

Bihar Skill Development Mission

Standard Operating Procedures for AEBAS

(Aadhar Enabled Biometric Attendance System)

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1. Introduction

It has been decided to use an Aadhar enabled biometric attendance system (AEBAS) at all skill development centers (SDCs) empaneled with the Bihar Skill development mission (BSDM). The system will be installed at all the SDCs.

The AEBAS is a real time attendance monitoring system making use of Aadhar number generated by UIDAI which capture either fingerprint or Iris.

The proposed system shall capture the fingerprint at the SDCs for attendance of Learners or Learning facilitators to monitor their attendance in real time.

The AEBAS is making use of Aadhar to monitor Learner's/ Learning Facilitator's attendances across various skill development centers under BSDM.

Aadhaar Enabled Biometric Attendance System (AEBAS) is a time and attendance marking system based on biometric technology linked with the verification of Aadhaar. The system is particularly aimed at recording Learner's/ Learner Facilitator's attendance in various SDCs empaneled under BSDM.

2. Purpose

Aadhar Enabled Biometric Attendance System (AEBAS) formulated by the Government of India is a real time monitoring systment that helps in improving the punctuality and productivity of government employees at large. The Aadhaar number generated by UIDAI (Unique Identification Authority of India) is utilized in the process of authentication carried out by AEBAS. Cloud-based BAS helps in monitoring the attendance of the employees in real-time.

In the BSDM scenario, thousands of learners and learning facilitators are involved across various skill development centres under BSDM. Tracking the attendance of these learners and learning facilitators is an arduous task. However, the presence of them on time is critical for the success of various activities like attendance tracking, monitoring of SDCs and its impacts on training programme of the BSDM.

As of now the attendance of learners and learning facilitators was recorded with simple biometric device which was not Aadhar enabled or manually. Due to this, the SDCs can temper attendance report which later impacts on skill training quality and obviously the main moto of skill development programs. The monitoring and maintaining the entire database were proving to be difficult just not because of real-time monitoring system in skill training programs. There was also the question of reliability as records were vulnerable to tampering or there could be an entry of faulty data.

Therefore, Aadhar enabled biometric attendance system is now going to introduce to overcome the above-mentioned shortcomings. This has been proved to be the best real-time solution for marking reliable and accurate information.

As sharing of attendance data through various levels was cumbersome, the BSDM has come up with an idea to make use of the Aadhar enabled biometric attendance system for monitoring the real-time attendance through a centralized system.

3. Scope and advantages of AEBAS

There is no doubt that the deployment of biometric authentication solution is on a rise than ever before.

It wouldn't be wrong to say that with time, people are preferring their own body to be the passwords for securing sensitive information rather than cracking head on textual passwords with mandates like special characters, numbers, no special characters, person, places etc. To keep a check on authenticating access to confidential data, biometric devices are fastly making a way into Education, electronics, BFSI, defence, home security, criminal identification, transport & logistics, and most importantly in bank sectors. It has also been brought to use by public and private offices in the form of time and attendance systems.

3.1. Advantages of AEBAS:

- a. Supports various platforms
- b. Supports centralized functions
- c. Help in real-time tracking of attendance
- d. Time saving while making the attendance
- e. Ease of sending real time notifications
- f. Help in accurately track to both login and logout to know the exact working time

4. Executive Summary

It has been decided by the Bihar Skill Development Mission under Labour Resources department, GoB to implement common Aadhaar Enabled Biometric Attendance System (AEBAS). The proposed system would enable a Learner Facilitator/ Learners/ Centre Coordinator/ Centre Owner to register attendance by presenting his/her fingerprint which will be authenticated online by doing one to one match with the bio-metric stored in the UIDAI data base against the Concern's Aadhaar number.

Labour resources department, GoB with the help of IT Department, GoB intends to install this Biometric Attendance System across all the empanelled Skill Development Centre (SDC) under Bihar Skill development Mission (BSDM). The empanelled SDC shall use the unique biometric attendance environment, hosted at the State Data Centre, department of IT.

5. About Aadhar Based Biometric Attendance System (AEBAS)

Aadhaar based biometric Authentication for the purpose of attendance would ensure that the attendance of all Learners/ Learner Facilitators/ Centre Coordinators/ Centre Owners of empanelled SDCs will be visible in real time on the Unique attendance environment ensuring transparency and accountability to bring efficiency.

