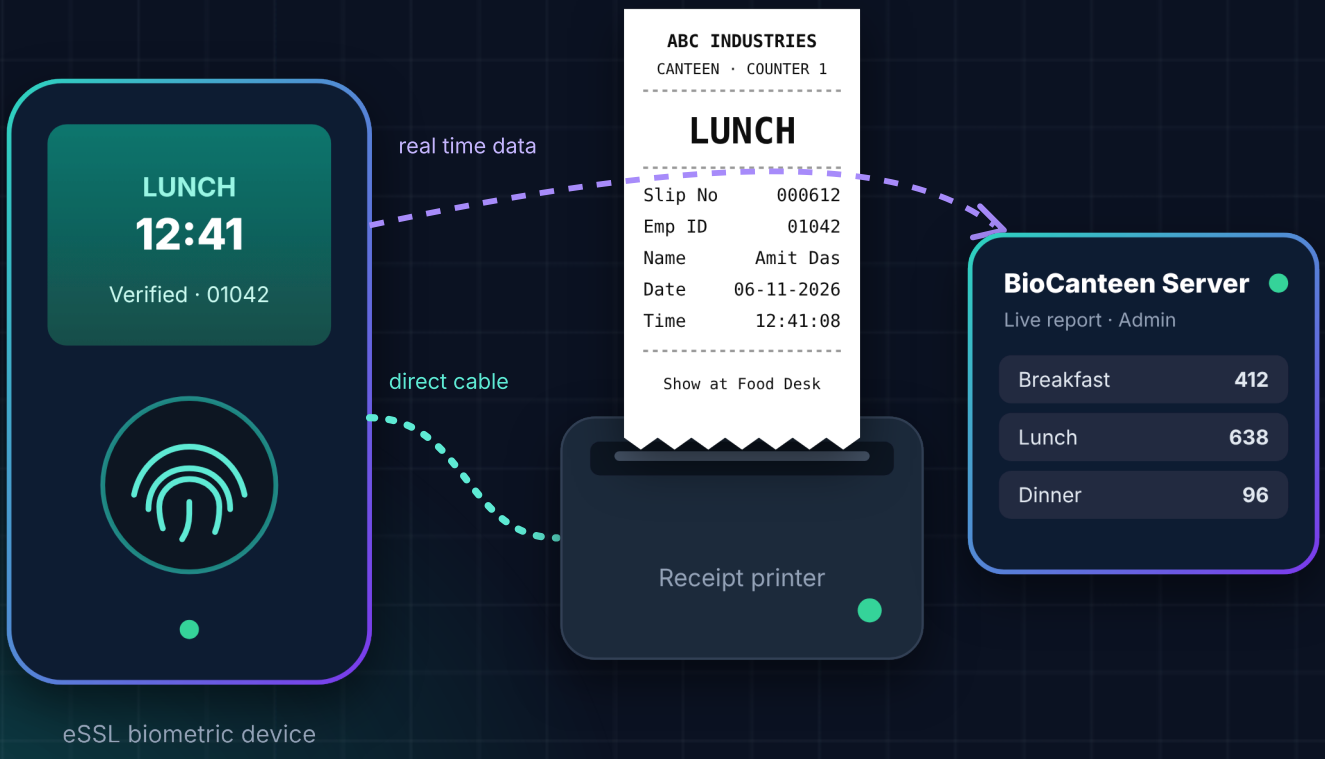
BIOCANTEEN
BIOMETRIC CANTEEN MANAGEMENT

PRODUCT BROCHURE · BY BIOTECH

Punch. Print. Eat.
Every meal on record.

BioCanteen connects your eSSL biometric device to a receipt printer and to a central server. Employees punch, the food slip prints instantly, and every meal reaches the admin in real time. So you always know exactly how many breakfasts, lunches and dinners your canteen vendor really served.

- eSSL biometric device
- Instant food slip
- Real time server data
- Admin · Employee · Food Desk logins
- Vendor bill verification



Engineered by **BIOTECH**

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THE PROBLEM WE SOLVE

The vendor sends a bill. How do you verify it?

