



# **User Manual**

## **ePushServer**

## **Web Based Application e-Push Sever Linux and Windows Based**

The Software has been written using Java 1.8 Version for easy Integration across all OS platforms. It has been created to do Seamless Integration for managing ESSL Attendance Devices over the Web.

Following operations can be performed using the e-PUSH SERVER Software –

- Create Users, Employees and Device Information
- Upload Employees, Upload Employees Fingerprints, Face, Palm, cards, Password Create Device Commands for device execution
- View Attendance Log Reports, Device Operation Log Reports, Device Command Log Report

The Software can be deployed on following Operating System –

- Windows
- Linux
- Mac

The Software can be deployed on following Web Server on Windows operating System -

- IIS with Apache Tomcat
- Apache with Apache
- Tomcat Apache Tomcat

The Software can be deployed on following Web Server on Linux operating System –

- Apache server with Apache Tomcat
- Apache Tomcat

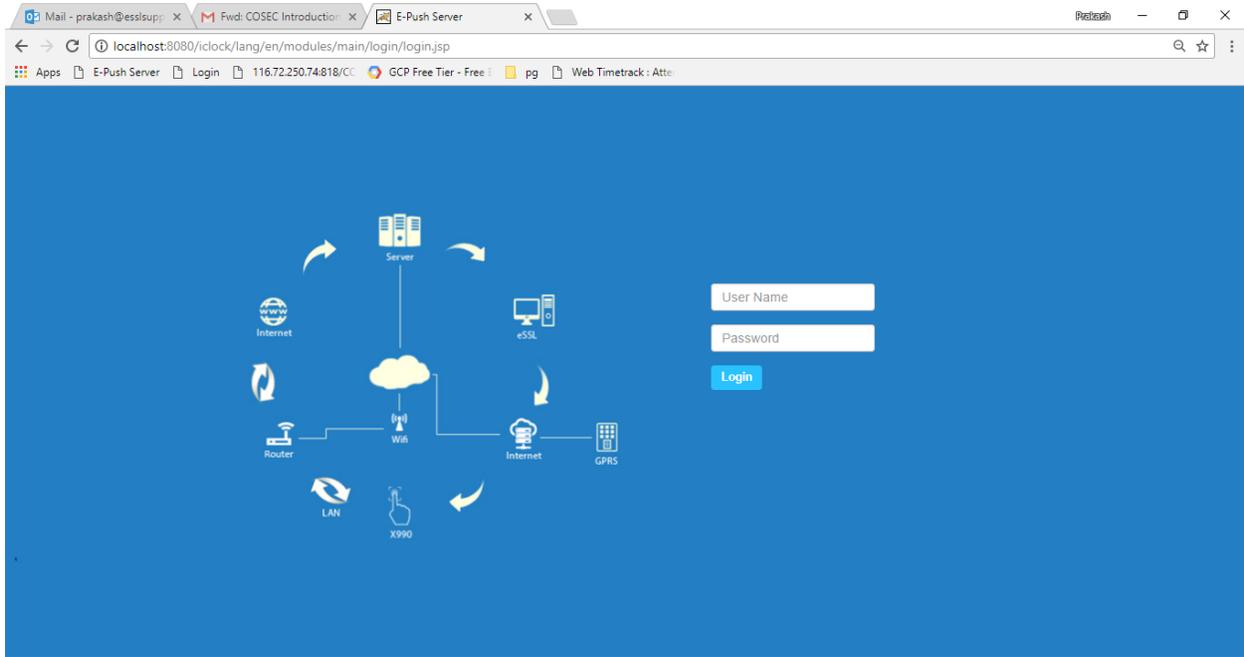
The Software Backend Data Management is managed using following Databases -

- Microsoft SQL Server
- MYSQL Server
- Oracle Server
- Postgres SQL

The features of the software are –

- Less Database connectivity because of better data management inside the software
- Real time attendance data updated for processing
- Software can handle Load Balancing
- Hardware requirement is less.
- It can be hosted on LAN or WAN Network
- Fixed database table structure for managing the software.
- Device logs table is created based on month and year.
- We can integrate the system with other system easily.

