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CASE STUDY BOOKLET

Gold Jewellery Case Studies

Scan to view all our case studies

6 case studies · 5 clients

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Mobile App, Website and Admin Panel
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CAPABILITIES

What we have built for gold jewellery businesses

Gold and stock tracking
Pure weight, stock ledgers and gold profit or loss

Factory job cards
Department-wise issue, receipt and wastage

Worker and workstation accounts
Gold given, returned and outstanding

Billing and ledgers
GST invoices, advances, customer and cash ledgers

Payroll and attendance
Fingerprint attendance, pay rules and rewards

Order apps and retail
Mobile order apps, barcodes and showroom billing

11+	400+	4.8	4.8	ISO
years	clients	Clutch rating	Google rating	27001:2022

A TECHNOTACKLE CASE STUDY BOOKLET

Sri RAK Jewellers

Digitising Die Management, Factory Production and Retail

A Coimbatore-based gold jewellery manufacturer, wholesaler and retailer, established in 1996, with its own showroom, Alankrit by RAK.

Gold jewellery manufacturing, wholesale and retail

Coimbatore

The challenge

- An older, freelancer-built application with limited features and unsatisfactory support
- Thousands of dies and moulds tracked by hand, with no clear record of repairs
- Orders and outsourced work kept in registers, with no daily view of what was due
- Gold given to workers was difficult to reconcile at the end of each day
- Manual tagging, billing and stock checks at the counter, and no ready reports

The solution

Three applications for three operations

After a proof of concept in 2018, the full project began in 2019 to build one application around each part of RAK's business.

Tooling
Die Application
Dies, moulds and machines, including repair and maintenance.

Production
Factory Application
Every order from receipt to delivery, including work given to outside vendors.

Retail
Shop Application
Alankrit stock, tagging, billing and trade with other shops.

> The Die and Factory applications are linked, so the factory can check which die to use for each order.

First live	Die Oct 2019 · Factory Jul 2020 · Shop Sep 2020
Tech stack	PHP, Yii2 · MySQL · HTML, CSS, JavaScript

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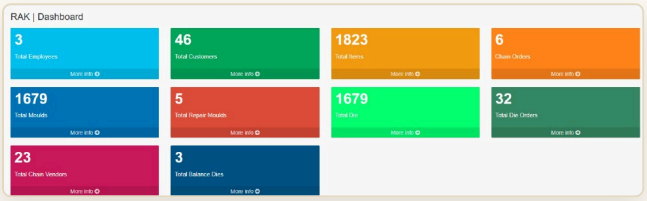
At a glance

1,600+
dies with full details and photos

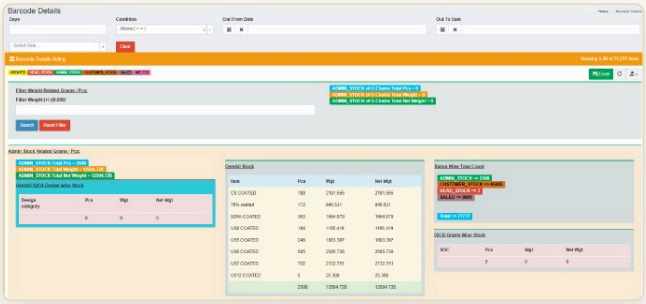
4,800+
orders delivered, over 82,000 grams

65,000+
jewellery pieces tracked by barcode

500+
retailers and customers with live balances



Die dashboard. Dies, moulds, die orders and moulds out for repair.



Barcode Details. Every barcode by status, from created to sold.

Results

- **Tooling under control:** dies and machines found in moments, nothing lost during repair
- **Gold accounted for:** every gram given out is tracked and gaps are caught the same day
- **Orders on time:** a daily view of what is due, with overdue alerts
- **Faster retail:** barcoded stock, quick billing and controlled credit at Alankrit

Testimonial

Watch the video



We struggled with freelancers who failed to deliver user-friendly results. Techno Tackle designed simple and intuitive software that even our skilled labourers could easily use. In seven years, we have completed nearly ten projects with their seamless support.