Most companies run their canteen through a third party vendor. At the end of the month the vendor submits a report: so many breakfasts, so many lunches, so many dinners. The admin is expected to approve and pay it, but there is no proper digital record to check it against. Handwritten registers and paper coupons can be lost, copied or inflated, and nobody can prove what was really served.

Without BioCanteen

- ✕ Vendor's monthly report is the only source of numbers
- ✕ Paper registers and coupons can be lost, copied or filled later
- ✕ No proof of who ate, which meal, at what time
- ✕ Disputes between admin, HR and vendor every month
- ✕ Company may pay for meals that were never served

With BioCanteen

- ✓ Every meal starts with a biometric punch on an eSSL device
- ✓ A printed slip is the only way to receive food at the counter
- ✓ Each punch is saved on the server with employee, meal and time
- ✓ Admin compares the vendor's bill with the digital count
- ✓ Pay only for meals that are on record

OUR OBJECTIVE

BioCanteen gives the admin, the employees and the canteen vendor one trusted digital record of every breakfast, lunch and dinner, so the monthly canteen bill can be verified in minutes, with proof, and with no arguments.

Who benefits

Management & admin

Verify the vendor's bill with proof and control canteen cost.

Canteen vendor

Fair, undisputed billing backed by the same digital data the admin sees.

Employees

No coupons to carry. Punch, collect the slip, enjoy the meal and see their own history.

HOW IT WORKS

One punch does two jobs at the same moment.

The eSSL biometric device at the canteen is connected directly to a receipt printer and to the BioCanteen server. When an employee punches, the device prints the food slip on the spot and sends the punch to the server in real time.

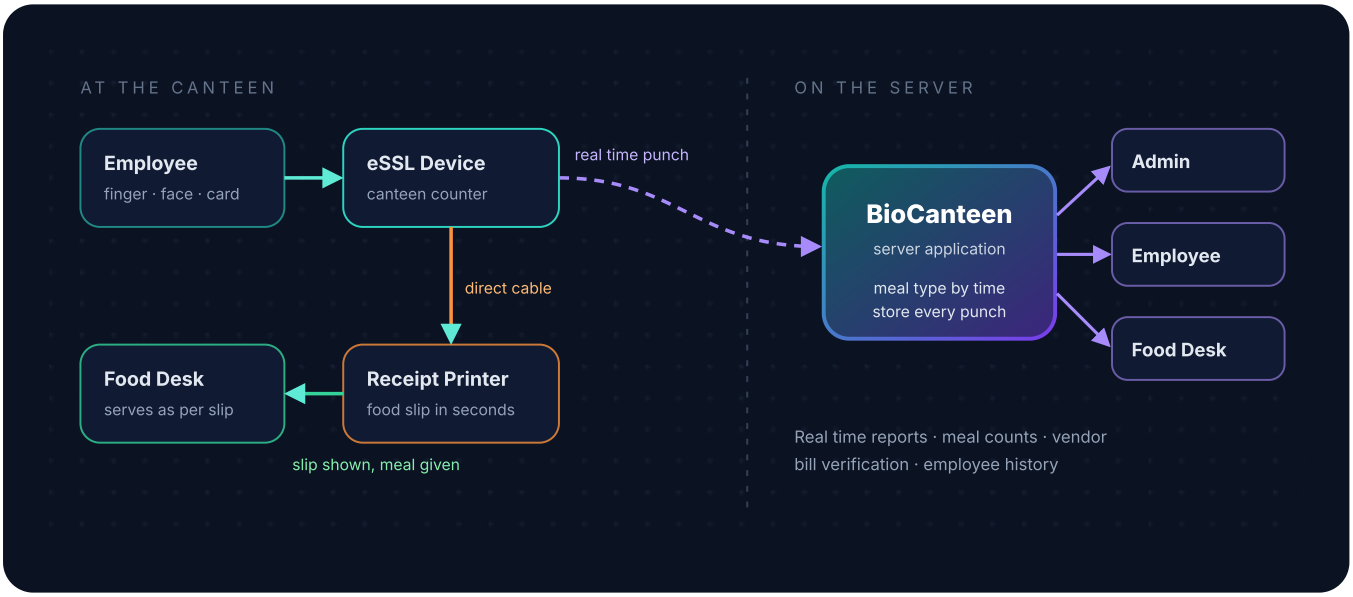
1 · Punch
Employee punches with finger, face or card on the eSSL device.

