



APPLICATION DEVELOPMENT & MAINTENANCE

A simple, accurate system to track **gold and profit**

How Techno Tackle replaced a narrow, disconnected setup at MRS Chains with one web platform that follows every gram of gold from intake to closing balance, and produces a daily profit or loss figure the business never had before.

— 50+ screens designed and built — Daily profit or loss, in grams — Locked opening balance — Layered access control

CLIENT	ENGAGEMENT	DURATION	STATUS
MRS Chains	Aug 2025 – Sep 2026	14 months	Live · In maintenance

AT A GLANCE

The engagement in brief

CLIENT	MRS Chains
INDUSTRY	Industrial Manufacturing
PROJECT	Gold Management System for MRS Chains
BUSINESS	Gold jewellery making, job work and retail
SCOPE OF WORK	Application Development & Maintenance
PLATFORM	Mobile-compatible web application
TECH STACK	Laravel · MySQL · MVC architecture
USERS	Super Admin, Report Admin, Accounts, Sub-Admins (shop-floor staff)
DELIVERY	Iterative and incremental, released in phases
STATUS	Live since October 2025, under maintenance and support
LIVE AT	mrsgoldchainrr.in

50+

SCREENS
BUILT

14 months

ENGAGEMENT

1

PORTAL

3 dp

PRECISION

What we delivered

One system covering customers, job orders, exchange, invoicing, worker accounts, gold movement, stock, profit and loss, and reporting. The first version went live in October 2025, followed by successive module and enhancement releases through September 2026.

Where it runs

A mobile-compatible web application, used at the counter, on the workshop floor and from a phone away from the shop, with the same figures in every place.

FACTS

THE CLIENT

Where one gram is real money

MRS Chains runs a gold jewellery business covering making, job work and retail. In this trade two things have to be tracked at all times: **money and gold.**

Gold comes into the business in many ways. Customers exchange old gold. Scrap arrives. Job orders come in. Old ornaments are traded back. It leaves in just as many ways: issued to workers for making jewellery, turned into finished pieces, returned to customers, lost as wastage, or held in stock.

Every time gold moves, its **weight and purity can change.** One gram miscounted is real money gone. Keeping the gold count accurate is the same thing as keeping the business profitable.

Which makes the reporting problem a business problem

A business that cannot state its gold position on demand cannot price confidently, settle with workers cleanly, or know whether a month was profitable until long after it ended.

Gold in

Customer exchanges · old gold · scrap · job order intake · returns from workers

Gold out

Issued to workers · finished pieces sold · returned to customers · job loss · wastage

What changes at every step

Gross weight, purity percentage and pure weight. Get the conversion wrong once and every number downstream of it is wrong too.

And it happens all day

Several staff enter transactions across the counter, the workbench and the back office, every working day, on gold that has already changed hands more than once.

THE PROBLEM

They needed a different system, not improvements

MRS Chains already had software. It offered a narrow set of basic functions, and staff worked around the gaps every day.

- **No profit and loss tracking.** The existing system could not tell the business whether it was making or losing gold. For a gold business, that is the most important number of all.
- **No stock tracking.** It did not show how much gold the business was holding at any moment, whether in boxes, in finished jewellery, or in production.
- **The parts did not talk to each other.** Job orders, workers, exchanges and finished stock were tracked separately. Every time gold moved between them, someone carried the numbers across by hand.
- **Worker accounts were hard to settle.** Gold issued to a karigar comes back as finished pieces, plus loss, plus wastage, plus a balance still held. Checking what each worker owed took a long time, and often led to disagreements.
- **Exchanges had no proper record.** Regular, credit and advance exchanges each affect a customer balance differently. The existing system had no way to sort them or check them later.
- **No reports of any kind.** There was no reporting built in at all, so even a simple answer meant working through registers by hand, often taking hours, by which time the moment the answer was needed for had usually passed.
- **No record of who did what.** Several staff members enter transactions every day, but there was no way to see who entered what, or when.
- **Compliance handled outside the system.** HUID codes, GST invoices, gold rates by purity and barcodes for finished items were all handled outside the system.