## Application Front Page



**Username : root**

**Password : root**

## Main Window

**E-PUSH SERVER   DASHBOARD   ADMIN   MASTER   DEVICE MANAGEMENT** ESSL   LOG OUT

**TOTAL EMPLOYEE**  
334

**TOTAL DEVICE**  
6

**TOTAL LOG OF MONTH**  
9

**TOTAL LOG OF DAY**  
9

LIVE DEVICE LOGS												
	Device-Log#	Device-Name	Serial No.	Device-Location	Emp-Code	Emp-Name	Log-Date	Downloaded-Date	Verify Method	Lat	Long.	Log-Img
1	9	SF	OIN612006611	essl	1	vishnu	2017-10-06 11:55	2017-10-06 11:56	VS_FACE	0	0	
2	8	SF	OIN612006611	essl	1	vishnu	2017-10-06 11:55	2017-10-06 11:55	VS_FACE	0	0	
3	7	SF	OIN612006611	essl	1133	0	2017-10-06 11:55	2017-10-06 11:55	VS_FACE	0	0	
4	6	SF	OIN612006611	essl	1133	0	2017-10-06 11:55	2017-10-06 11:55	VS_FACE	0	0	

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## Main Window Tabs:

1. Dashboard
2. Admin
3. Master
4. Device Management

### 1. Dashboard :

In Dash board we can view live data [Log records]

- a. **Total Employee:** Total number of employees enrolled.
- b. **Total Devices:** Total number of devices connected.
- c. **Total Log of Month:** Total number of punch records in a month.
- d. **Total Log the day:** Total number of punch records in a day.

### 2. Admin : User Info

The screenshot displays the eSSL dashboard interface. At the top, there is a navigation bar with tabs for 'E-PUSH SERVER', 'DASHBOARD', 'ADMIN', 'MASTER', and 'DEVICE MANAGEMENT'. On the right side of the navigation bar, there are links for 'ROOT' and 'LOG OUT'. Below the navigation bar, there are four summary cards: 'TOTAL EMPLOYEE' (9), 'TOTAL DEVICE' (3), 'TOTAL LOG OF MONTH' (23), and 'TOTAL LOG OF DAY' (0). The main content area is titled 'USER INFO' and contains a table with columns for 'User Id', 'Login-Name', 'Admin', 'Last-Login', 'Edit', and 'Status'. The table has one row with the following data: User Id: 101, Login-Name: root, Admin: YES, Last-Login: 2017-12-05 10:28:59, Edit: [Edit icon], Status: Enabled. The table also includes filter options for 'User Types' (set to [All]), 'TOP' (set to [Top-500]), and 'Status' (set to [All]). At the bottom of the table, there is a pagination control showing 'Page 1 of 1' and 'View 1 - 1 of 1'.

User Info is used to create application login users with **ADD** option and also can **SEARCH, EDIT, FILTER** the users

## User Info → Search

**USER INFO**

User Types: [All] | TOP: [Top-500] | Status: [All] | Search

User Id	Login-Name	Admin	Last-Login	Edit	Status
1	root	YES	2017-12-05 10:28:59		Enabled

Search...  
User Id equal  
User Id  
Login-Name  
Admin  
Last-Login  
Edit  
Status  
Find

Page 1 of 1 | 100 | View 1 - 1 of 1

## User Info → Edit

**Update User Info**

LOGIN NAME:       PASSWORD:

UPDATE PASSWORD:       ADMIN:

STATUS:

## User Info → Filter -

USER INFO							
		User Types	TOP	Status			
		[All]	[Top-500]	[All]	Q		
User Id	Login-Name	Admin	Last-Login	Edit	Status		
1	101	root	YES	2017-12-05 10:28:59	<input type="checkbox"/>	Enabled	
2	102	system	YES	1900-01-01 00:00:00	<input type="checkbox"/>	Enabled	

Page 1 of 1 | 100 | View 1 - 2 of 2

## 3. Masters :

Master → Employee Info

The option is used to display the employee's information which is pushed from the biometric devices and also can **EDIT, SEARCH** employee details.