2 · Verified
The device confirms the identity and the punch is successful.

3 · Slip prints
The connected receipt printer instantly prints the food slip.

4 · Food served
The employee shows the slip at the Food Desk and receives the meal.

5 · Live report
The punch reaches the server. Admin sees the real time report.



Printing happens at the device

The slip is printed by the device and printer pair at the counter, so the queue keeps moving even during the lunch rush.

Data is safe on the server

Every successful punch is sent to the BioCanteen server through the eSSL integration and stored with employee, date, time, device and meal type.

EXAMPLE · ONE LUNCH, START TO FINISH

Amit's lunch at 12:41. Recorded in under a second.

12:41:05 — **Amit punches his finger**
Amit Das, employee 01042 of ABC Industries, places his finger on the eSSL device at Canteen Counter 1.

12:41:06 — **Punch successful**
The device verifies Amit and shows his ID on screen. The punch is accepted.

12:41:07 — **Food slip printed**
The receipt printer connected to the device prints his slip with slip number, employee ID, name, date and time. The meal is LUNCH because the punch falls in the lunch time.

12:41:08 — **Data reaches the server**
At the same moment the punch is sent to the BioCanteen server and appears in the live report.

12:42 — **Food is served**
Amit shows the slip at the Food Desk. The vendor's staff serve lunch as per the slip.

30 Nov — **Month end**
The vendor bills for 18,940 lunches. The admin opens BioCanteen, sees 18,212 verified lunches, and pays for what is on record.



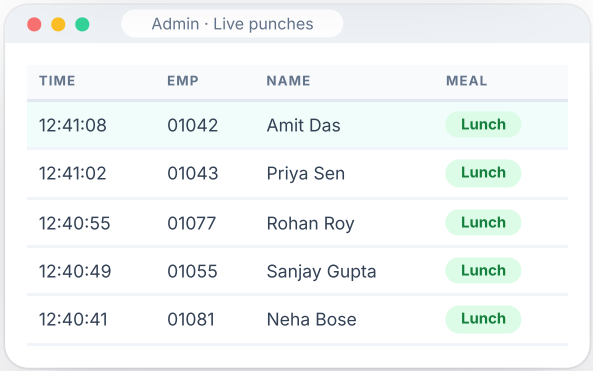
ABC INDUSTRIES
CANTEEN · COUNTER 1

LUNCH

Slip No	000612
Emp ID	01042
Name	Amit Das
Dept	Production
Date	06-11-2026
Time	12:41:07
Device	Counter 1

Show this slip at the Food Desk

Example food slip printed at the device



Admin · Live punches

TIME	EMP	NAME	MEAL
12:41:08	01042	Amit Das	Lunch
12:41:02	01043	Priya Sen	Lunch
12:40:55	01077	Rohan Roy	Lunch
12:40:49	01055	Sanjay Gupta	Lunch
12:40:41	01081	Neha Bose	Lunch

The same punch, live on the admin screen

MEAL TYPE BY TIME

MEAL	EXAMPLE TIME WINDOW	SLIP SHOWS	COUNTED IN REPORT AS
Breakfast	07:00 to 10:00	BREAKFAST	Breakfast
Lunch	12:00 to 15:00	LUNCH	Lunch
Dinner	19:00 to 22:00	DINNER	Dinner

Time windows are set by the admin to match your canteen and shifts.

THREE LOGIN MODES

The right screen for every person.

BioCanteen has three login modes. Each person sees only what they need, from the same real time data.