Mr. Balram Kumar · Partner, Sri RAK Jewellers

Sri RAK Jewellers

Payroll and Attendance Management

A custom attendance and payroll system for a workforce of factory staff, skilled craftsmen, sales and office staff.

Gold jewellery manufacturing, wholesale and retail

Coimbatore

The challenge

Attendance and payroll were handled entirely by hand

- Daily attendance, late arrivals and leave compiled manually at month end
- Each payroll cycle took several days of effort
- Manual calculation of leave, overtime and deductions risked salary errors
- Advances and deductions tracked separately and adjusted by hand
- Employee records spread across registers and files, with no consolidated reports
- The process depended on the staff who knew it

The solution

One system for attendance, pay and rewards

A web-based platform built around the way RAK works. Fingerprint attendance, staff records, leave, pay rules, performance rewards and cash payments run in one place, and calculations that once took days now happen automatically.

40+	9	1	Dec 2022 to Apr 2023
screens designed and developed	functional areas in one system	admin portal	project duration

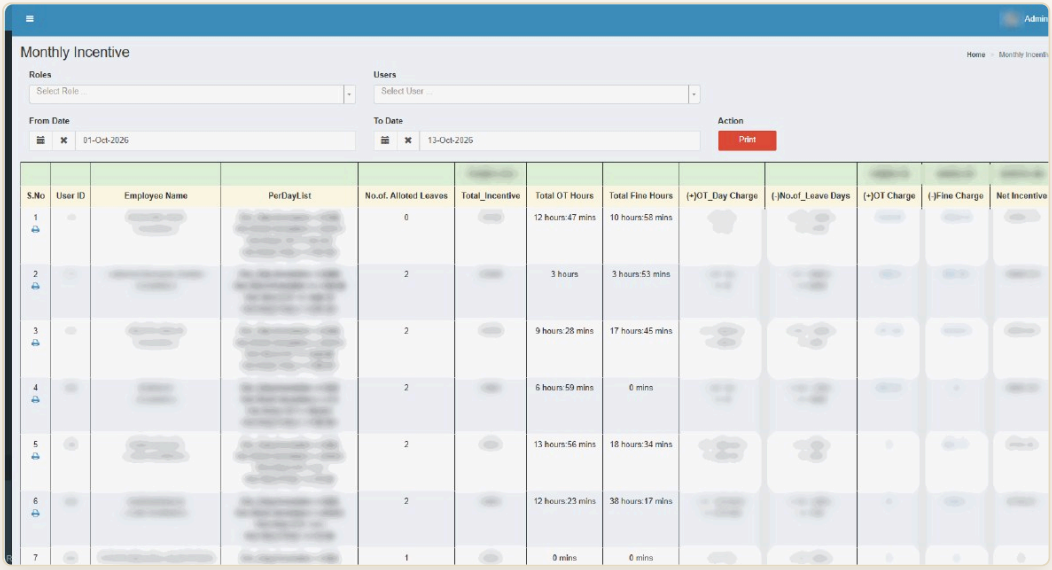
Tech stack	PHP, Yii2 · MySQL · HTML, CSS, JavaScript
Status	Live and in daily use, under maintenance and support

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What we built

Nine connected areas

1. **Live workforce dashboard**
2. **Fingerprint attendance**
3. **Employee profiles**
4. **Pay rules per employee**
5. **Leave management**
6. **Performance-linked rewards**
7. **Automatic payroll**
8. **Cash and settlements**
9. **Reports and policies**



Monthly pay screen. Overtime, fines, leave and net pay per employee. Names and amounts blurred.