E-PUSH SERVER   DASHBOARD   ADMIN   MASTER   DEVICE MANAGEMENT   ROOT   LOG OUT

TOTAL EMPLOYEE  
2

TOTAL DEVICE  
11

TOTAL LOG OF MONTH  
1

TOTAL LOG OF DAY  
0

EMPLOYEE INFO								
		TOP	Emp. Status					
		[Top-500]	[Active]	Q				
EmpL Id	Emp. Name	Emp. Code	Emp. Code In Device	Emp. Device Pwd.	RFID Number	Status	Edit	In-Activate
1	102	V Sharma	1127	1127		23504	ACTIVE	<input type="checkbox"/> <input type="checkbox"/>
2	101	1133	1133	1133			ACTIVE	<input type="checkbox"/> <input type="checkbox"/>

Export to CSV | Page 1 of 1 | 100 | View 1 - 2 of 2

## Employee info → Edit

### Update Employee

NAME	<input type="text" value="Prakash L"/>	CODE	<input type="text" value="1133"/>
DEVICE CODE	<input type="text" value="1133"/>	DEVICE PASSWORD	<input type="text"/>
RFID NUMBER	<input type="text" value="321456987"/>	STATUS	<input type="text" value="Active"/>

## Employee info → Search

Search... ✕

Empl. Id	equal	<input type="text"/>
----------	-------	----------------------

- Empl. Id
- Empl. Name
- Empl. Code
- Empl. Code In Device
- Empl. Device Pwd.
- RFID Number
- Status
- Edit
- In-Activate

	1
	1133
	123

## Employee info → Upload Employee Info

In this option we can upload employees information through excel sheet format we given in master - employees

E-PUSH SERVER
DASHBOARD
ADMIN
MASTER
DEVICE MANAGEMENT
ROOT
LOG OUT

**TOTAL EMPLOYEE**  
9

**TOTAL DEVICE**  
3

**TOTAL LOG OF MONTH**  
23

**TOTAL LOG OF DAY**  
0

Choose File
EmployeeInfo.csv
Upload Employees

#	Employee Name	Employee Code	Device Code	Password	Card Number
1	1	1	1		
2	1133	1133	1133		
3	shai	123	123		
4	1782	1782	1782		
5	1804	1804	1804		
6	2	2	2		
7	3	3	3		
8	4	4	4		
9	5	5	5		

View 1 - 9 of 9

## 4. Device Management

It is used to add the devices in the application and also to search the devices

**Device Management → Device Info**

The screenshot shows the 'DEVICE MANAGEMENT' section of the application. At the top, there is a navigation bar with 'E-PUSH SERVER', 'DASHBOARD', 'ADMIN', 'MASTER', and 'DEVICE MANAGEMENT'. On the right, there are links for 'ROOT' and 'LOG OUT'. Below the navigation bar, there are four summary cards: 'TOTAL EMPLOYEE 2', 'TOTAL DEVICE 11', 'TOTAL LOG OF MONTH 1', and 'TOTAL LOG OF DAY 0'. The main content area is titled 'DEVICE INFO' and contains a table with columns: Device-Id, Device-FullName, Device-ShortName, Serial No., Last Ping Date, Stamp, OP-Stamp, PH-Stamp, Edit, Status, and Delete. The table lists 11 devices, all of which are currently 'OFFLINE'. At the bottom of the table, there is a pagination control showing 'Page 0 of 1' and 'View 1 - 11 of 11'.

### ADD Device info –

The 'Update Device Info' form contains the following fields:

- DEVICE NAME: i face
- SERIAL NUMBER: 6316153300601
- LOCATION:blr
- TIMEOUT: 300
- SHORT NAME: i face
- IP ADDRESS: 192.168.1.201
- TIMEZONE: 330
- DIRECTION: System Direction(In/Out) Device

At the bottom of the form, there are two buttons: 'Update' and 'Cancel'.

