

SRI RAK JEWELLERS · COIMBATORE · EST. 1996

Digitising Die Management, Factory Production and Retail

How Techno Tackle built three custom web applications covering tooling, made-to-order manufacturing and retail for a Coimbatore gold jewellery manufacturer.



Sri RAK Jewellers

01 TOOLING

Die Application

Die, mould and machine management

1,600+

dies with full details and photos

First live Oct 2019



Linked

02 PRODUCTION

Factory Application

Order and manufacturing management

4,800+

orders delivered, totalling over 82,000 grams

First live Jul 2020

03 RETAIL

Shop Application

Alankrit retail and trade

65,000+

jewellery pieces tracked with individual barcodes

First live Sep 2020



PROJECT AT A GLANCE

Three applications, one gold jewellery business

CLIENT

Sri RAK Jewellers, Coimbatore

INDUSTRY

Gold jewellery manufacturing,
wholesale and retail

APPLICATION 1

Die Application

Die, mould and machine
management

RETAIL BRAND

Alankrit by RAK

TYPE OF SOLUTION

Custom web applications

APPLICATION 2

Factory Application

Order and manufacturing
management

PREVIOUS SYSTEM

Older application with very limited
features, built and maintained by
freelancers

ENGAGEMENT

2018 proof of concept; full project
from 2019

APPLICATION 3

Shop Application

Alankrit retail and trade

SCOPE OF WORK

Requirement study, design,
development, testing, deployment,
maintenance and support

USERS

Admin, department heads, shop staff,
factory staff

TECH STACK

HTML, CSS, JavaScript · PHP, Yii2 ·
MySQL

DEVELOPMENT TEAM

4 developers across different phases
since 2019

Current status

All three applications live and in
daily use; ongoing enhancements
delivered on client request.

CLIENT ACCOLADE



My name is Balram and I run Shri Rak Jewellers, a gold manufacturing industry where my wife and I are partners. We started as a small-scale business with a dream to grow into a full-fledged industry.

To achieve this, we needed software solutions but struggled with freelancers who failed to deliver user-friendly results. That's when I met Bala Vishnu, CEO of Techno Tackle. He and his team provided exactly what we needed, designing simple and intuitive software that even our uneducated skilled labourers could easily use.

I've been working with Techno Tackle for seven years, completing nearly ten projects with their seamless support. Hats off to Bala Vishnu and his team for their exceptional work and professionalism.

Mr. Balram Kumar

Partner, Sri RAK Jewellers

**Watch the video
testimonial**



Scan the QR code or
watch it on **YouTube**

Since 2018

working with Techno Tackle,
starting with a proof of
concept

ABOUT THE CLIENT

Sri RAK Jewellers and Alankrit by RAK

Established in 1996, Sri RAK Jewellers is a Coimbatore-based gold jewellery manufacturer, wholesaler and retailer with nearly three decades of experience in the trade. Led by Mr. Balram Kumar, the company is known for its gold chains, rings, earrings, bangles, kadas, temple jewellery and bridal sets and has built a reputation for consistent quality and dependable service.

The company also runs its own retail showroom, **Alankrit by RAK**, which offers hallmarked gold jewellery in purities ranging from 9K to 916, along with custom-made designs.

Behind this sits a large collection of dies and moulds and a factory that handles customer orders, bulk orders and outsourced work at the same time. The showroom, meanwhile, manages retail sales and trade with other jewellery shops. With tooling, production and retail running side by side, RAK needed a dedicated system for each operation.



Sri RAK Jewellers



Alankrit by RAK

Across the full jewellery value chain

- ◆ **Manufacturing:** Designs and produces gold jewellery in-house.
- ◆ **Wholesale and bulk supply:** Supplies jewellery in bulk to leading showrooms, retailers and large establishments.
- ◆ **Retail:** Sells directly to customers through the Alankrit showroom.
- ◆ **Custom orders:** Crafts jewellery to each customer's chosen design.
- ◆ **Remodelling:** Reworks and redesigns customers' existing jewellery.
- ◆ **Old gold exchange:** Lets customers exchange old jewellery for new pieces.

CHALLENGES BEFORE

A freelancer-built system and manual registers

Before partnering with Techno Tackle, Sri RAK Jewellers relied on an older application with very limited features, built and maintained by freelancers. It lacked many of the capabilities the business needed and the client was not satisfied with the support or the features delivered. As the business grew, these gaps, together with manual record-keeping, became harder to manage.

An unreliable existing system

- ◆ Limited features that did not match how the business worked
- ◆ Dependence on freelancers for every change and fix
- ◆ Slow and unsatisfactory support

Tooling

- ◆ Thousands of dies and moulds tracked by hand
- ◆ Finding a die, or knowing which design it makes, took time
- ◆ No clear record of dies or machines out for repair

Production

- ◆ Orders, bulk orders and outsourced work tracked in registers
- ◆ No daily view of what was due, what was starting and what was running late
- ◆ Choosing the right die for a new order meant searching records manually
- ◆ Gold given to workers was difficult to reconcile at the end of each day

Retail and trade

- ◆ Manual tagging and billing at the counter
- ◆ Sales to and purchases from other shops tracked separately
- ◆ Stock checks were slow and prone to errors

Management visibility

- ◆ No ready reports; information had to be compiled by hand

THE SOLUTION

Three applications for three operations

In 2018, RAK approached Techno Tackle and, at the client's request, Techno Tackle first delivered a proof of concept for one of their key requirements. Following its success, the full project began in 2019 to replace the existing setup with applications built around each of RAK's operations. Techno Tackle built three applications, each designed around one part of RAK's business:

TOOLING

Die Application

Manages the dies, moulds and machines used to make jewellery, including their repair and maintenance.

Die register · Die-to-design matching · Die makers · Repairs · QR samples · Machines

**Linked**

Die details available while processing an order

PRODUCTION

Factory Application

Manages every customer order, from the moment it is received to the moment it is delivered, including work given to outside vendors.