AEBAS is an Online System where authentication of fingerprints is done online, thus presence of Internet Connectivity is mandatory requirement wherever devices are installed. Internet Connectivity from all service providers is supported in AEBAS.

6. Requirements

6.1. Non-technical requirements

- 1. Identification of Nodal Officer within Department who is having Aadhaar number.
- 2. Web Portal for SDC registration as well as identification of Nodal officer.
- 3. Aadhaar Card for every Learners/ Learning Facilitator Registration.

6.2. Technical Requirements

- 1. AEBAS Compatible Bio-Metric RD Devices.
- Identification of Windows xxxxx based Personal Computer with dot net framework 3.5 and above.
- 3. Internet Connectivity with enough bandwidth for RD Devices.
- 4. Better response time can be achieved with high speed internet connectivity.

7. AEBAS Architecture

7.1. RD Device Registration

This integration will enable UADAI based authentication for the KYP & Domain Skilling candidates.

Process Flow



Biometric device

- SDC should have recommended any UIDAI approved biometric capturing device(s); (We may take Mantra MFS 100 & eNBioScan biometric device as UIDAI approved device).
- Biometric capturing devices should be in working condition.
- It is also recommended that SDCs should also have a backup device in case of any malfunction or failure of the registered device to avoid loss to the candidates learning.

RD registration

SDC will register their available device to RD services through various services providers (easily available online) For Mantra device recommended service provides is **SERVICO** from Mantra

(Note: We may take SERVICO as device registration provider for Mantra MFS 100 device)

Step1: Availability of biometric device

SDC need to check the working condition of biometric device in case of any technical issue or non-availability of biometric device purchase new device recommend Mantra MFS 100 device

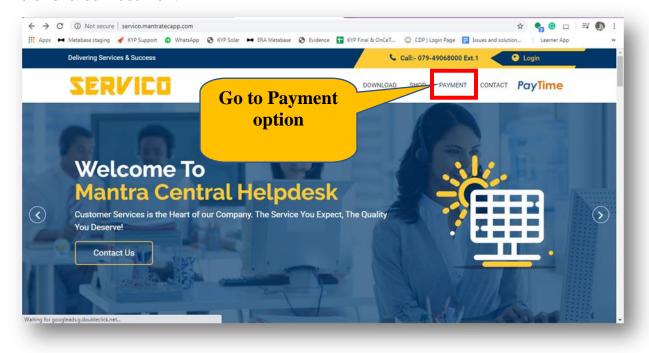
Step2: RD services registration

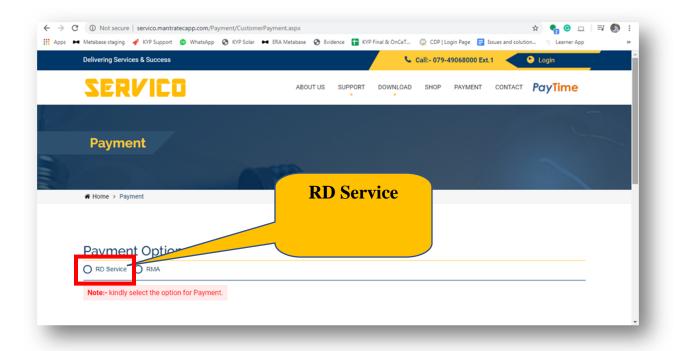
SDC have to register biometric devices to RD services. There are multiple RD service provides available online;

For Mantra device recommended service provides is **SERVICO** from Mantra Link: <u>http://servico.mantratecapp.com/Payment/CustomerPayment.aspx</u>

Video link for RD registration:

https://www.youtube.com/watch?v=UmNI4c4UmJw&t=39s Refer shared Document:

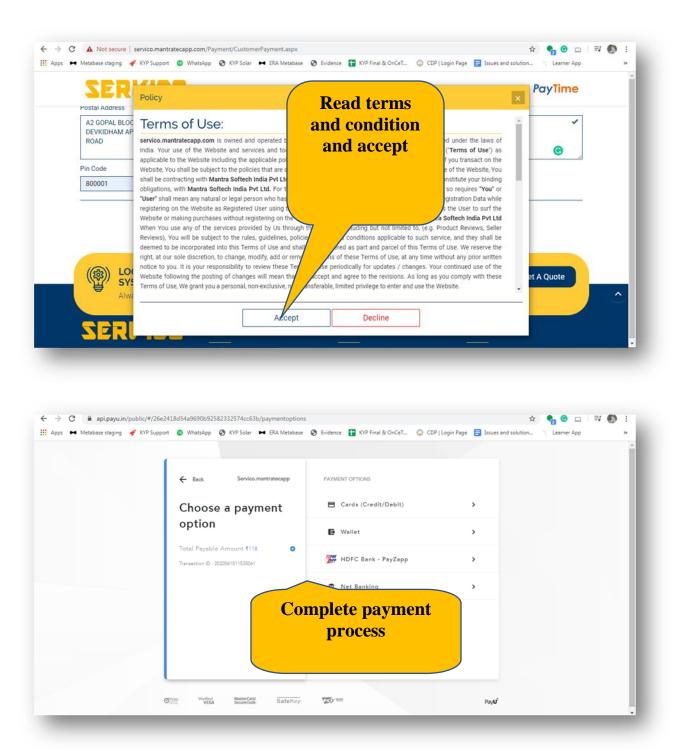




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Note: Sometimes after completing RD service registration process it take 24 to 48 hours to get activated

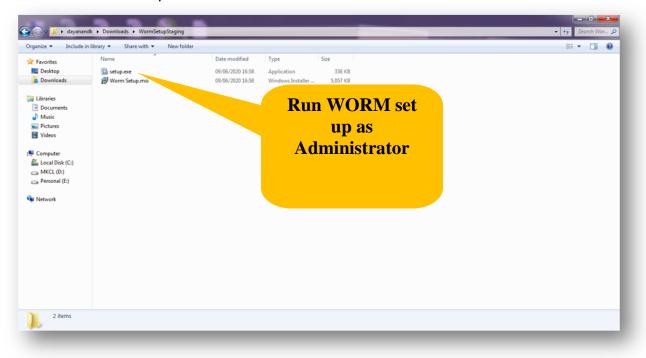
Step3: Check functionality of RD services

SDC can test the RD service working condition with the help of below link (for Mantra device)

Link: <u>https://rdtest.aadhaardevice.com/</u> Video: <u>https://www.youtube.com/watch?v=mBCdxRrckH0</u>

7.2. Upload biometric device data through WORM on SOLAR

You can download WORM from SDC SOLAR login Go to SOLAR login >> Downloads >> WORM software Zip file will download, extract the file and follow the process given below,



Run downloaded setup as Administrator

Complete the installation process

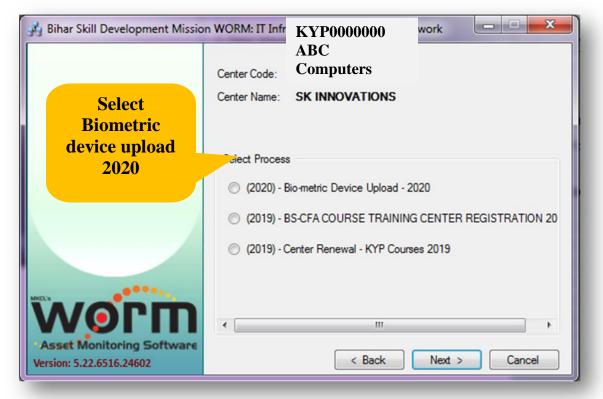
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Run WORM server as Administrator available on desktop



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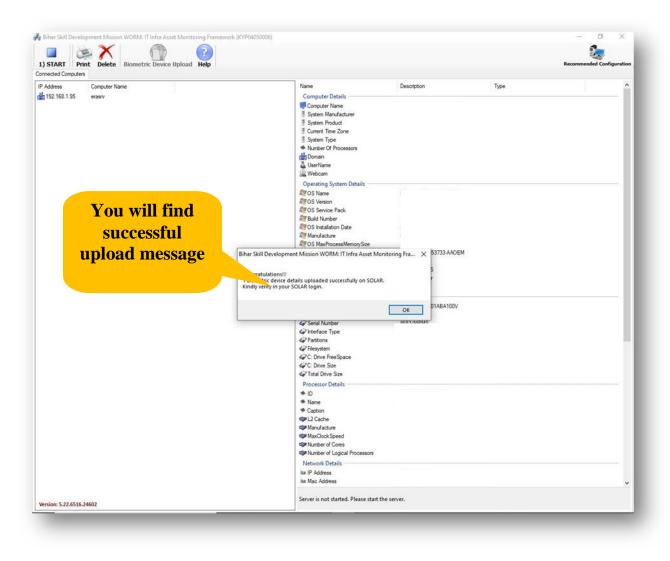