**Device name:** To assign a device name.

**Short Name:** To assign a short name.

**Serial Number:** To assign 19 digit serial number of the biometric device (It is Mandatory for device communication)

**IP address:** To assign device ip address

**Location:** To assign device location

**Time Zone:** This option is used for time synchronization where one can assign time zone value and as per that device timing automatically get synchronized with the server timing

**Example:**

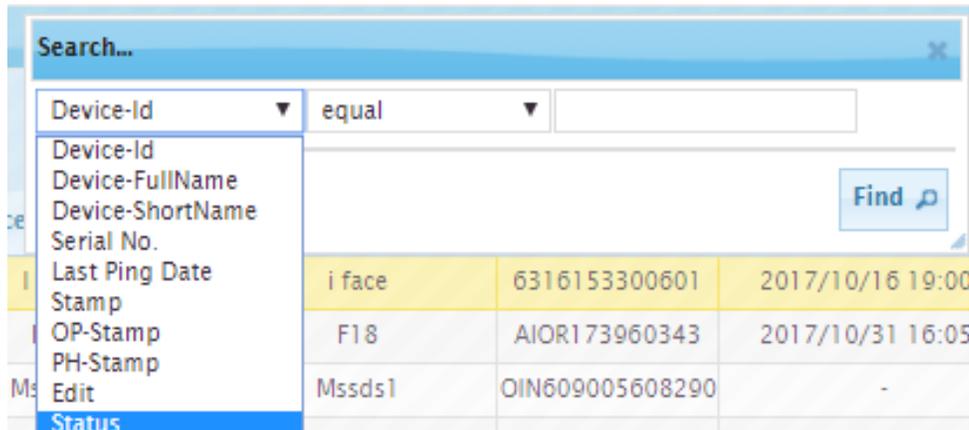
**India Time Zone [+5.30]:-** +5:30 value is not recognized by the software so it is converted into minutes and then added to the software i.e., mentioning as 330 minutes  $[(5*60) +30]$

**Dubai Time Zone [+4.00]:-** +4:00 value is not recognized by the software so it is converted into minutes and then added to the software i.e., mentioning as 240 minutes  $[(4*60) +0]$

**Time Out:** when device is in idle mode and no punches are made then the device will get disconnected with the server after the set time. Default 300 second is assigned

**Device Info → Search Option**

The option is used to search the added device by its Device ID, Device Full Name, Serial Number, Last Ping Date, stamp, Op stamp, PH-Stamp, Edit, Status wise.



## Right click on device –

All the below commands will execute only if the device is online

The screenshot shows the 'DEVICE MANAGEMENT' section of the eSSL interface. At the top, there are four summary cards: 'TOTAL EMPLOYEE' (9), 'TOTAL DEVICE' (3), 'TOTAL LOG OF MONTH' (23), and 'TOTAL LOG OF DAY' (0). Below these is a 'DEVICE INFO' table with columns for Device-Id, Device-FullName, Device-ShortName, Serial No., Last Ping Date, Stamp, OP-Stamp, PH-Stamp, Edit, Status, and Delete. A context menu is open over the first device (ID 114, Status OFFLINE), listing actions such as 'Reset Device Error', 'Reset Transaction Stamp', 'Reset OP Stamp', 'Reset Photo Stamp', 'Clear Logs From Device', 'Change Device IP Address', 'Change Device Subnet Mask', 'Change Device Gateway', and 'Change Device Card Key'.

Device-Id	Device-FullName	Device-ShortName	Serial No.	Last Ping Date	Stamp	OP-Stamp	PH-Stamp	Edit	Status	Delete
1	101	I face	I face	6316153300601	2017/12/02 16:03:22	0	0	0	OFFLINE	
2	114	SF900	SF900	OIN812006611080	2017/12/04				OFFLINE	
3	113	F21	F21	OIN706006705180	2017/12/01				OFFLINE	

**Reset Device error:** At the time of connecting device to the software device will throw a error if the device is not compatible with the software. The command is used to clear these errors

**Reset Transaction Stamp:** The command is used to send a request to the device for resending all the log data to the application.

**Reset OP Stamp:** The command is used to send a request to the device for resending all the users along with fingerprint templates to the application.

**Reset PH-Stamp:** The command is used to send a request to the device for resending all the users along with Attendance Photo to the application.