So MRS Chains did not need small improvements to the existing system. They needed a new one covering the whole operation: customers, job orders, exchange, invoicing, worker accounts, gold movement, stock, profit and loss, and reports.

THE BRIEF

What we set out to build

Techno Tackle was asked to build one mobile-compatible web system that would do the following.

- 1 Keep one accurate, live record of all pure gold across the business.
- 2 Convert gross weight to pure weight automatically using purity percentage, with no manual maths.
- 3 Track gold given to and returned by each worker, job by job, including loss and wastage.
- 4 Manage customer exchanges with running balances, sorted by type.
- 5 Produce a daily closing balance and profit or loss report, measured in grams.
- 6 Give different access levels to different staff, with sensitive actions restricted.
- 7 Record who entered every transaction.
- 8 Handle billing and compliance: GST invoices, HUID, gold rates, barcodes and savings schemes.

WHAT WE BUILT · FOUNDATIONS

Entered once, reused everywhere

Every part of the system draws on the same core records, so nothing is retyped or comes out differently twice.

Customers

Name, phone and status, searchable, with every record showing who added it.

Invoice customers

Billing is stricter than counter work, so a fuller profile is kept for invoicing alone. The daily list stays fast.

Workers (Labour Master)

A directory of every karigar and their skill. Every worker screen draws from it.

Products

One shared list, so a job order, a tag and an invoice describe the same item the same way.

mrsgoldchainrr.in

Customer Add Note admin Logout

All Customers 0 Selected Mark as Active Mark as Inactive NEW

First Name	Last Name	Mobile	Status	Added By	Action
Ganesh			Active	-	Edit Delete
Paveer			Active	-	Edit Delete
Prem			Active	-	Edit Delete
Rajakumaran			Active	-	Edit Delete
sarif			Active	-	Edit Delete
Varatharajan			Active	-	Edit Delete
NAGARAJ			Active	-	Edit Delete

Customer master. Contact numbers redacted for publication.

mrsgoldchainrr.in

Product Add Note admin Logout

Name	Added By	Status	Action
pattakundu	admin	Active	Edit Delete
om dollar chain	admin	Active	Edit Delete
openable kada	admin	Active	Edit Delete
pearl mala	admin	Active	Edit Delete
UNBOXED ITEMS	admin	Active	Edit Delete

Product master, sitting behind job orders, tags and invoices alike.

WHAT WE BUILT · THE COUNTER

Job order and exchange

Job Order

Where customer work begins. Staff pick the customer, set date and time, and record gold details for every item in the lot: item type, weight and purity, adding or removing items as needed for a mixed-lot intake. Past orders can be searched and adjusted, and an order can be saved, or saved and printed as a receipt on the spot.

Job order intake, built for mixed lots.

Exchange

The counter's single stop for anything involving gold changing hands. In one visit staff can record gold a customer brings in, take a cash payment against the day's gold price, and handle a product traded in for its value, each weighed and priced on its own terms with pure weight worked out automatically. It closes as one transaction rather than three entries to reconcile later.

Every exchange is marked Regular, Credit or Advance, which decides how it affects the customer balance.

WHAT WE BUILT · WORKER ACCOUNTS

What does each worker owe, right now?

Worker Accounts exists to answer a question that used to take real effort to answer.

Every time gold is issued to a worker, the system follows it through the whole cycle: what went out, what came back as finished work, what was lost, what was recovered and what is still outstanding. The full picture for each issue sits in one place, with any balance owed flagged. Across the whole book the same figures roll up into live totals, so management can see how much gold is out with workers without waiting for anyone to add it up.

Traceable and defensible

Because worker accounts are often the subject of disagreement, any entry can be searched, opened in full, formally approved, exported or printed, and revisited even after it is old or removed. Nothing is settled on memory.