Admin

Full control

- Live dashboard of today's breakfast, lunch and dinner
- Real time punch report as it happens
- Manage employees, devices and meal timings
- Date, meal, department and employee wise reports
- Monthly meal count to verify the vendor's bill
- Create Food Desk and employee logins
- Export to Excel and PDF

Employee

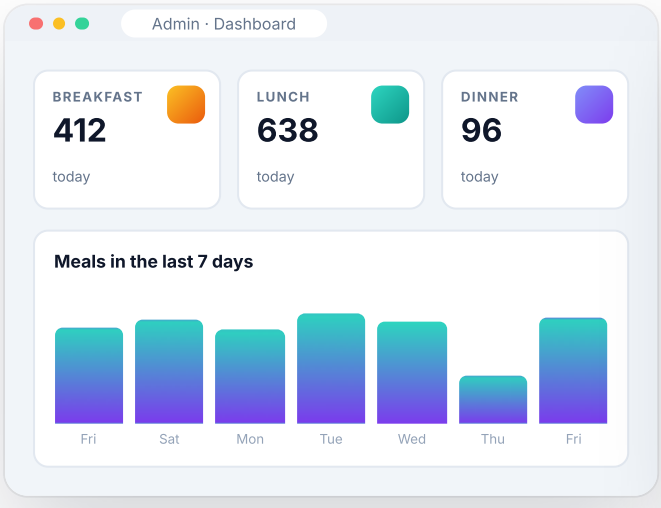
Self service

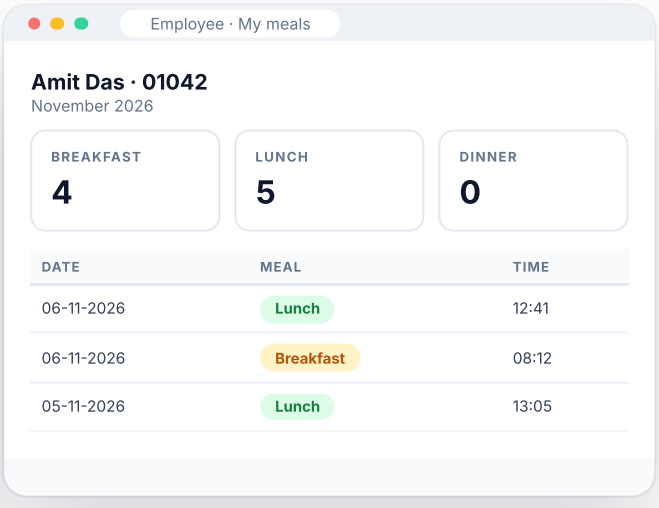
- See own meal history by date
- Breakfast, lunch and dinner count for the month
- Check the time of every punch
- Full transparency, no disputes
- Works on mobile and desktop browser

Food Desk

Canteen counter & vendor

- Live list of punches at the counter
- Today's count of each meal for serving and planning
- Check a slip against the live record
- Daily and monthly meal summary for the vendor
- Same numbers the admin sees





EXAMPLE · MONTH END

Vendor's report vs BioCanteen. The difference is now visible.

ABC Industries uses a third party caterer. For October the vendor submitted a bill for breakfast, lunch and dinner. The admin opened BioCanteen and compared it with the verified punch count in a few clicks.

MEAL	VENDOR'S REPORT	BIOCANTEEN VERIFIED	DIFFERENCE	RATE (₹)	EXTRA CLAIMED (₹)
Breakfast	9,850	9,412	438	30	13,140
Lunch	18,940	18,212	728	80	58,240
Dinner	2,610	2,604	6	70	420
Total	**31,400**	**30,228**	**1,172**		**₹71,800**

Example figures for illustration. Meal rates are as per your agreement with the vendor.

1,172
meals claimed without a punch record

₹71,800
saved in a single month in this example

₹8.6 lakh
potential saving in a year at this rate

Proof for every number

If the vendor questions the count, the admin can open the detail report and show each meal with employee, date, time and device.

Reports · Meal register · Lunch · 15 Oct 2026

SL	DATE	TIME	EMP ID	NAME	DEPARTMENT	DEVICE	MEAL
1	15-10-2026	12:04:11	01012	Kavita Paul	Accounts	Counter 1	Lunch
2	15-10-2026	12:04:19	01042	Amit Das	Production	Counter 1	Lunch
3	15-10-2026	12:04:30	01107	Suresh Saha	Maintenance	Counter 2	Lunch
4	15-10-2026	12:04:44	01043	Priya Sen	Quality	Counter 1	Lunch

... 612 records for this day

Fair for both sides. The vendor can log in to the Food Desk and see the same counts every day, so the month end bill is prepared from BioCanteen itself and matches the admin's report.