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Note: Only RD service registered biometric device will get upload on WORM, please check RD service registration status before processing for Biometric device upload



Check Device data uploaded status in SOLAR login Path: Report > Report > Ad hoc > <u>Biometric Device Registration Report</u>

Login to SOLAR Portal using Center code and Password

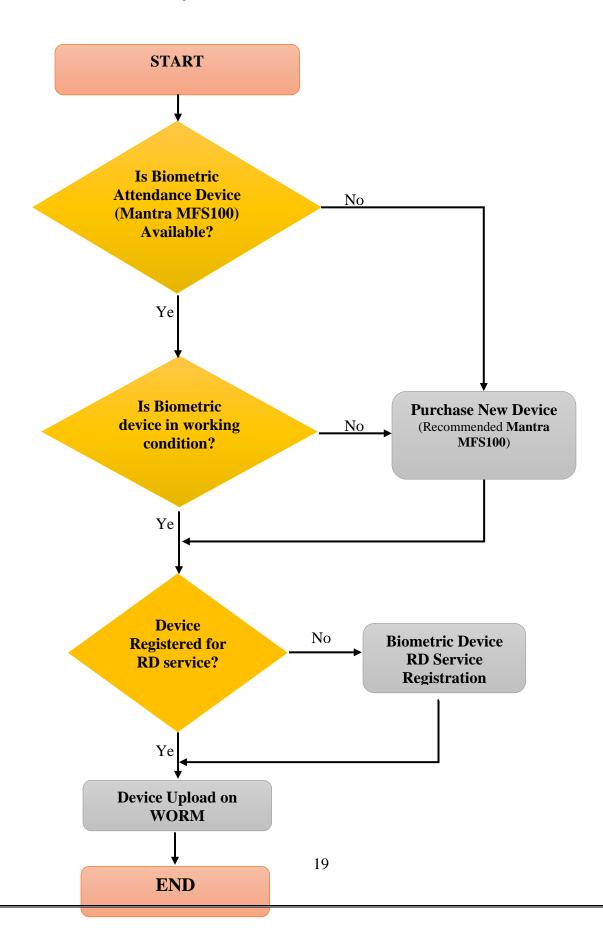
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5	Learner Name Change Request	
6	Human Resource details	Report
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Note: Only RD Services registered device will upload through the WORM



7.3. Device upload on WORM- Process Flow chart

7.4. Integration with Local ERA for Biometric Attendance

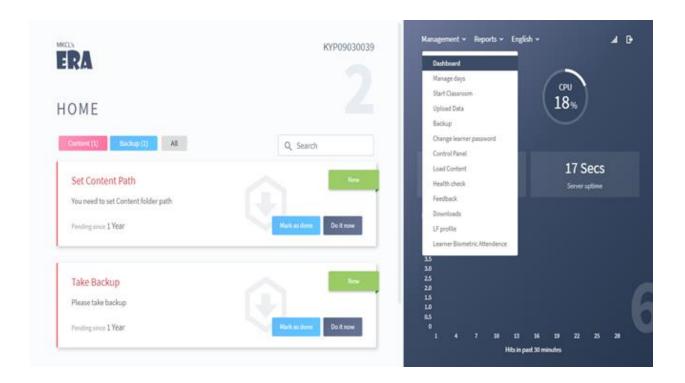
In ERA, Learner Attendance is marked through teacher client using Aadhaar Biometric Authentication.