The eight totals it tracks

- Total Input Gold — gold given to workers
- Total Share Gold — gold under shared arrangements
- Total LT Gold — gold currently out for tasks
- Total Job Loss — gold lost during work
- Total Deducted — amount already recovered
- Total Bal-Gold — amount still outstanding
- Total Fin-return — final gold received back
- Pending GHand — gold still pending in hand

The screenshot shows the 'Labour Admin' interface for 'mrsgoldchainrr.in'. It features a 'Gold Details' section with summary metrics and a table of worker accounts. The table has columns for Input Gold, Purity (%), Unique Id, Job Loss, Deducted, Balance, Final return, and Created At. The 'Balance' column is highlighted in red for rows where the balance is outstanding.

Input Gold	Purity (%)	Unique Id	Job Loss	Deducted	Balance	Final return	Created At	
balaji								
LT	Purity	Unique Id	Job Loss	Deducted	Balance	Final return	21 Sept pm 2	✓
HR								
RTS								
gold								
LT								✓

Live worker totals across the whole book, with outstanding balances flagged in red at row level.

WHAT WE BUILT · WORKER TASKS

One number instead of an argument

Worker Tasks links a task to shared gold, a profit-and-loss box, a customer, a worker and a weight, so a single task carries every reference it needs rather than pointing at a register somewhere else.

Built-in loss calculator

The screen includes a calculator that works out the pure gold lost or wasted during production, based on up to three production weight and wastage entries. This replaces a manual, back-and-forth calculation with one clear, consistent number that both sides can see.

BEFORE

Loss and wastage worked out by hand, differently by different people, and disputed afterwards.

AFTER

One calculation, applied the same way every time, stored against the task with the working visible.

Worker task entry, linking gold, box, customer, worker and weight in a single record.

WHAT WE BUILT · RECONCILIATION

Count the gold. Check the system. See the gap.

Profit and Loss lets staff check the gold they can physically count against what the system says they should have, box by box, and see at once whether the two match.

Every box, a box of chains or a box of zinc-mixed scrap, is its own line. Everything that happens to it is gathered in one place: gold added, gold returned through an exchange, a manual correction, gold sent for worker tasks. The same information rolls up into business-wide totals, plus a **Difference** figure that flags the moment counted gold stops matching the system.

Closing locks the number

Once a box is checked and confirmed, staff close it, singly or in batches, which locks its figures for the period. The business gets a verified checkpoint to work forward from instead of an ever-shifting total.

And it decides who may move gold

Because this screen covers the most sensitive actions in the system, management picks which staff can reach each one, and can change that at any time.

Gold box details, with per-action permissions set at the top of the same screen and the live Difference figure alongside the totals.

THE CENTREPIECE

Are we up or down on gold?

This is the part that answers the question the old system never could. It is the biggest achievement of the whole build: a daily, checkable profit-and-loss report in grams.

mrsgoldchainrr.in

Gold Exchange Add Note admin Logout

Profit / Loss Check
Each active box shown individually - purity converts that box's own net weight to pure gold.

Opening Gold Balance: 1gm

#	Box	Gross Weight (Gold + Box)	Box Weight	Net Weight	Purity (%)	Pure Gold Weight
1					e.g. 91.60	
2	4-savi sathe bc				e.g. 91.60	
3	5-minnuchain kod				e.g. 91.60	
4	6-kothuballs				e.g. 91.60	
5	7-zinc				e.g. 91.60	
6	plain balls				e.g. 91.60	
7					e.g. 91.60	
Total Pure Gold Weight						
Labour Task List - Pure Weight at close						
Pending tasks that existed before the last Close & Save - info only, not added to Total						
Labour Task List - Pure Weight (+) after close						
Labour Admin - Unshared Gold Pure (+)						
Labour Admin - Share Balance Gold Pure (+)						
Labour Admin - Balance Gold (+)						
Labour Admin Testing - Pure (+)						
Labour Admin Hand Return - Ohand - Pure (+)						
Total (Initial + Total Pure Gold Weight + Labour)						

Gold Exchange. Each active box is listed with gross weight, box weight, net weight and purity, converted to pure gold, then labour and exchange movements are added and subtracted beneath.