Orders · Work assignment · Gold issue and receipt · Night tally · Cash · Reports

RETAIL

Shop Application

Manages finished jewellery at Alankrit, from stocking and tagging to billing, trade with other shops and reporting.

Barcode tagging · Billing · Retailer credit · Gold and cash · Stock targets · Reports

The Die and Factory applications are linked: while processing an order, the factory team can check which die should be used to make the jewellery. The Shop application runs independently for Alankrit.

APPLICATION 1 · DIE APPLICATION

Die, mould and machine management

Dies are the foundation of jewellery manufacturing. Every chain, bracelet and stud begins with the right die. With over 1,600 dies, 2,000+ designs and dozens of machines, RAK needed one place to record, find and maintain them all.

One register for every die

Each die is recorded with its number, category, size, weight, photos and sketches. Dies are grouped into 18 categories, such as chain, bracelet and stud dies. Dies not yet linked to any design are clearly marked and missing die numbers are flagged automatically.

1,600+

dies with full details and photos

2,000+

designs linked to the dies that make them

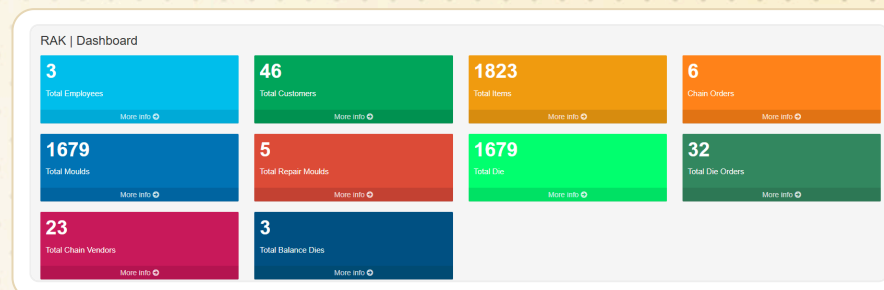
370+

sample designs with QR codes

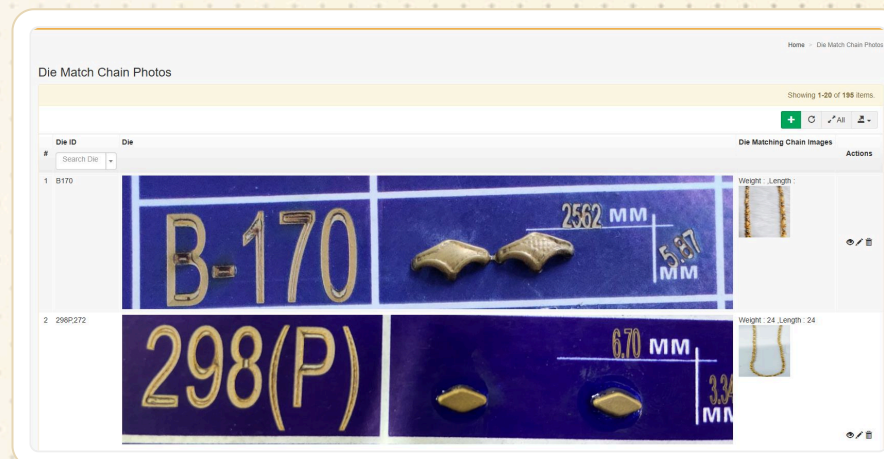
45+

machines with repair records

Die makers across India and overseas in one directory



Die dashboard. Totals for dies, moulds, items, die orders, chain vendors and moulds out for repair.



Die Match Chain Photos. Each die with the chain it produces.

APPLICATION 1 · DIE APPLICATION

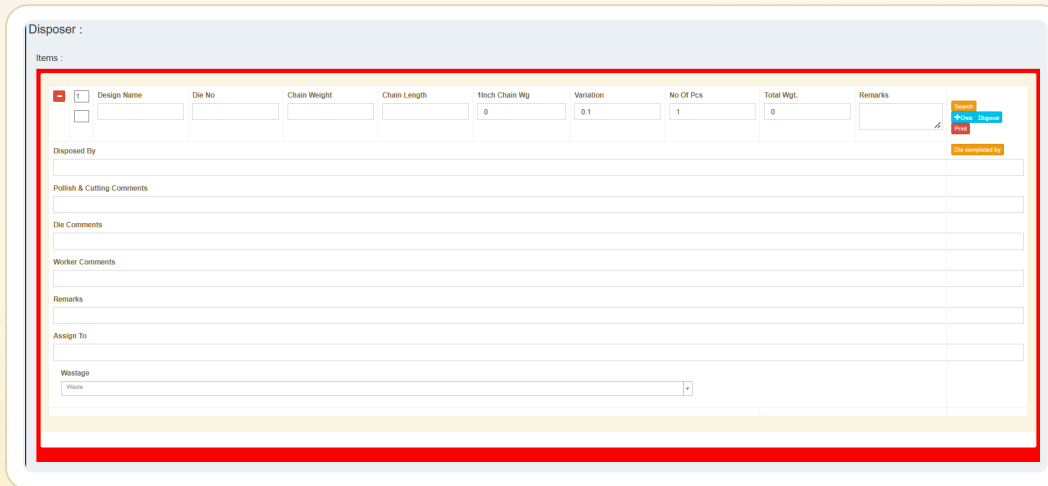
Finding the right die for every order

Matching dies to designs

Every die is shown alongside photos of the finished chain it produces, with its weight and length. Any die can be found instantly by its number.

Choosing a die for an order

Staff enter what the order needs, such as design, weight, length and number of pieces and the system finds the matching die. The die is then assigned to a worker with instructions and a slip is printed. Who assigned the die and who completed the work are both recorded.



The screenshot shows a web application interface titled "Disposer :". It contains a table with columns for Design Name, Die No, Chain Weight, Chain Length, Finch Chain Wgt, Variation, No Of Pcs, Total Wgt, and Remarks. Below the table are several text input fields labeled "Disposed By", "Polish & Cutting Comments", "Die Comments", "Worker Comments", "Remarks", "Assign To", and "Wastage". On the right side of the form, there are three buttons: "Search", "Print", and "Die completed by".