Results

- **Automatic payroll:** monthly pay for the whole workforce calculated from attendance
- **Rewards tied to performance:** daily ratings feed bonus, increment and welfare
- **Answers on demand:** attendance, leave, pay and cash in one system
- **No manual sums:** overtime, fines and leave calculated by the system
- **Control over cash:** every payment, expense and balance is traceable
- **Less dependence on individuals:** operations continue whoever is on duty

Kowsik Jewellers

Gold Factory & Jewellery Management System

A Coimbatore-based gold jewellery maker and retailer offering custom remodelling, in-house manufacturing through its own workshop departments, bulk production for retailers and direct retail sales.

Gold jewellery making, job work and retail

Coimbatore, Tamil Nadu

The challenge

Spreadsheets and manual records could not keep pace

- No single source of truth across spreadsheets
- No real-time view of gold movement, production or dues
- Gold from customers, suppliers and retail partners was hard to trace
- Work across casting, filing, stone setting, buffing and texturing was not tracked stage by stage
- Stock, billing, advances and dues were tracked and calculated manually
- No easy way to report on sales, stock, dues or department performance

The solution

One platform built around three things

1 Job cards through every department

Each order's gold is followed through each stage, with issued weight, received weight and wastage recorded.

2 Customer gold kept separate

Gold brought in by customers is accounted for apart from company stock.

3 Bulk orders for retailers

Large, multi-item orders run through the same traceable workflow.

How an order moves through the factory

Casting → Filing → Stone Setting → Buffing →

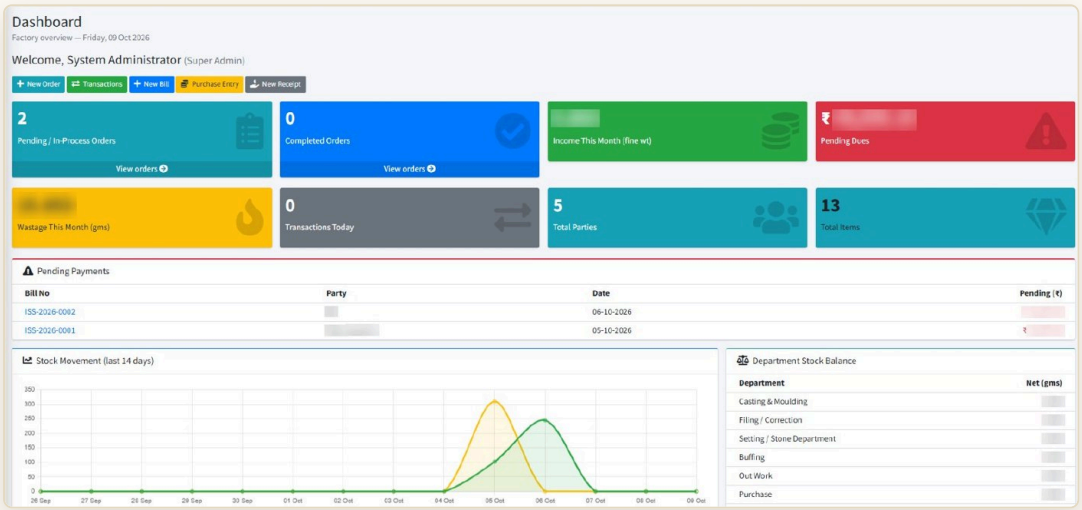
Texturing or outsourced work, where applicable

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At a glance

50+	9	1	4 months
screens designed and developed	solution areas covered	web application portal	July to October 2026

Dashboard · Master Data · Orders · Job Cards · Billing · Advance Receipts · Ledgers & Reports · Stock · Administration



Dashboard. Orders, dues, wastage, a 14-day stock movement chart and department balances. Client data blurred.