Opening balance, locked

Set once, then locked. It cannot be edited or deleted, only formally reset. If the opening number could change, none of the numbers after it would mean anything.

Manual entries need a reason

Set Hand Gold allows manual add and deduct entries, but only with a weight, a purity and a written reason. Nothing is adjusted without an explanation attached.

Every figure shows its working

Each number in the report carries its own calculation, so it can be checked and explained without digging into the system. A report can be printed for any chosen date.

THE CENTREPIECE

How the closing figure is built

Everything below is added to or subtracted from the locked opening balance. The result is a closing balance and a final profit or loss figure, in grams, clearly marked as one or the other.

Active boxes

Gross weight, box weight, net weight and purity per box, converted into pure gold.

Worker task gold

Split into pending, shown for information only, and confirmed, which counts.

Worker balances

Unshared, shared and job loss, carried in from the worker book.

Exchange gold

Returned or received, split the same pending-and-confirmed way.

Wastage and returns

Wastage, plus weight coming back from returns.

Manual hand gold

Any add or deduct entry made by hand, each with its written reason.

Pending and confirmed are kept apart

Transactions still in progress from before the last closing are shown for information but are not counted in the total, so nothing is ever counted twice.

Compared against the locked opening

The total is measured against the opening balance that cannot be edited. That is what makes the closing figure meaningful rather than circular.

Printable for any date

The report can be printed for any chosen date, showing the opening balance, every movement, the closing balance and the profit or loss in grams.

WHAT WE BUILT · BILLING AND COMPLIANCE

Priced the same way, by whoever is at the counter

Product Tags

Gold rates by purity (24K, 22K, 18K, 14K, 9K) and tax percentages are set once, centrally, so a piece is never priced differently depending on who is pricing it. Each finished piece also gets its own identity: HUID hallmark code, seal, weight, quality and a printable barcode. Named discounts, as a percentage or a fixed amount, are set up in advance and applied at billing time rather than negotiated at the counter.

Product tags carrying HUID, seal, weight, quality and a printable barcode per piece.

Invoice

A sale becomes a GST-ready bill without slowing the counter down. Staff pick the customer and the pieces; the system applies the correct rates, taxes and compliance details. Several items can be billed together, and any past invoice can be found by number, name or phone and reprinted on demand, so the business is never dependent on a customer keeping their paper copy safe. A customer enrolled in the savings scheme can settle part of the bill directly against it, at the counter.

Invoice register, searchable and reprintable. Contact numbers redacted for publication.

WHAT WE BUILT · CUSTOMER SCHEMES

A saving commitment the business actually runs

The screenshot shows the 'Scheme' management interface for 'mrsgoldchainrr.in'. It includes a 'Current Gold Rate' input field with an 'Update' button. Below is the 'MRS CHAINS - FLEXI GOLD WEIGHT SCHEME' section with fields for 'Select Customer', 'Monthly Amount', 'Duration (Months)', and 'Start Date', followed by a 'Create Scheme' button. The 'Scheme List' section features filters for 'Customer', 'From Date', 'To Date', 'Status', and 'Payment Status', with 'Filter' and 'Reset' buttons. A 'Send To Selected Customers' button is also present. The main table displays a list of schemes with columns: Sno, Unique Id, Customer, Monthly, Duration, Total Paid, Total Gold(g), Date, and Action. The table contains three rows of data, with the first two rows having red backgrounds and the third having a white background. Each row has a set of action buttons: View, Pay, Overdue, Print, Wa, Share, Discount, and Delete.

Sno	Unique Id	Customer	Monthly	Duration	Total Paid	Total Gold(g)	Date	Action
1		Rajesh kumar		12				View Pay Overdue Print Wa Share Discount Delete
2		suguna		12				View Pay Overdue Print Wa Share Discount Delete
3		Ravathi Tech		12				View Pay Print Wa Share Discount Delete

The scheme register. Each enrolment shows monthly amount, duration, total paid, accumulated gold and status, with overdue enrolments flagged.