FEATURES

Everything the canteen needs, nothing it does not.

eSSL integration

Works with eSSL biometric devices. Punches come to the server in real time through the eSSL integration.

Instant food slip

Receipt printer connected to the device prints the slip the moment the punch is successful.

Meal timings

Breakfast, lunch and dinner time windows decide the meal for each punch.

Real time dashboard

Today's meal counts and live punches for the admin, refreshed automatically.

Three login modes

Admin, Employee and Food Desk, each with its own screens and permissions.

Vendor verification

Compare the vendor's monthly report with verified meal counts and show proof.

Reports included

REPORT	WHAT IT SHOWS	USEFUL FOR
Live punch report	Every punch as it happens: time, employee, device and meal	Admin, Food Desk
Daily meal summary	Breakfast, lunch and dinner count for the selected date	Admin, Food Desk
Monthly meal count	Total of each meal for the month, ready to check the vendor's bill	Admin, accounts
Meal register	Detailed list of all meals with employee, date, time and device	Admin, audit
Employee wise report	Meals taken by each employee in a date range	Admin, HR
Department wise report	Meal count by department or cost centre	Admin, management
My meals	The employee's own meal history	Employee

All reports can be filtered by date range, meal, department, device and employee, and exported to Excel or PDF.

TECHNICAL DETAILS

What you need to get started.

At the canteen counter

- eSSL biometric device with finger, face or card
- Thermal receipt printer connected to the device
- Thermal paper roll
- Network connection from the device to the server

At the server

- BioCanteen server application
- Windows or Linux server or PC
- MySQL database
- Any modern browser for the three logins

Example · punch data received by the server

```
// one successful punch at the canteen device
{
  "EmployeeCode": "01042",
  "LogDate":      "2026-11-06 12:41:07",
  "DeviceSerial": "CANTEEN-COUNTER-1",
  "VerifyMode":   "Finger",
  "Meal":         "Lunch"     // decided by BioCanteen from the meal timing
}
```

ITEM	DETAILS
Biometric device	eSSL devices: fingerprint, face and RFID card
Slip printing	Thermal receipt printer connected directly to the biometric device. Prints on every successful punch
Integration	eSSL integration sends each punch to the BioCanteen server in real time
Application	Web application in PHP, single page design, mobile friendly
Database	MySQL
Deployment	Offline on your own LAN server, or online on a web server for access from anywhere
Logins	Admin, Employee and Food Desk, with secure password login
Exports	Excel and PDF
Licensing	Licensed per installation by BIOTECH

IMPLEMENTATION

From first visit to the first verified meal.

1
Survey
We understand your canteen, vendor, counters and meal timings.

2
Install
Device and printer at the counter, BioCanteen on your server.

3
Configure
Employees, meal timings, Food Desk and employee logins.

4
Train
Admin and canteen staff trained on daily use and reports.

5
Go live
Every meal is printed, recorded and reported from day one.

FREQUENTLY ASKED QUESTIONS

Do employees need to carry coupons?
No. The employee's finger, face or card is the identity. The slip is printed fresh at every successful punch.

Can we use our existing eSSL devices?
Yes, eSSL devices that support a receipt printer can be used at the canteen counter. Our team checks your models during the survey.

How fast does the admin see the data?
In real time. Each successful punch is sent to the server immediately and appears on the dashboard and live report.

How is the meal type decided?
By the time of the punch. The admin sets the breakfast, lunch and dinner timings.

What does the vendor see?
The Food Desk login shows live punches and daily and monthly meal counts, the same data the admin uses.

Can employees see their own meals?
Yes. With the employee login they see their meal history and monthly count.

Does it need internet?
Not for the offline edition, which runs on your LAN. The online edition is hosted for access from anywhere.

Can it work with more than one counter?
Yes. Add more devices and printers, and reports show each counter separately as well as the total.

BIOCANTEEN

BIOMETRIC CANTEEN MANAGEMENT

Pay only for the meals that were really served.

Book a live demonstration. We will show a punch on an eSSL device, the food slip printing instantly and the same meal appearing on the admin report in real time.

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