Business impact

- **Complete gold traceability** from purchase or customer receipt to final delivery
- **Automated billing:** weight, purity and charges calculated, GST-compliant invoices
- **Advances and dues** in cash, gold or both, adjusted against bills automatically
- **Department accountability:** issued weight, received weight and wastage at every stage
- **Live margin insight:** gold profit and total margin shown on every bill
- **Audit-ready records** with a voucher trail for every transaction

Tech stack	PHP 8 · Laravel 12 · MySQL 8
Status	All planned modules deployed; under maintenance and support

Ellappan Jewellers

Replacing manual registers with real-time gold and cash control

A Coimbatore-based maker of made-to-order gold jewellery for individual customers and retailers. Customers can bring their own gold for remodelling or choose jewellery made from the company's gold.

Gold jewellery making, job work and retail Coimbatore, Tamil Nadu

Every order carries one of three gold types:

Own Gold | Customer Gold | Workstation Gold

The challenge

Orders, gold and cash were tracked in notebooks

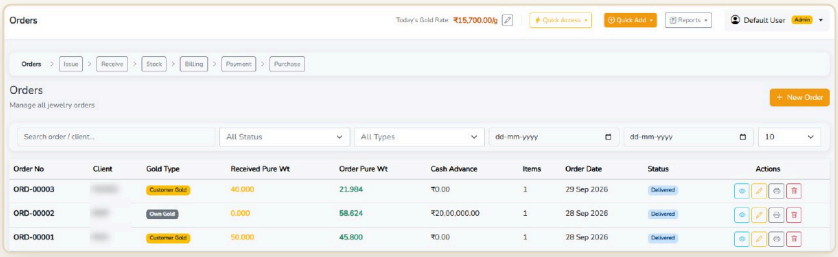
- Hard to keep accurate records of orders, payments, billing, stock and purchases
- Gold moving to and from third-party manufacturing units had to be tracked by hand
- No organised customer-wise transaction and payment records
- No quick view of orders, pending work and completed transactions
- Repeated data entry and avoidable human errors

The solution

One connected system in place of the notebooks

A custom web application that brings orders, workstation issue and receipt, stock, purchases, products, billing, payments and ledgers into one place, following the order of work:

Orders › Issue › Receive › Stock › Billing › Payment › Purchase



Orders list. Gold type, weights, cash advance and status for each order. Names blurred.

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At a glance

50+
screens designed and developed

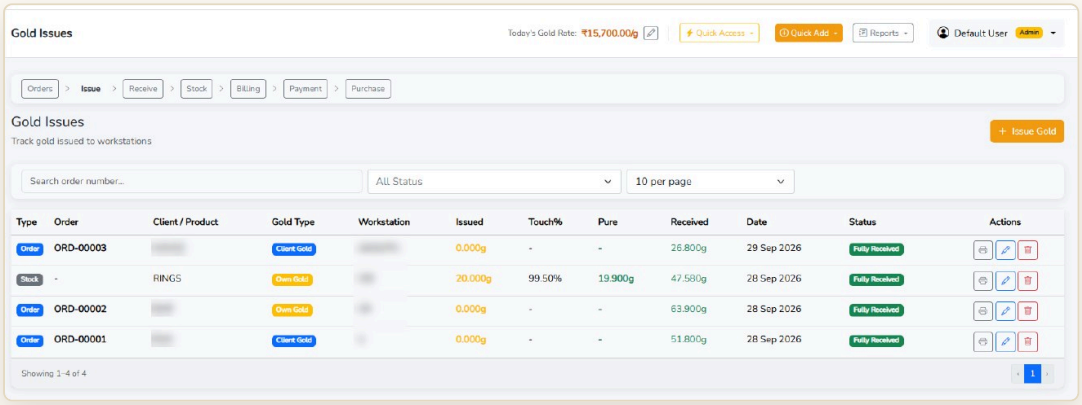
10
core business modules

4
built-in business reports

1
portal, single deployment

Key features

- **Every order tracked** from intake to delivery, with surplus or deficit shown at once
- **Billing in one flow:** settle in cash, gold or both at the day's rate
- **Workstation gold on record:** issue and receipt reconciled per workstation
- **Customer and cash ledgers** with running balances, ready to print or export



Gold Issues register. Gold sent to workstations, with status for each issue. Names blurred.