**Clear Logs from device:** The command is used to clear all the logs from device.

**Change Device Ip address:** The command is used to change the device Ip address.

**Change Device subnet mask:** The command is used to change the device subnet mask.

**Change Device Gateway:** This command will change the device gateway.

**Change Device Card Key:** The command is used to change the mifare card password for the devices integrated with the mifare

**Restart Device:** The command is used to restart the device.

## Device Management → Device Log

Device Logs contains raw data in which log records can be viewed and also used to filter Device wise and Date (From-To date) wise records

**Auto- Reload:** - The option is used to refresh the page automatically

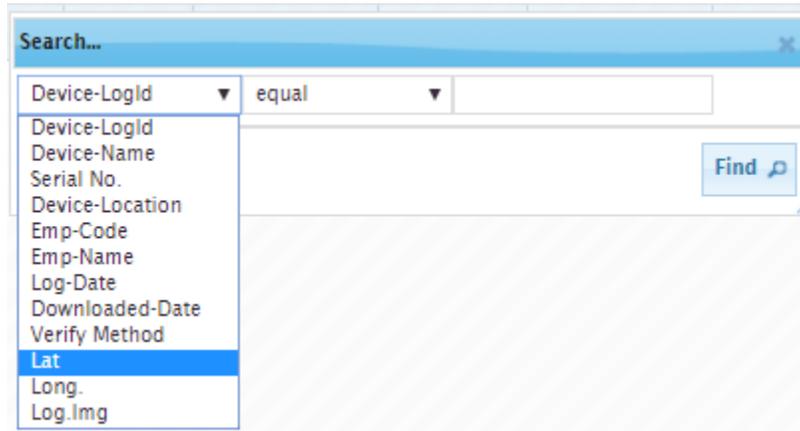
**Top – 500, 1000, 1000, 5000, 50000,100000 logs can be filtered**

The screenshot displays the eSSL Device Management interface. At the top, a navigation bar includes 'E-PUSH SERVER', 'DASHBOARD', 'ADMIN -', 'MASTER -', and 'DEVICE MANAGEMENT -'. On the right, there are user icons for 'ESSL' and 'LOG OUT'. Below the navigation bar, four summary cards are visible: 'TOTAL EMPLOYEE 115' (blue), 'TOTAL DEVICE 10' (orange), 'TOTAL LOG OF MONTH 77769' (green), and 'TOTAL LOG OF DAY 10' (pink). The main section is titled 'DEVICE LOGS' and features a table with columns: Device-Log, Device-Name, Serial No., Device-Location, Emp-Code, Emp-Name, Log-Date, Downloaded-Da, Verify Method, Lat, Long., and Log-Img. The table is filtered to show 5 records. Above the table, there are controls for 'AUTO-RELOAD' (checkbox), 'TOP' (dropdown set to 'Top-500'), 'DEVICES' (dropdown set to '[ALL]'), 'FROM DATE' (2017-05-24), and 'TO DATE' (2017-05-24). A search icon is also present. The footer of the table area shows 'Page 1 of 1' and 'View 1 - 10 of 10'.

Device-Log	Device-Name	Serial No.	Device-Location	Emp-Code	Emp-Name	Log-Date	Downloaded-Da	Verify Method	Lat	Long.	Log-Img
1 77769	icloxck	OIND12003612	blr	988888888	988888888	2017-05-24 12:40:2017-05-24 12:40:	2017-05-24 12:40:2017-05-24 12:40:	VS_FP_OR_PW_OR_RF_	0	0	
2 77768	icloxck	OIND12003612	blr	988888888	988888888	2017-05-24 12:40:2017-05-24 12:40:	2017-05-24 12:40:2017-05-24 12:40:	VS_FP_OR_PW_OR_RF_	0	0	
3 77767	icloxck	OIND12003612	blr	988888888	988888888	2017-05-24 12:40:2017-05-24 12:40:	2017-05-24 12:40:2017-05-24 12:40:	VS_FP_OR_PW_OR_RF_	0	0	
4 77766	icloxck	OIND12003612	blr	988888888	988888888	2017-05-24 12:40:2017-05-24 12:40:	2017-05-24 12:40:2017-05-24 12:40:	VS_FP_OR_PW_OR_RF_	0	0	
5 77765	icloxck	OIND12003612	blr	988888888	988888888	2017-05-24 12:40:2017-05-24 12:40:	2017-05-24 12:40:2017-05-24 12:40:	VS_FP_OR_PW_OR_RF_	0	0	

## Device Logs → Search Logs

The option is used to search device logs by Device-LogID, Device Name, Serial Number, Device Location, Employee code, Employee name, Log date, Download date, Verify method ,Lat , Long , Log.Img