Disposer screen. Design name, die number, chain weight, length and pieces for an order item, with Search, Print and 'Die completed by' controls.

What it delivers

- ◆ One reliable record of every die, design, sample and machine, replacing manual registers
- ◆ Faster production, as the right die for any order is found in moments
- ◆ No lost dies, with missing, unlinked and pending dies flagged automatically
- ◆ Less downtime, as dies and machines under repair are tracked until they return
- ◆ Better customer service, as samples are found by size and shared instantly

APPLICATION 1 · DIE APPLICATION

Die makers, repairs, samples and machines

Die makers and deliveries

A directory of every die maker, with the dies ordered from each, the dies received and the dies still pending.

Die repairs

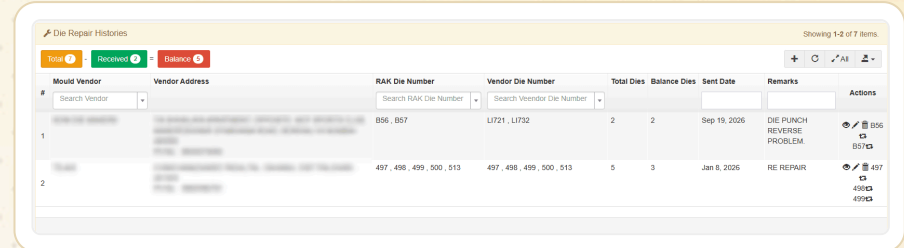
Every die sent for repair is recorded with the die maker, the date sent and the reason. Dies are marked as received when they return and dies under repair are shown as unavailable for production.

Sample designs with QR codes

Each physical sample gets a QR label with the RAK logo. Samples can be searched by weight, length or size, shared on a mobile phone, or downloaded as a PDF to send to customers. Sample stock is checked by scanning.

Machines and maintenance

Every machine is recorded with its photo, user, purpose and maintenance needs, with video guides attached. A full repair history is kept for each machine.

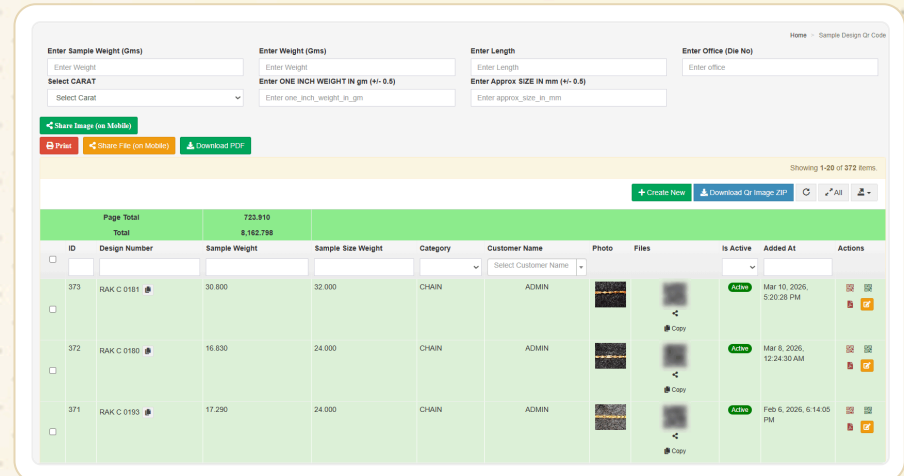


Die Repair Histories

Showing 1-2 of 7 items

#	Mould Vendor	Vendor Address	RAK Die Number	Vendor Die Number	Total Dies	Balance Dies	Sent Date	Remarks	Actions
1			B56, B57	L1721, L1732	2	2	Sep 19, 2026	DIE PUNCH REVERSE PROBLEM	B56 B57
2			497, 498, 499, 500, 513	497, 498, 499, 500, 513	5	3	Jan 8, 2026	RE REPAIR	497 498 499

Die Repair Histories. Dies sent, received and still out, per die maker. Vendor details blurred.



Enter Sample Weight (Gms)

Enter Weight (Gms)

Select CARAT

Enter Length

Enter ONE INCH WEIGHT IN gm (+/- 0.5)

Enter Approx SIZE IN mm (+/- 0.5)

Enter Office (Die No)

Enter office

Share Image (on Mobile)

Print

Share File (on Mobile)

Download PDF

Showing 1-20 of 372 items

Create New

Download QR Image ZIP

ID	Design Number	Sample Weight	Sample Size Weight	Category	Customer Name	Photo	Files	Is Active	Added At	Actions
373	RAK C 0181	30.800	32.000	CHAIN	ADMIN			Active	Mar 10, 2026, 5:20:28 PM	
372	RAK C 0180	16.630	24.000	CHAIN	ADMIN			Active	Mar 8, 2026, 12:24:30 AM	
371	RAK C 0193	17.290	24.000	CHAIN	ADMIN			Active	Feb 6, 2026, 6:14:05 PM	

Sample Design QR Code. Search, print, share on mobile or download as PDF. QR codes blurred.

APPLICATION 2 · FACTORY APPLICATION

Order and manufacturing management

The factory is the heart of Sri RAK Jewellers. Every day it receives orders from wholesale buyers, retailers and large establishments, often for hundreds of pieces at a time. Each order passes through several hands: department heads, die makers, craftsmen, polishers and, when the workload is high, outside vendors. Gold and cash move with the work at every step.

4,800+

orders delivered,
totalling over 82,000
grams of jewellery

1,400+

active orders tracked
at any time

Every party

gold and cash
balances for every
employee, vendor and
customer

Daily

gold check for every
employee and
department head

7,000+

staff movement
entries recorded

What it delivers

- ◆ Every order traceable from receipt to customer delivery
- ◆ The right die, first time, linked directly to the order
- ◆ Losses caught the same day through nightly checks
- ◆ Outsourced work tracked just like in-house work
- ◆ Realistic delivery promises, with the factory's workload visible while booking
- ◆ Every gram and every rupee accounted for
- ◆ No missed financial dues, with reminders on a calendar

Admin

Oversees the entire factory, including all departments, orders and reports.