Business impact

- **Fewer errors:** digital records replaced error-prone notebooks
- **Faster billing** with automated calculations and flexible settlement
- **Real-time stock control** for purchasing and fulfilment
- **Full order visibility** with real-time status
- **Manufacturing accountability** with third-party units
- **Auditable receivables** and cash flow records

Tech stack	Laravel 12 · MySQL · MVC architecture
Duration	May 2026 to October 2026

MRS Chains

A simple, accurate system to track gold and profit

A gold jewellery business covering making, job work and retail, where money and gold have to be tracked at all times.

Gold jewellery making, job work and retail

mrsgoldchainrr.in

The problem

A narrow, disconnected setup

- No way to tell whether the business was making or losing gold
- No live view of how much gold it held, in boxes, finished jewellery or production
- Job orders, workers, exchanges and stock tracked separately
- Worker accounts took a long time to settle and often led to disagreements
- No reports, and no record of who entered what

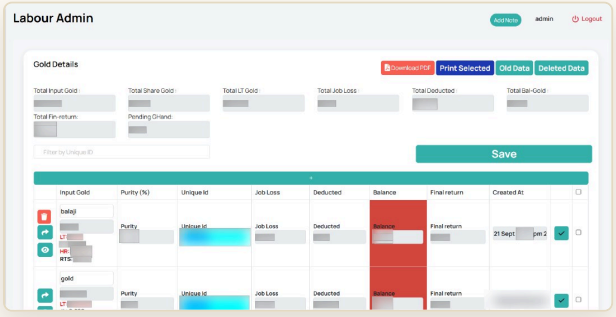
The brief

One mobile-compatible web system to:

- Keep one live record of all pure gold
- Produce a daily closing balance and profit or loss in grams
- Track gold given to and returned by each worker
- Restrict sensitive actions by role and log who entered every transaction

Worker accounts

What does each worker owe, right now?



Live worker totals, with outstanding balances flagged.

Each issue of gold is followed from what went out to what came back, was lost or is still outstanding. Any entry can be searched, approved, exported or printed.

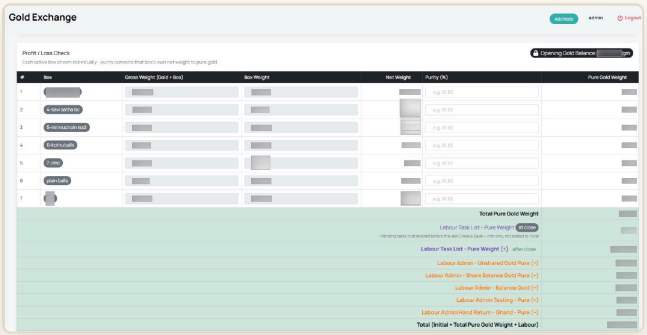
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At a glance

50+	14 months	1	3 dp
screens built	Aug 2025 to Sep 2026	portal	precision

THE CENTREPIECE

Are we up or down on gold?



Gold Exchange. Each box converted to pure gold, with movements added and subtracted beneath.

- A daily, checkable profit and loss report in grams
- Opening balance locked once set
- Manual entries need a weight, purity and written reason
- Every figure shows its working and prints for any date

What changed, as reported by the client

One live view

Gold on hand and gold with each worker are answered inside the system, the moment they are needed.

A clear owner for every entry

Discrepancies can be resolved instead of becoming disagreements.

Full reporting on demand

Daily activity, exchange, worker performance and gold closing position.

Run from anywhere

It works as well on a phone as at the counter.