**DEVICE LOGS**

AUTO-RELOAD  TOP [Top-500] DEVICES [ALL] FROM DATE 2017-12-01 TO DATE 2017-12-05

Device-LogId	Device-Name	Serial No.	Device-Location	Emp-Code	Emp-Name	Log-Date	Downloaded-Date	Verify Method	Lat	Long.	Log.Img
17	7	006611	blr	1	1	2017-12-02 16:59:	2017-12-04 13:05:	VS_FP	0	0	
18	6	006611	blr	1	1	2017-12-02 16:56:	2017-12-04 13:05:	VS_FP	0	0	
19	5	F21	OIN706006705	b	1133	2017-12-01 12:08:	2017-12-01 12:08:	VS_FP	0	0	

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## Device Management → Device Commands

The device command is used to view the status of the commands

For Example: - Upload users or fingerprint templates, reset OP stamp, reset transaction stamp, reset PH-photo Stamp etc

E-PUSH SERVER DASHBOARD ADMIN MASTER DEVICE MANAGEMENT ROOT LOG OUT

TOTAL EMPLOYEE 9 TOTAL DEVICE 3 TOTAL LOG OF MONTH 23 TOTAL LOG OF DAY 0

**DEVICE COMMANDS**

TOP: [Top-500] DEVICES: [All] FROM DATE: 2017-12-01 TO DATE: 2017-12-05 STATUS: [All]

Command-Id	Device-Name	Serial No.	Device-Location	Device-Commands	Created-Date	Executed-Date	Status	Delete
1	2117	SF900	OIN61200661108	blr	DELETE USER 1133	2017-12-04 13:26:57	2017-12-04 13:27:06	SUCCESS
2	2116	SF900	OIN61200661108	blr	ENROLL FINGER 1133[BioIndex=3]	2017-12-04 13:24:30	2017-12-04 13:25:25	SUCCESS
3	2115	SF900	OIN61200661108	blr	ADD USER 1133	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS
4	2114	SF900	OIN61200661108	blr	ADD USER 1133	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS
5	2113	SF900	OIN61200661108	blr	RESET TRANSACTION STAMP	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS
6	2112	SF900	OIN61200661108	blr	RESET TRANSACTION STAMP	2017-12-04 13:19:43	2017-12-04 13:21:54	SUCCESS
7	2111	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:52	SUCCESS
8	2110	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:51	SUCCESS
9	2109	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:50	SUCCESS
10	2108	SF900	OIN61200661108	blr	DEVICEERROR	2017-12-04 13:19:43	2017-12-04 13:21:50	SUCCESS
11	2107	i face	6316153300601	blr	RESET PHOTOSTAMP	2017-12-02 16:00:35	2017-12-02 16:00:37	SUCCESS

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## Device Management → Device Operation Log

The option will display the operations of the device.

E-PUSH SERVER DASHBOARD ADMIN MASTER DEVICE MANAGEMENT ROOT LOG OUT

TOTAL EMPLOYEE 2 TOTAL DEVICE 11 TOTAL LOG OF MONTH 1 TOTAL LOG OF DAY 0

**DEVICE OPERATIONS LOGS**

AUTO-RELOAD:  TOP: [Top-1000] LOG TYPE: [All] DEVICES: [All] FROM DATE: 2017-10-01 TO DATE: 2017-11-28

Device-OPLogId	Log-Type	ExecutedOn	Device-Name	Serial No.	Device-Location	
1	2	Enter into the Main Menu	2017/11/27 18:10:09	iclock	OIN6120036122000355	BLR
2	1	Enter into the Main Menu	2017/11/27 18:09:57	iclock	OIN6120036122000355	BLR