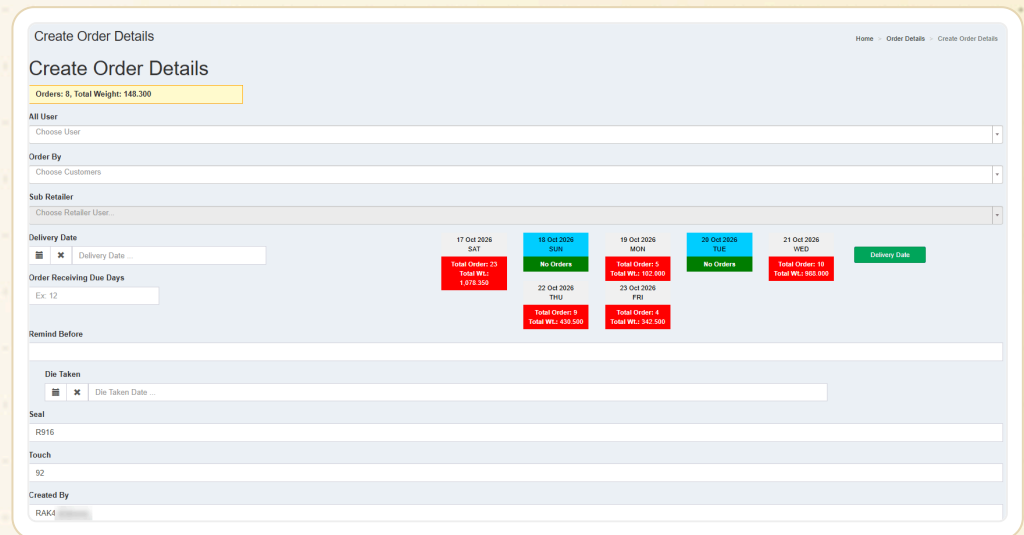
Department heads

Manage their own team day to day, covering orders, work assignment, gold issue and receipt, cash and the nightly tally.

APPLICATION 2 · FACTORY APPLICATION

The journey of an order

- 1 Order received.** The department head records the customer, delivery date, purity and full specification of each item, including weight, length, number of pieces, hook type, finishing instructions and reference photos. While choosing the delivery date, the head can see how many orders and how much weight are already due on each of the coming days, so promises match the factory's real capacity.
- 2 Choosing the right die.** The head enters the jewellery specification and the system finds the matching dies from the Die Application, with photos of each die and the chain it produces.
- 3 Assigning the work.** The order is assigned to one or more craftsmen. Large orders can be split and the system shows how much has been assigned and how much is still to be allotted. When the factory is at full capacity, work is given to outside vendors and tracked in exactly the same way.



Create Order Details

Orders: 8, Total Weight: 148.300

All User: Choose User

Order By: Choose Customers

Sub Retailer: Choose Retailer User

Delivery Date: 17 Oct 2026 (Sat), 18 Oct 2026 (Sun), 19 Oct 2026 (Mon), 20 Oct 2026 (Tue), 21 Oct 2026 (Wed), 22 Oct 2026 (Thu), 23 Oct 2026 (Fri)

Order Receiving Due Days: Ex: 12

Remind Before

Die Taken: Die Taken Date

Seal: R916

Touch: 92

Created By: RAK4

Date	Orders	Total Weight
17 Oct 2026 (Sat)	1	1,076.350
18 Oct 2026 (Sun)	0	0.000
19 Oct 2026 (Mon)	1	102.800
20 Oct 2026 (Tue)	0	0.000
21 Oct 2026 (Wed)	1	988.000
22 Oct 2026 (Thu)	0	0.000
23 Oct 2026 (Fri)	0	0.000

Create Order. The calendar on the right shows the orders and total weight already booked for each of the coming days. Staff name blurred.

APPLICATION 2 · FACTORY APPLICATION

Gold, progress and delivery, recorded at every step

- 4 Issuing and receiving gold.** Every time gold is given to a worker or vendor, or finished work comes back, the weight, purity and order are recorded. Gold can be converted from one purity to another with the mix calculated automatically. Each worker's gold balance updates instantly and any difference between what was expected and what came back is flagged.
- 5 Tracking progress.** Every order moves through clear stages: Pending → In Progress → Active → Factory Delivered → Customer Delivered. On the factory floor, each order is also colour-tagged by step.
- 6 Delivery.** When finished jewellery leaves the factory, a delivery slip is printed showing the items, weight, purity and the customer's balance. Every delivered order is kept as a searchable history.

Active Order Details

Showing 3/20 of 243 items

Order ID	Customer ID	Customer Name	Delivery Date	Assigned To	No Pcs	Weight	Status
1424	1208	ALANKRIT ORDERS	2025-05-14 19:00:35	PAK	2	60	PENDING 60 gram is postponed to Delivery Date => 2025-05-14 19:00:35
1440	1208	ALANKRIT ORDERS	2025-05-15 19:00:27		20	35	INPROGRESS 35 gram is postponed to Delivery Date => 2025-05-19 19:00:56
1440	1208	ALANKRIT ORDERS	2025-05-19 19:00:56		20	35	INPROGRESS 35 gram is postponed to Delivery Date => 2025-05-19 19:00:56

Order ID	Customer Name	Sub Retailer Name	Employee Name	Outside Retailer Name	Delivery Date	Die Taken	Assigned To	No. of Pcs of Chain	Total Weight	Remarks	Delivery Postponed	Remarks	Status	Added BY
1694	ALANKRIT ORDERS				19-Oct-2025 07:00 PM	11 Days ago	30-Sep-2025 07:32 PM	5	20	Opening Weight => 20 20 gram is postponed to Delivery Date => 2025-10-10 19:00:26		No same bracelet eg / 2 P - 5 pcs - ONE BRACELET ONE BEZEL	INPROGRESS	
1710	ALANKRIT ORDERS				17-Oct-2025 07:00 PM	11 Days ago	1-Oct-2025 07:05 PM	70	105	Opening Weight => 105 105 gram is postponed to Delivery Date => 2025-10-17 19:00:16		SK ALL MIXING DESIGN STUD	INPROGRESS	
1732	ALANKRIT ORDERS				7-Oct-2025 07:12 PM	15 Days ago	3-Oct-2025 07:12 PM	2	8	(not set)		Sk 4 gpt same photo design that print	INPROGRESS	

Active Order Details. Colour tags for each step, postponed orders, and assigned and balance pieces and grams per order. Staff names blurred.