A customer enrolls in the MRS Chains Flexi Gold Weight Scheme with a monthly amount, a duration and a start date. From then on, every scheme shows exactly where it stands: how much has been paid, how much gold it has accumulated, and whether it is on track, overdue or completed.

Everything from one place

Staff can record a payment, print a statement, share it with the customer directly, or apply a discount, without moving between screens.

And it is spendable

Because a customer can settle part of a bill against their scheme at the counter, the scheme stops being a promise on paper and becomes something the customer can actually use.

SCHEMES

WHAT WE BUILT · OVERSIGHT

From no reports at all, to a report for the question being asked

Activity Report

From Date & Time: To Date & Time: Admins: Add Note admin Logout

Search: Filter All Modules: All

Submit Clear Show Filtered Data

Sno	Time	Menu	Id	Customer	Labour	Added By	Entry
1	AM	Labour Task		MRS RAJESH	BAPPA	PRVN	Add: Final Weight: Box Unique Id: Admin Unique Id: 0
2	AM	Labour Task		MRS RAJESH	INSIDE CASTING	admin	Final Return: Com pleted
3	AM	Labour Task		Rajakumaran	INSIDE CASTING	admin	Final Return: pleted

Activity report. Every action in plain language, with the working shown, searchable by date, staff member, keyword or module.

Labour Report

Filter: Last 30 Days Select Labour: Submit Print

Task Id	Unique Id	Order Date	Customer Name	Job Loss	Prod Wastage	Prod Weight	Status
		AM	MRS RAJESH				Settled
		AM	RKR				Settled
		AM	MRS RAJESH				Settled
		PM	MRS RAJESH				Settled

Labour report. Job loss, wastage and weight produced, by task and by date.

Exchange Report

Filter: Last 7 Days Cash Report: Cash Report Submit Clear

Exchange Id	Order Date	Customer Name	Wastage	Status
		OWJ JEWELLERS		Completed
		Revathi-test-test test		Completed
		sambath		Completed
		RANJITH		Completed
		GOWTHAM		Completed
		gmik		Completed
		sakumar		Completed

Exchange report. What came in and went out, with a separate cash summary for reconciling the till. Contact numbers redacted.

User list and permissions

A role sets the baseline, then management chooses exactly which parts of the business each person can reach. Two Sub-Admins can hold entirely different views of the system.

Consolidated activity

Management's morning briefing: gold in, gold out, cash, wastage and worker totals for a period, with the full detail sitting underneath.

Labour report

Worker performance measured rather than judged by reputation, so a pattern such as consistently high wastage becomes visible instead of anecdotal.

Notes

Operational context kept inside the system, so it travels with the work instead of living on a slip of paper at the counter.

DESIGN DECISIONS

The choices that shaped the system

Three decimal places

A small rounding difference adds up fast across thousands of transactions, so precision was treated as essential.

No manual purity conversion

Wherever weight and purity are entered, pure gold is worked out automatically, removing the biggest source of error.

A locked opening balance

It is set once and can only be reset formally, which protects the accuracy of every number that follows it.

Pending kept from confirmed

Transactions in progress from before the last closing are shown for information but not counted, so nothing counts twice.

One ID follows the gold

A single searchable ID connects a piece of gold across job orders, worker accounts, tasks, profit and loss and tags.

Every entry shows its author

Added by and settled by travel with the record itself, so accountability never depends on a separate lookup.

Adjustments need a reason

Any manual entry, such as hand gold or a manual weight, requires a written reason to be entered alongside it.

Printing built in throughout

Save and print, PDF downloads and printable barcodes are normal workflow, because the business still runs on slips.

Access is layered

A role sets the baseline, permissions decide what a person sees, and a further layer restricts sensitive actions.