Page 1 of 1 View 1 - 2 of 2

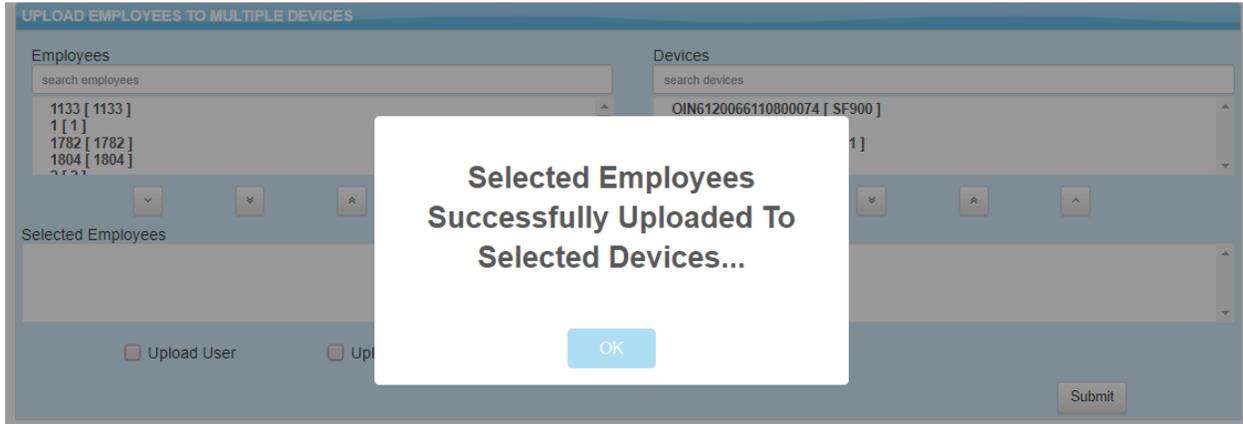
## Device Management → Device Employees

Device employees is we can view users in device monthly wise and device wise we can filter then view in that particular month logs is there in any particular device we can filter and view

	Device-Id	Device-Name	Serial No.	Device-Location	Employee-Id	Employee-Name	Employee-Code
1	108	x-990old	4265591420810	blr	213	75025	75025
2	108	x-990old	4265591420810	blr	214	7	7
3	108	x-990old	4265591420810	blr	208	1804	1804
4	108	x-990old	4265591420810	blr	209	prakashl	1133
5	108	x-990old	4265591420810	blr	138	l	l

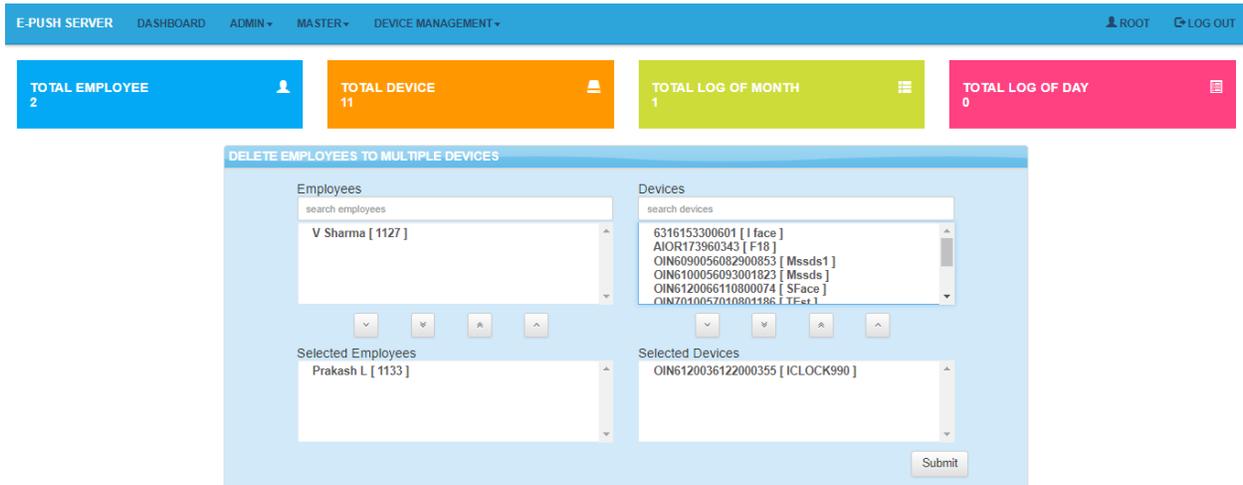
## Device Management → Upload Employees to Devices