Factory floor tags

1 Started

2 Die ready

3 With worker

4 Work completed

5 Polishing

6 Delivered from factory

APPLICATION 2 · FACTORY APPLICATION

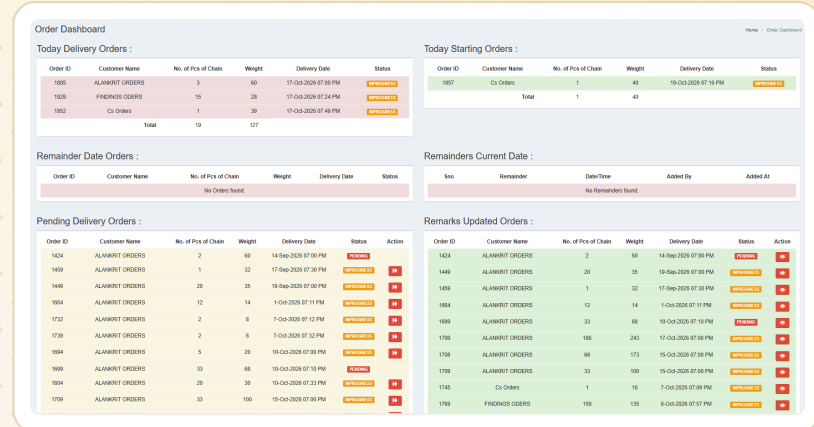
Staying on schedule and closing the day

Staying on schedule

- ◆ **Order dashboard:** each day starts with orders due today, orders starting today, reminders, pending deliveries and orders where the customer has changed their requirements
- ◆ **Overdue alerts:** each late order shows how many days it is past its delivery date, along with the weight still pending
- ◆ **Worker-wise delivery view:** for any date, the head can see each worker's and vendor's assigned orders, pieces, weight and status, with in-house and outsourced work shown separately

Closing the day: night tally

- ◆ **Employee night tally:** before leaving, each worker's gold is weighed and checked against the system. Any excess or shortage is flagged immediately, along with the name of the head who checked it
- ◆ **Department head tally:** each head's total stock is checked against the system every night, so any gap is traced the same day rather than weeks later



Order Dashboard

Today Delivery Orders :

Order ID	Customer Name	No. of Pcs of Chain	Weight	Delivery Date	Status
1994	ALANKRIT ORDERS	2	60	17-Oct-2026 07:00 PM	On Hold
1926	FINEMEN ORDERS	15	36	17-Oct-2026 07:24 PM	On Hold
1992	Cs Orders	1	39	17-Oct-2026 07:48 PM	On Hold
Total		18	135		

Today Starting Orders :

Order ID	Customer Name	No. of Pcs of Chain	Weight	Delivery Date	Status
1997	Cs Orders	1	40	19-Oct-2026 07:16 PM	On Hold
Total		1	40		

Remainder Date Orders :

Order ID	Customer Name	No. of Pcs of Chain	Weight	Delivery Date	Status
No Orders Found					

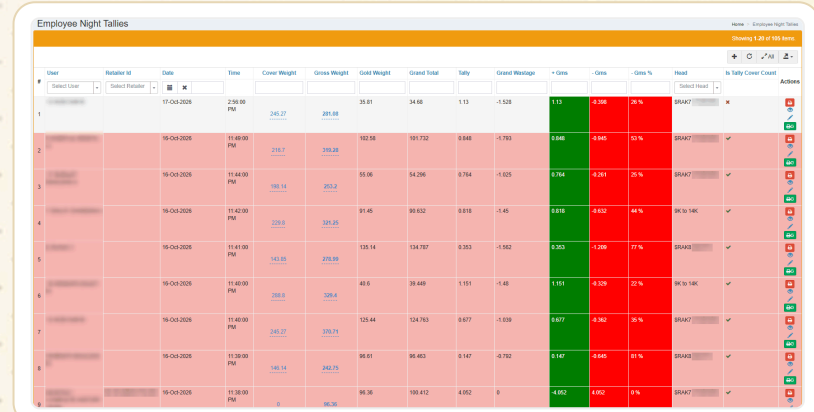
Pending Delivery Orders :

Order ID	Customer Name	No. of Pcs of Chain	Weight	Delivery Date	Status	Action
1424	ALANKRIT ORDERS	2	60	14-Sep-2026 07:00 PM	On Hold	On Hold
1469	ALANKRIT ORDERS	1	32	17-Sep-2026 07:30 PM	On Hold	On Hold
1469	ALANKRIT ORDERS	20	35	19-Sep-2026 07:00 PM	On Hold	On Hold
1954	ALANKRIT ORDERS	12	14	1-Oct-2026 07:11 PM	On Hold	On Hold
1732	ALANKRIT ORDERS	2	6	7-Oct-2026 07:12 PM	On Hold	On Hold
1739	ALANKRIT ORDERS	2	6	7-Oct-2026 07:32 PM	On Hold	On Hold
1994	ALANKRIT ORDERS	5	20	10-Oct-2026 07:00 PM	On Hold	On Hold
1999	ALANKRIT ORDERS	33	66	10-Oct-2026 07:16 PM	On Hold	On Hold
1994	ALANKRIT ORDERS	20	35	10-Oct-2026 07:33 PM	On Hold	On Hold
1739	ALANKRIT ORDERS	33	100	15-Oct-2026 07:00 PM	On Hold	On Hold