The Following is the Process Flow:

Step 1:

Learner Facilitator Login





Step 2:

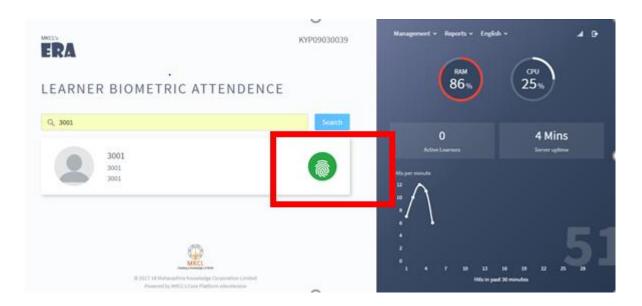
In Learner Biometric Attendance page, search a specific learner by learner Id



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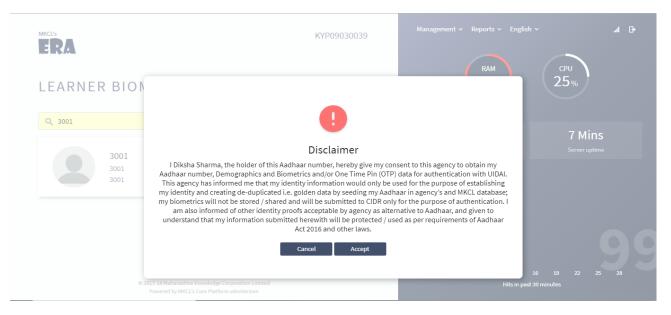
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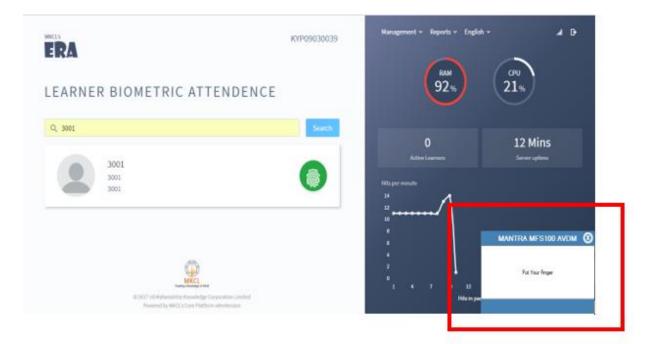
Mark Biometric Attendance by clicking on the thumb icon on Learner card

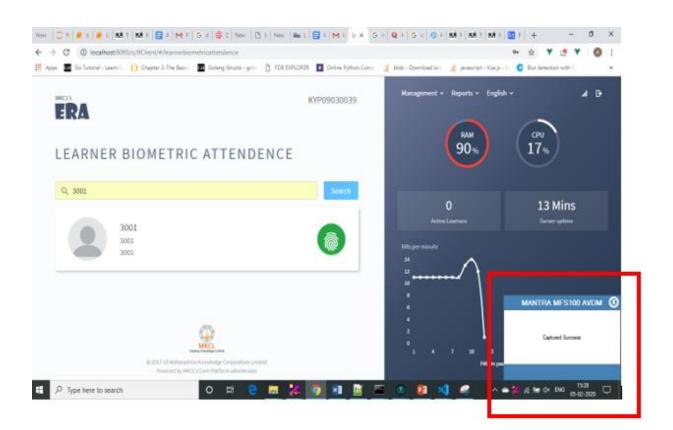


Step 4:

Accept the disclaimer to proceed further.







After Accepting the disclaimer, the biometric fingerprint details are captured which include the PID block. This data is sent to the **MKCL Aadhar Gateway** along with the Learner MKCL Identification Number(MIN)

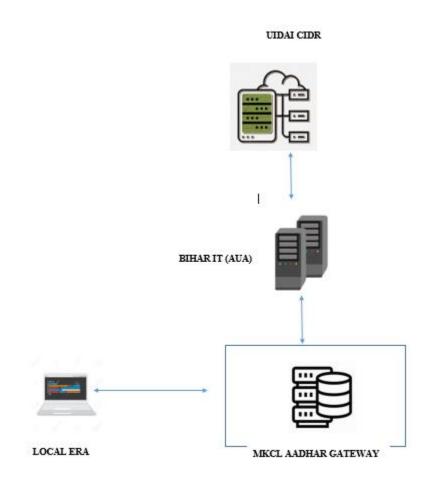
1)Biometric Fingerprint

2)PID Block

3)MIN(mkcl Identification number)