OUTCOMES

What the platform delivers

A daily result the business can rely on

A report can be printed for any date showing the opening balance, every movement, the closing balance and the result in grams.

Profit and loss in gold, not just money

A clear, gram-based profit or loss figure, which the previous system could not produce at all.

Worker accounts that are easy to settle

Gold given, job loss, deductions, balance and final return, tracked together per worker with balances flagged.

No more manual calculations

Converting gross weight to pure weight happens automatically, every time.

Full accountability

Every entry traces back to the person who made it, checkable by date, staff or type.

Sensitive actions restricted

Only named staff can reach functions such as Advance Gold or Exchange Gold, and a user sees only what their role requires.

Billing and compliance in one place

HUID codes, gold rates, tax, GST invoicing and barcodes, all inside the same system.

Customer schemes properly managed

Enrolment, status, payments and customer messaging, tracked and actioned from the system.

Mismatches caught early

The Difference indicator flags any gap between counted and recorded gold as soon as it appears, not weeks later.

CLIENT RESULTS

What changed, in the client's words

What changed for MRS Chains shows up less in any single feature and more in how the day-to-day work now feels. The following is what the client has reported back to us.

Hours of manual tracking, replaced by one live view

Knowing how much gold was on hand, or how much sat with which worker, used to mean working through several registers by hand. That now happens inside the system, and the answer is there the moment it is needed.

Every transaction has a clear owner

Previously, if a number did not add up there was no reliable way to trace it back to who was involved. Every entry is now tied to the person who made it, so a discrepancy can be resolved rather than becoming a standing disagreement.

From no reporting at all, to a full picture on demand

MRS Chains previously had no reports of any kind. A complete set now covers daily activity, exchange transactions, worker performance and the gold closing position, giving a different angle for whatever question is being asked.

Run from the shop, or from anywhere

Because the platform works as well on a phone as it does at the counter, none of this is tied to being physically on site. Management can check where the business stands from wherever they are.

Taken together, this is what MRS Chains has reported back

Less time spent tracking things down, more information available when it is needed, and a business that no longer has to be watched constantly to be trusted.

HOW WE WORKED

Delivery approach

APPLICATION TYPE	Mobile-compatible web application, consistent across desktop, tablet and mobile
ARCHITECTURE	MVC (Model-View-Controller)
APPROACH	Iterative and incremental. Each module or enhancement moved through development, testing, client validation and production deployment
DEPLOYMENT	Phased. Initial version live October 2025, successive releases through September 2026
DURATION	August 2025 to September 2026, 14 months
PORTALS DELIVERED	1
MANAGEMENT	Techno Tackle's in-house Project Management System
CURRENT STATUS	All planned modules deployed. Platform under maintenance and support, with changes and enhancements delivered as required

WHY TECHNO TACKLE

This was not a matter of setting up an off-the-shelf product.

It required understanding how gold actually moves through a jewellery business: the difference between job loss and wastage, why an opening balance must be locked, why an in-progress exchange should be visible but not yet counted, and why settling a worker's account is as much a conversation as it is a calculation.

Techno Tackle worked closely with MRS Chains's staff and management, built the system module by module, and shaped it around the client's real way of working rather than forcing a generic template onto them. The result fits how the business actually runs, and covers the whole operation rather than part of it.

Built to grow

A flexible architecture leaves the platform ready to support future growth and enhancements.

LET'S TALK

Interested in a similar solution?

Looking for a trusted technology partner? Connect with us to discuss your business needs and how we can help bring your ideas to life.

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Coimbatore, Tamil Nadu, India

What we do

Custom software engineering, application development and maintenance, IT staff augmentation, and digital marketing.

Track record

11+ years, 400+ clients, 1,000+ projects and 300+ contracts delivered across 10+ countries.

How we work

Iterative delivery managed in our own project management system, with client validation at every release.

4.8★ [Clutch · 8 verified reviews](#)

4.8★ [Google · 120+ reviews](#)

ISO 27001:2022 Certified

We look forward to collaborating with you.