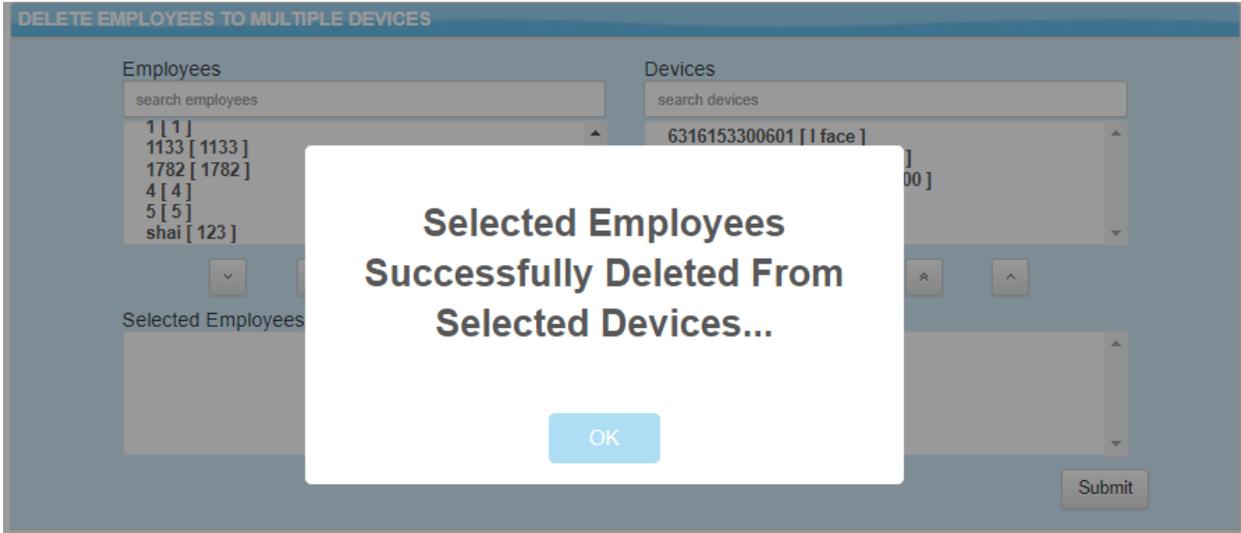
The option is used to upload users to the devices through software  
The search filter tab is used to select the particular employee and device for uploading it to the multiple devices



## Device Management → Delete Employees from Device

The option is used to delete the employees from devices





## Device Management – Upload Employees Attendance for a Device

Through pen drive we can take the raw data from Offline device upload data in epushserver database

The screenshot displays the "Device Management" dashboard. At the top, there is a navigation bar with links: E-PUSH SERVER, DASHBOARD, ADMIN, MASTER, and DEVICE MANAGEMENT. The dashboard includes four summary cards: "TOTAL EMPLOYEE 115", "TOTAL DEVICE 10", "TOTAL LOG OF MONTH 77759", and "TOTAL LOG OF DAY 5". Below these cards is a section titled "UPLOAD EMPLOYEES ATTENDANCE FOR A DEVICE". This section includes a dropdown menu for "DEVICES" (currently showing "4265591420810 | x-91"), a "Choose file" button (with a file named "DIN606005606....\_atlog.dat" selected), and an "Upload Attendance" button. Below the buttons is a table with the following data:

#	Employee Code	Log Date-Time
1	1582	2016-07-19 11:49:19
2	1582	2016-07-19 11:49:21
3	1582	2016-07-19 11:49:23
4	1582	2016-07-19 11:49:27
5	1582	2016-07-19 11:50:03
6	1582	2016-07-19 11:50:05
7	1582	2016-07-19 11:50:05
8	1582	2016-07-19 11:50:06
9	1582	2016-07-19 11:50:08
10	1582	2016-07-19 11:50:09
11	1582	2016-07-19 11:50:10
12	1582	2016-07-19 11:50:11

At the bottom of the table, there is a pagination control showing "Page 1 of 2" and "100" items per page, and a "View 1 - 100 of 153" indicator.

## Device Management- Device Employees Privilege

Through this option we can set admin privilege in Device

## Device Management- Remote Employee Enrollment in Device

Through this option we can send user id to device then in device it will pop up finger print option we can punch time 3 time it will enroll and it save finger print in device.



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