Remarks Updated Orders :

Order ID	Customer Name	No. of Pcs of Chain	Weight	Delivery Date	Status	Action
1424	ALANKRIT ORDERS	2	60	14-Sep-2026 07:00 PM	On Hold	On Hold
1469	ALANKRIT ORDERS	20	35	19-Sep-2026 07:00 PM	On Hold	On Hold
1469	ALANKRIT ORDERS	1	32	17-Sep-2026 07:30 PM	On Hold	On Hold
1954	ALANKRIT ORDERS	12	14	1-Oct-2026 07:11 PM	On Hold	On Hold
1994	ALANKRIT ORDERS	33	66	10-Oct-2026 07:16 PM	On Hold	On Hold
1739	ALANKRIT ORDERS	188	243	17-Oct-2026 07:00 PM	On Hold	On Hold
1739	ALANKRIT ORDERS	66	173	15-Oct-2026 07:00 PM	On Hold	On Hold
1739	ALANKRIT ORDERS	33	100	15-Oct-2026 07:00 PM	On Hold	On Hold
1745	Cs Orders	1	16	7-Oct-2026 07:00 PM	On Hold	On Hold
1739	FINEMEN ORDERS	150	135	8-Oct-2026 07:07 PM	On Hold	On Hold

Order Dashboard. Today's deliveries and starts, reminders and pending deliveries.



Employee Night Tallies

User	Release ID	Date	Time	Cover Weight	Gross Weight	Gold Weight	Grand Total	Tally	Grand Weight	+Gross	-Gross	Gross %	Head
1		17-Oct-2026	7:50:00 PM	240.27	261.08	35.81	34.68	1.13	-1.528	1.13	-2.666	26%	SHAKET
2		19-Oct-2026	11:48:00 PM	210.7	240.28	102.58	191.732	0.848	-1.793	0.848	-0.945	55%	SHAKET
3		19-Oct-2026	11:44:00 PM	189.11	201.2	95.06	94.296	0.764	-1.025	0.764	-0.261	25%	SHAKET
4		19-Oct-2026	11:42:00 PM	220.9	221.25	91.45	90.632	0.818	-1.45	0.818	-0.632	44%	SHAKET
5		19-Oct-2026	11:41:00 PM	143.85	219.98	128.14	134.787	0.353	-1.052	0.353	-1.209	27%	SHAKET
6		19-Oct-2026	11:40:00 PM	200.9	228.4	82.9	39.449	1.151	-1.46	1.151	-0.325	22%	SHAKET
7		19-Oct-2026	11:40:00 PM	240.27	229.71	125.44	124.763	0.677	-1.039	0.677	-0.362	36%	SHAKET
8		19-Oct-2026	11:39:00 PM	180.14	241.75	90.91	90.403	0.547	-0.702	0.547	-0.155	31%	SHAKET
9		19-Oct-2026	11:38:00 PM	2	261.08	95.36	193.412	0.002	0	-0.002	0.002	0%	SHAKET

Employee Night Tallies. Excess and shortage flagged. Names blurred.

APPLICATION 2 · FACTORY APPLICATION

Cash, people and reports in the same system

Cash management

- ◆ Every payment and receipt is recorded with who gave it, who received it, the purpose and the source, with photos of bills attached as proof
- ◆ Cash balances update with every entry and a daily expense summary is always available
- ◆ Cash balances are shown for every customer and employee
- ◆ A **cash reminders calendar** shows loan repayments, interest dues, chit payments, deposit renewals and bill payments, so no due date is missed

People and customers

- ◆ **Staff movement:** every time a staff member steps out during working hours, the reason and time are recorded
- ◆ **Customer preferences:** each customer's standing requirements, such as purity, hook type and finishing, are saved and shown whenever their order is handled
- ◆ **Reminders calendar:** recurring tasks and follow-ups are scheduled so they are never missed

Reports

- ◆ **Order-wise report:** every order with its assigned workers, work completed, balance pending and status
- ◆ **Customer turnover graph:** each customer's monthly order volume
- ◆ **Gold and cash balances:** what every employee, vendor, retailer and customer holds or owes and for how long
- ◆ **Sales and purchase reports:** jewellery sold to and bought from each customer
- ◆ **Consolidated gold and cash reports:** all movements for any person or period, with the net position
- ◆ **One Day Action Report:** the whole day in one view



APPLICATION 3 · SHOP APPLICATION

Alankrit retail and trade

Alankrit by RAK is where finished jewellery meets the customer. The showroom sells to walk-in buyers, supplies jewellery shops and retailers and buys finished jewellery from other vendors. Every month, thousands of pieces move in and out across many purities, weights and designs and every piece, every gram of gold and every rupee has to be accounted for.

65,000+

jewellery pieces tracked with individual barcodes

40+

jewellery categories, from studs and rings to bangles and chains

500+

retailers and customers with live gold and cash balances

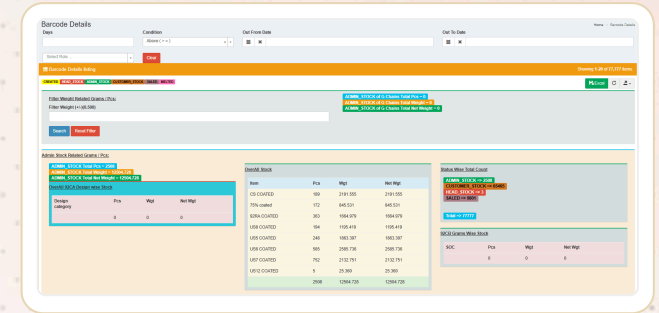
What it delivers

- ◆ Every piece accounted for, from arrival to sale
- ◆ No end-of-day tallying, as gold and cash balances update with every transaction
- ◆ Faster billing, with estimates turned into final bills in one step
- ◆ Smarter buying, guided by stock targets and clear alerts
- ◆ Credit under control, with limits for every retailer
- ◆ Complete visibility for management through daily and department-wise reports