Tech stack	Laravel · MySQL · MVC architecture
Status	Live since October 2025, under maintenance and support

Srii BJ Jewels

Jewellery order app, website and admin panel

A Coimbatore jewellery manufacturing firm with over 25 years of experience, founded by Mr. V. Ranganathan, Mr. J. Balaji and Mr. V. Senthil Kumar. It specialises in handmade gold chains, casting items, Bengali, Calcutta and Rajkot items.

Jewellery fabrication Coimbatore

The challenge

Every order was kept in a notebook

Procured gold, customer details, design patterns, order dates, delivery and rework dates, and the status of every order were all written by hand.

- High order volume took time away from designing ornaments
- Finding order details in the notebook was slow
- The client spent at least 3 to 4 hours a day referring to the notebook

The solution

An order app with an admin panel

Login
Separate logins for customers and clients

Catalogue
Customers pick designs and place orders

Orders
Progress from placement to delivery

Notifications
Push updates on every order

Profiles
Roles, and enabling or blocking users

Admin panel
Designs, orders and reports from the backend

Android · Google Play

Get the Srii BJ Jewels app
Scan the code for your phone

iPhone · App Store

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The results

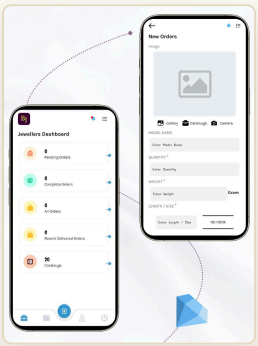
100%
data accuracy

5 to 10 sec
to view a single order

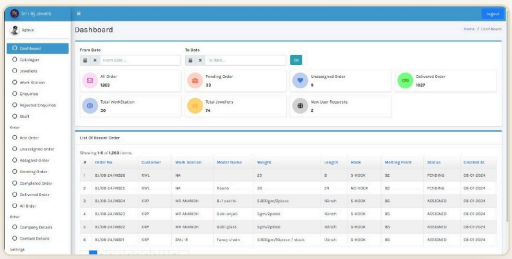
10 to 15 min
to review all daily orders, down from 3 to 4 hours

Up to 30%
higher daily productivity, as per the client

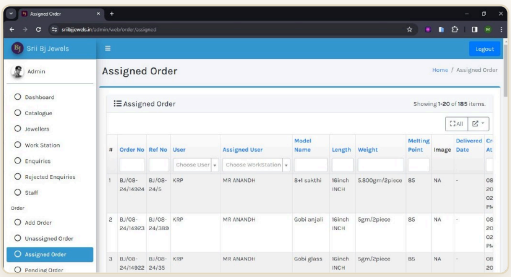
- Order data is secure: only authorised people can view, change or delete orders
- Reviewing a single order dropped from 10 minutes in the notebook to seconds in the app



App: dashboard and new order.



Admin panel: dashboard.



Admin panel: assigned orders.

Screenshots use dummy data for illustration.

Testimonial



Early we used notebooks for order tracking, after delivery of the jewelry order app my routine became very easy, more flexible. Thanks to Techno Tackle for lifting my business to the next level.

Mr Balaji · Srii BJ Jewels

Tech stack Figma · HTML · React Native · PHP · MySQL

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Read the full case study
Scan for every module, screen and detail

LET'S BUILD YOURS

Still running on registers or outdated software?

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Running a jewellery business means tracking gold, orders, stock and people every single day. If your business is still relying on registers or outdated software, Techno Tackle can help you bring it all into one clear, reliable system.

About Techno Tackle

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.

Why gold jewellery businesses work with us

- **We understand how gold moves** through casting, filing, stone setting and buffing.
- **Wastage tracked department by department,** so losses are visible where they happen.
- **Built around the client,** not generic templates.
- **Easy to use** for every level of staff, including craftsmen.

4.8 ★ Clutch
8 verified reviews

4.8 ★ Google
120+ reviews

ISO 27001:2022 certified

Talk to us

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We appreciate your interest in Techno Tackle Software Solutions and look forward to collaborating with you.