Step 5:

Aadhaar Biometric Gateway



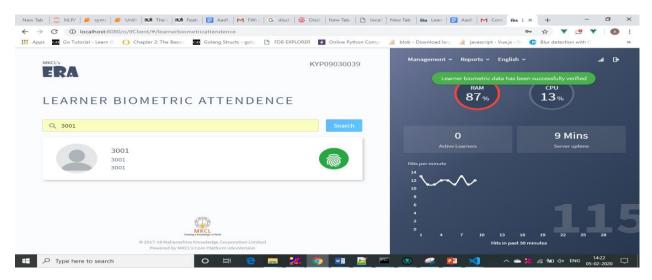
The MIN value that is sent from the local **ERA** is matched with the entries in the database and the Aadhar number corresponding to the MIN is retrieved and the values (Aadhar Number, PID) are sent to **Bihar IT** that provides connectivity using private secure networks to UIDAI's data centers for transmitting authentication requests.

In UIDAI, the Aadhaar holder's record is first selected using the Aadhaar Number and then the demographic/biometric inputs are matched against the stored data within CIDR which was provided by the Aadhaar holder during enrolment/update process and the response is sent back to Bihar IT Service which in turn is sent to the MKCL Aadhar Gateway. Response and logs of the transaction is stored in MKCL Aadhar gateway. The response that is received is sent to the local ERA where the attendance is marked for the specific learner if the learner is authenticated.

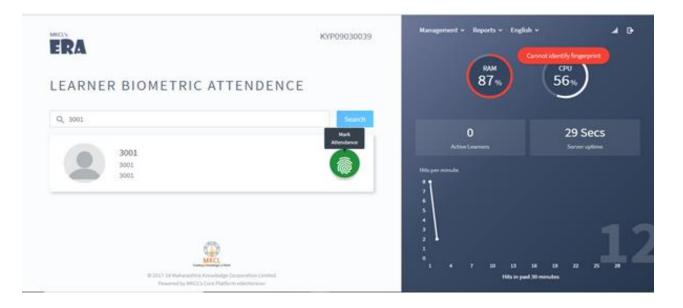
Step 6:

Response

On Successful Authentication the attendance will be marked.



On Unsuccessful Authentication



8. Conclusion

With the BSDM having decided to put in place AEBAS at all the empaneled SDCs across Bihar, it becomes mandatory for the learners and learning facilitators of the SDCs to mark their attendance in real-time and prohibit them to temper the attendance which may finally impact the skill training quality. The monitoring and tracking of attendance would takes place in real-time and overcome the case of impersonation which is being held at various SDCs.

9. Frequently asked questions (FAQs)

- What if current biometric device is not working? You can purchase new device from market recommended device is Mantra MFS100
- 2. What is RD Service Registration?

The Registered Device (RD) Service keeps security at the forefront by allowing secure registration of all devices without storing any data on the device. Without RD service registration using UIDI services is not possible.

- 3. What if we are getting RD registration with new biometric device? If you purchase new biometric device with one year of RD service registration in such cases you can directly check the RD service status and upload the device on SOLAR portal.
- 4. Can we upload more than one device on WORM? Currently only one device is allowed to upload, we suggest to keep one more device in spare for the use.
- 5. Can we register biometric device from other websites except SERVICO?

There are multiple online RD service registration provides we have recommended Mantra official provider for MFS100 device, you can purchase the services from any of the provides available in the market 6. Can we upload device more than one time in case of technical problem?

Yes, in case of technical issue of existing device you can upload another RD service registered device.

7. Can we upload non RD service registered device on WORM? No, only RD service registered is allowed to upload

10. References

- 1. <u>https://www.meity.gov.in/writereaddata/files/AADHAR_Enabled_Bio-</u> metric_Attendance_System.pdf
- 2. https://www.timedynamo.com/blog/aebas
- 3. <u>https://www.matrixaccesscontrol.com/aebas.html</u>
- 4. <u>https://analyticsindiamag.com/understanding-biometrics-scope-india/#:~:text=In%20a%20recent%20development%20pertaining,payment%20transactions%20by%20June%2030</u>.
- 5. https://uidai.gov.in/images/tenders/rfe_attendance_system_270614.pdf

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