APPLICATION 3 · SHOP APPLICATION

The journey of a piece

- 1 Arrival and tagging.** When jewellery arrives, from RAK's factory or an outside vendor, it is weighed and recorded. Each piece gets its own barcode tag carrying its design, category, vendor, weight, length and size, along with a photo. Pieces still waiting to be tagged are shown separately, so nothing sits unrecorded.
- 2 In the showroom.** Once tagged, the piece becomes part of livestock. At any moment, the team can see how many pieces and how many grams of each type and purity are available.
- 3 Billing and sale.** When a customer or retailer is ready to buy, staff prepare an estimate in moments. Once confirmed, the estimate becomes the final bill, with or without GST, without re-entering any details.
- 4 Following every piece.** Every barcode shows exactly where the piece is: in the showroom, with a retailer, sold or sent for melting. When pieces are given to a retailer, the system shows how many days they have been out, so the team knows when to follow up.



Item	Pcs	Wgt	Net Wgt
CO COATED	100	2181.100	2181.100
TPR COATED	132	845.511	845.511
USR COATED	200	1000.475	1000.475
USR COATED	104	1105.419	1105.419
USR COATED	240	1003.347	1003.347
USR COATED	140	2000.136	2000.136
USR COATED	702	2132.751	2132.751
USR COATED	1	25.300	25.300
TOTAL	2008	12084.728	12084.728

Barcode Details. Every barcode by status: created, head, admin or customer stock, sold, melted.

Two levels of access

Admin: sets up the system, including users, roles, item lists and banks. The admin assigns staff to department heads, controls the cash given to each head and sees business-wide reports such as stock tallies, chain stock across departments and staff task reports.

Department heads: run the showroom day to day, covering tagging, billing, managing retailers and cash and following up on orders, with access limited to their own area.

APPLICATION 3 · SHOP APPLICATION

Credit, balances and knowing what to stock

Managing retailers and credit

Many of Alankrit's buyers are jewellery shops that take stock on credit. For each one, the application keeps a full record of the jewellery taken, the jewellery returned and the gold and cash still due. Credit limits are set in grams of gold for every retailer and temporary limits can be granted for specific orders, with the reason recorded.

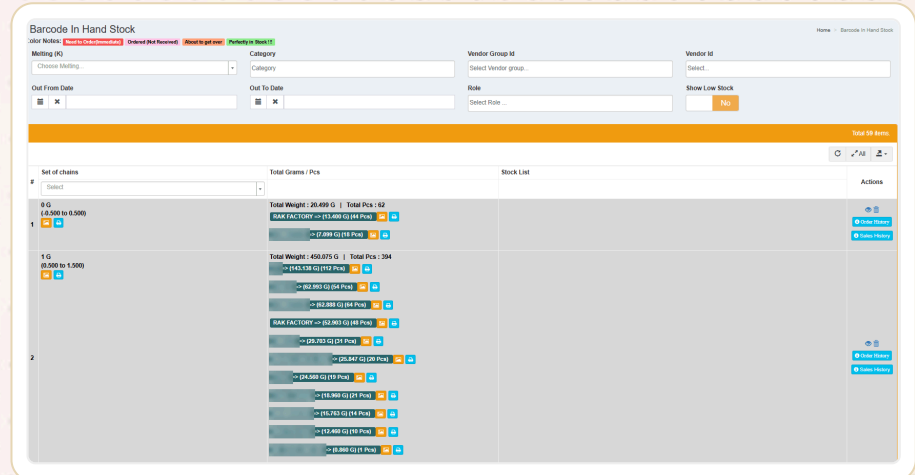
Gold and cash, always balanced

Every time gold or jewellery moves in or out, the application records the weight, the purity and who handled it and updates the balance instantly. Stock is reconciled with every transaction instead of being tallied by hand at the end of the day. Every receipt and payment is recorded with its source (cash, bank or UPI) and purpose, and gold bought or sold is converted to value automatically using the day's rate.

Knowing what to stock

Chains are Alankrit's fastest-moving products, so each chain weight (4 g, 8 g, 16 g and so on) has a target stock level and is colour-coded, so the team can see at a glance what to buy next.

