reporting section based on various configurable parameters.
- Provision for recording various leaves against employees.
- Can be easily linked to salary calculation of employees

AEBAS Jharkhand Success Story



- Successfully implemented in the State of Jharkhand
- Currently around 9000 employees are marking their attendances on daily basis.
- All State level offices, District Headquarters are covered by AEBAS.
- Rollout till Block level offices within this month.
- Pilot in schools, PHCs have been done.
- Live AEBAS MIS at http://attendance.jharkhand.gov.in



THANK YOU