- Need to Order
- Ordered
- Running Low
- In Stock

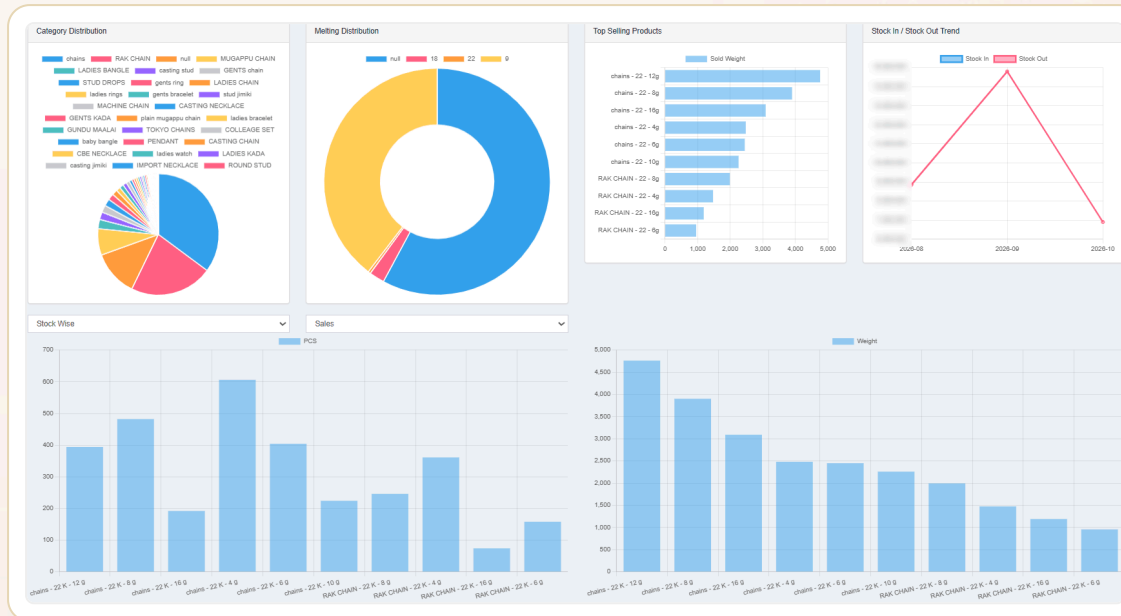


The screenshot shows the 'Barcode In Hand Stock' interface. At the top, there are filters for 'Material (G)', 'Chain Weight', 'Out From Date', 'Out To Date', 'Vendor Group ID', 'Vendor ID', 'Role', and 'Show Low Stock'. Below the filters, there is a table with columns: '# of chains', 'Total Grams / Pcs', and 'Stock List'. The table lists various chain weights and their corresponding stock levels, color-coded according to the legend. For example, 0 G chains are listed with a total weight of 20,400 G and a total price of 62. The table also includes a 'Total 98 Items' summary at the top right.

Barcode In Hand Stock. Chain stock by weight band, with the colour key at top left. Vendor names blurred.

APPLICATION 3 · SHOP APPLICATION

Reports for every view of the showroom



Turnover dashboard charts. Category and melting distribution, top-selling products and monthly trend. Trend values blurred.

Reports

- ◆ **One Day Action Report:** the whole day's stock, cash, orders, deliveries and reminders in one view
- ◆ **Turnover dashboard:** stock in, stock out and sales performance, with charts for top-selling products and monthly trends
- ◆ **Purchase and sales report:** jewellery bought, sold and in hand over any period
- ◆ **Consolidated gold and cash reports:** all gold and cash given and received for any customer or period
- ◆ **Department-wise stock and cash reports:** what each department head is holding, item by item
- ◆ **Customer, retailer and vendor reports:** stock, sales and balances for every party
- ◆ **Closing stock report:** the exact stock in hand at the end of each day

RESULTS AND BUSINESS IMPACT

Tooling, production and retail on dedicated systems

With all three applications live, Sri RAK Jewellers now runs its tooling, factory production and retail operations on dedicated digital systems instead of registers and manual follow-ups.

Tooling under control

Dies, designs and machines are found in moments and nothing is lost or forgotten during repair.

Orders delivered on time

A daily view of what is due, combined with overdue alerts, keeps production on schedule.

Gold fully accounted for

Every gram given to a worker, vendor or retailer is tracked and gaps are caught the same day.

Faster, more accurate retail

Barcoded stock, quick billing and controlled credit at Alankrit.

Clear view for management

Daily, department-wise and customer-wise reports across the business.

Simple enough for everyone

The applications were designed so that skilled craftsmen on the factory floor, not only office staff, can use them with ease.

First live

Die Oct 2019

Factory Jul 2020

Shop Sep 2020

All three live and in daily use today

DEVELOPMENT APPROACH

Built in phases, around how RAK's teams work

**Application type**

Web-based applications accessed through a desktop browser, giving RAK's admin, department heads and staff full-screen access to orders, stock, reports and calendars.

Architecture

Built on MVC (Model-View-Controller) architecture with a modular design. Each application is made up of separate modules, such as orders, stock, barcoding, cash management and reports, that work together on a single source of data.

Integration

The Die and Factory applications are connected, so die details are available directly while processing an order. The Shop application runs independently for Alankrit.

Timeline

Die: started Sep 2019, first live Oct 2019. **Factory:** started Jan 2020, first live Jul 2020. **Shop (Alankrit):** started Mar 2020, first live Sep 2020.

DEVELOPMENT APPROACH

From proof of concept to continuous enhancement

Approach

The engagement began in 2018 with a proof of concept for one of RAK's requirements. Once it proved successful, requirements were gathered by studying how RAK's tooling, factory and showroom teams actually work, from die records and order handling to gold issue and receipt, tagging, billing and credit. Modules were then developed, tested and validated with the client and rolled out in phases.

Continuous enhancement

Since going live, the applications have grown alongside the business. RAK continues to request new features and changes and Techno Tackle develops and delivers them on an ongoing basis.

Portals delivered

3 applications, with separate Admin and Department Head logins in the Shop and Factory applications

Management

Techno Tackle's in-house Project Management System (PMS)

Current status

All three applications are live and in daily use across RAK's factory and the Alankrit showroom. The platform is under ongoing maintenance and support, with changes and enhancements delivered as required.

Scalability

Built on a flexible architecture, the platform is ready to support more orders, more staff, new departments and future enhancements.

WHY TECHNO TACKLE

One partner for the entire business

Together with the attendance and payroll system Techno Tackle also built for RAK, these applications give Sri RAK Jewellers four connected pillars of digital support. They cover everything from staff attendance and pay to dies, factory orders and retail sales. Every core part of the business, from the people who make the jewellery to the showroom that sells it, now runs on software built specifically for RAK.

Payroll and Attendance

Staff attendance and pay

Die Application

Dies, moulds and machines

Factory Application

Orders and manufacturing

Shop Application

Alankrit retail and trade

A long-term partner: associated with RAK since 2018, delivering four applications (payroll, die, factory and shop) along with numerous enhancements, and still supporting them today.

A dependable alternative to freelancers

A structured team that replaced an unsatisfactory freelancer-built system and has provided stable support ever since.

Jewellery industry experience

Systems built for manufacturers, wholesalers and retailers of gold jewellery.

Built around the client

Software designed around how the business actually works, not generic templates.

Easy to use

Applications that every level of staff can learn quickly.

LET'S BUILD YOURS

Still running on registers or outdated software?

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.

4.8 ★

Clutch · 8 verified reviews

4.8 ★

Google · 120+ reviews

ISO

27001:2022 certified

Website www.technotackle.com

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

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