

A Technotackle Case Study



Project Title

RAK



Type of Business

Jewelry Manufacturing



Type of Document

Case Study



Scope Of Work

Figma, Mobile App, Admin Panel



Application URL

[Explore Android app](#)



Published Date

Android: Mar 2024 Admin panel: Nov 2018

Tech Stack



A TechnoTackle Case Study

Client Accolade

My name is Balam, 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 laborers 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.

To watch the video testimonial [click here](#)



About the Client Company

The client owns a gold jewellery manufacturing company, connecting sellers with consumers through crafted jewellery. They source raw gold, transforming it into well made pieces sold in both their own shops and other merchant shops.

The company caters to both individual customers and retail outlets seeking unique and personalized jewellery solutions.

To watch the video testimonial [click here](#)



Business Model:

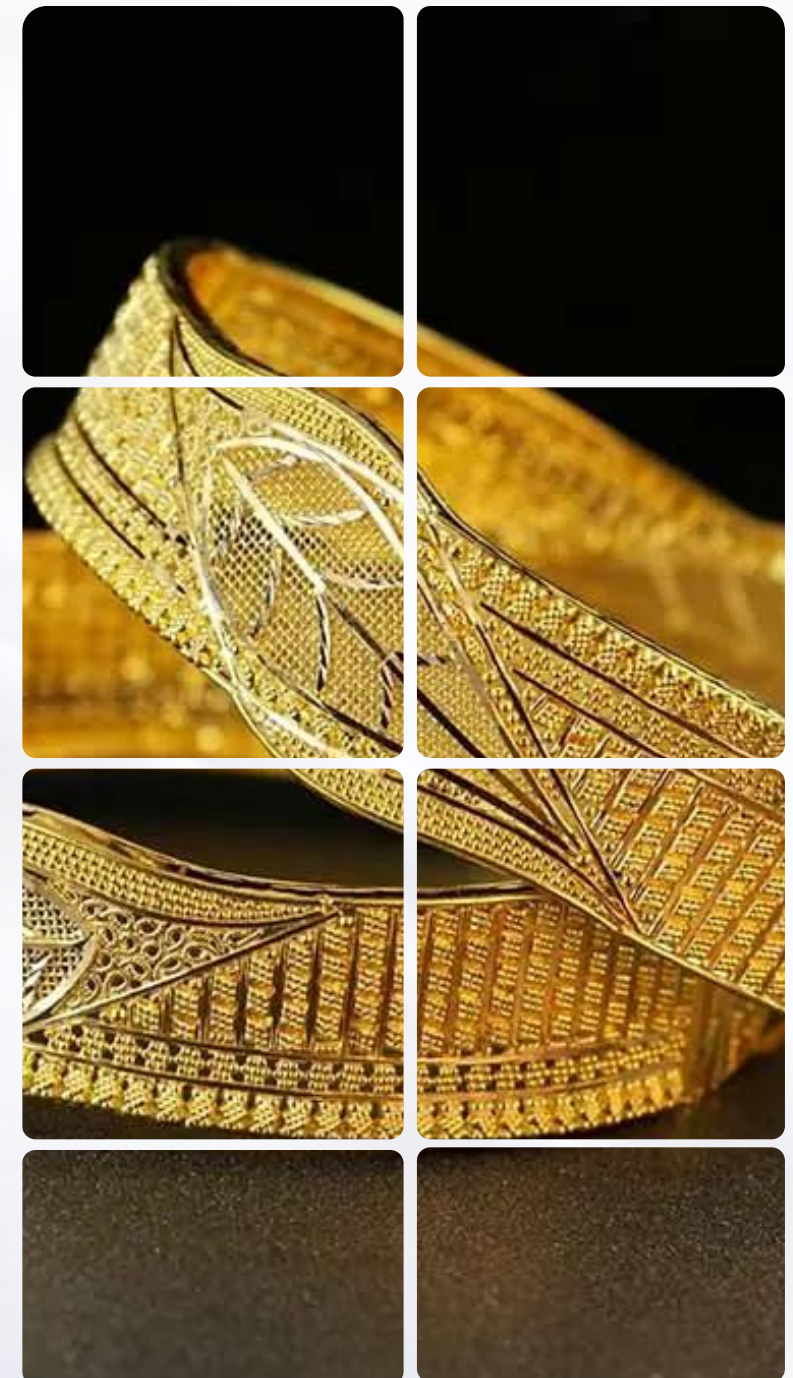
Rak Gold Jewelers operates in the following key areas:

Gold Sourcing: They carefully select gold from trusted suppliers to ensure quality and authenticity.

Design and Making: Their skilled team creates a wide range of jewellery, from classic to modern styles, right in their workshop.

Customization: They offer personalized jewellery services, working closely with customers to bring their unique ideas to life.

Sales: Their jewellery is sold through various outlets, including their own store and other retail partners.



The Real Challenge

- ❖ Rak Gold Jewelers encountered significant challenges due to their paper-based record-keeping system. Managing transactions and employee details manually proved to be inefficient and heavy. Retrieving data from paper records was time-consuming and open to errors, leading to operational inefficiencies and frustration among staff.
- ❖ To address these challenges, Rak Gold Jewelers sought assistance from Techno Tackle to develop a solution. We collaborated with the client to understand their requirements and developed an integrated admin panel and a simple mobile app.

Project Progress



Requirements Gathering: Our tech team had a call with the client to understand their needs.



UI Design: We used Figma to design the app, making sure it matched the client's vision.



Development: Our development team got started on building the mobile application.



Testing: Once the development phase was completed, manual testing was conducted to ensure the functionality, performance, and usability of the mobile application.

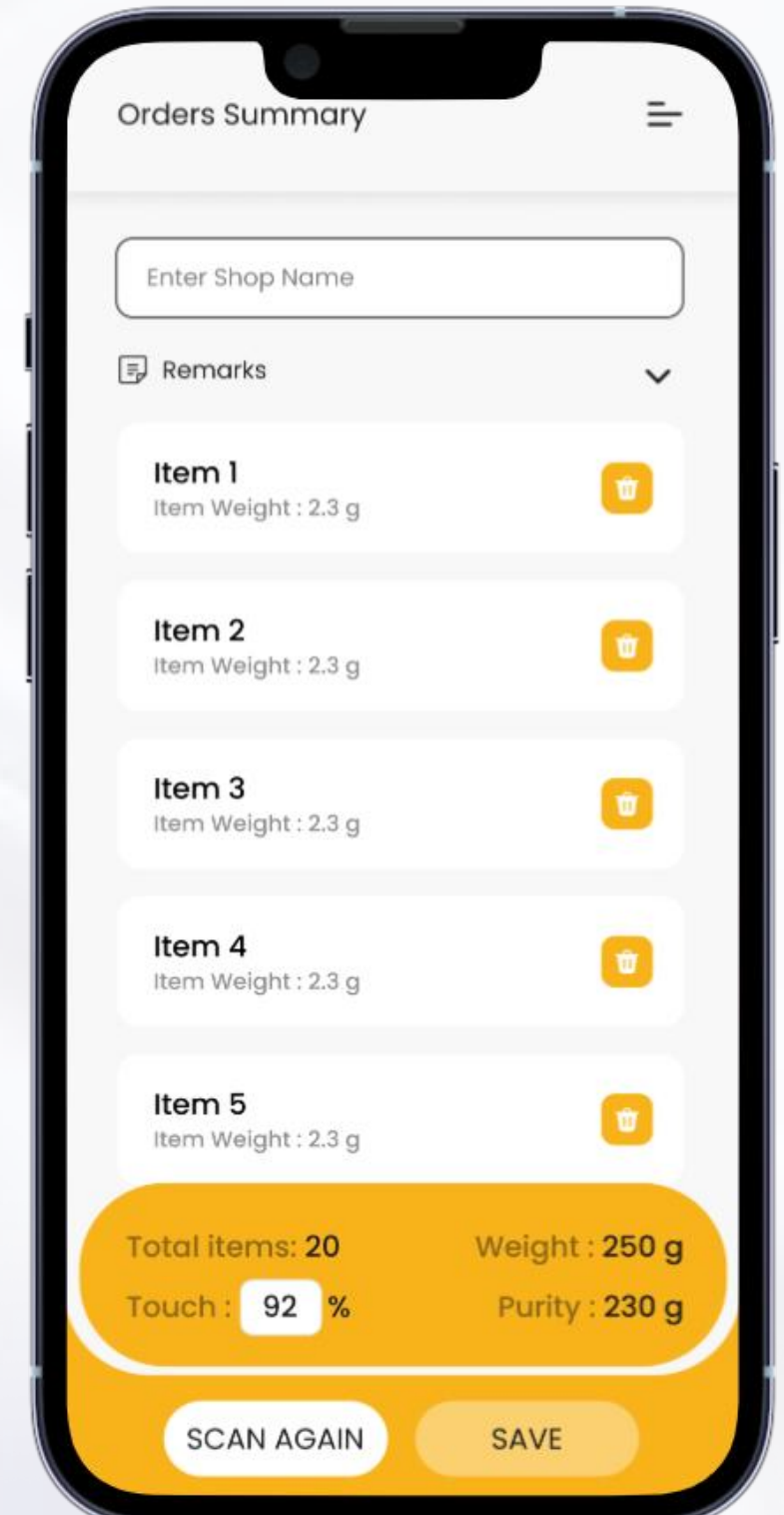


Deployment: After successful testing, the iOS version of the mobile application was deployed to the Appstore, making it accessible to end users for download and use.



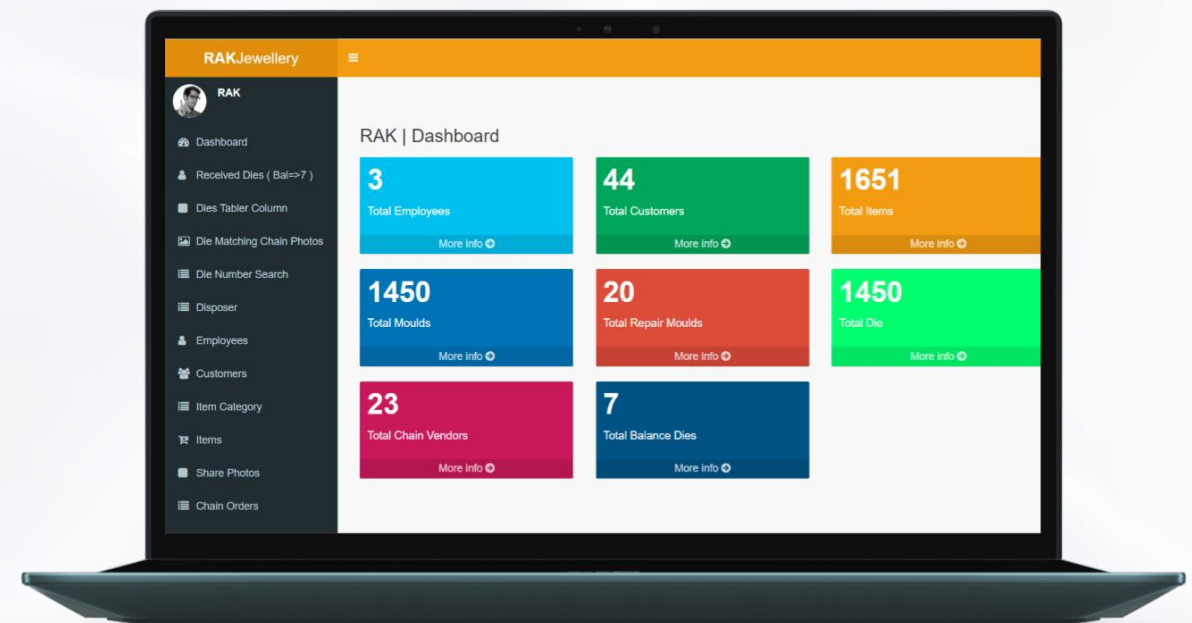
The Solution:

- 💎 Using the Yii2 PHP Framework and MySQL, we developed a user-friendly web based admin panel that serves as a centralized platform for managing transactions, employee details, and other essential business operations.
- 💎 It provides functionalities for recording sales, tracking inventory, managing employee information, and generating reports based on user requirements.
- 💎 We developed four distinct admin panels tailored to RAK Gold Jewelers' various needs:
 1. Sri RAK Jewellers
 2. Attendance
 3. CS Swarnam
 4. Swarnam



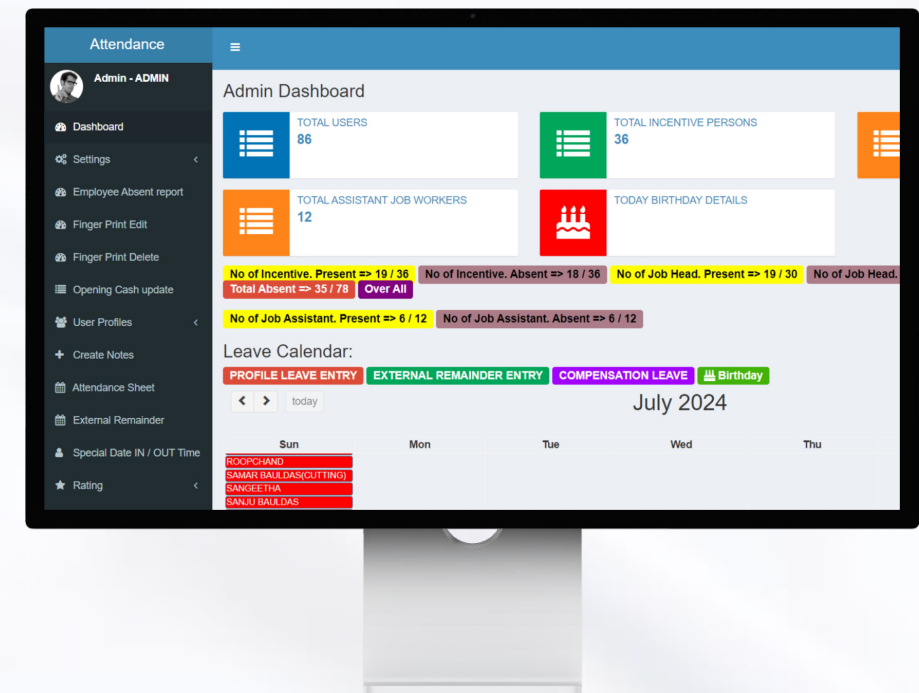
Sri RAK Jewellers admin panel features include:

- 💎 **Inventory Tracking:** This application will monitor machines and mold stock levels for seamless production.
- 💎 **Purchase Management:** It will streamline procurement processes, from purchase orders to payment tracking.
- 💎 **Repair History Logging:** It maintains comprehensive repair logs for historical performance analysis.



Attendance admin panel features include:

- 💎 **Time Tracking:** This application records employee clock-ins, outs, and breaks for accurate attendance.
- 💎 **Leave Management:** It manages casual leave, sick leave, and other time-off requests efficiently.
- 💎 **Shift Scheduling:** It facilitates scheduling of employee shifts and manages staffing requirements.
- 💎 **Overtime Tracking:** It tracks overtime hours worked by employees for payroll and compliance.
- 💎 **Reporting:** It helps generate reports on attendance patterns, absences, and trends for analysis.

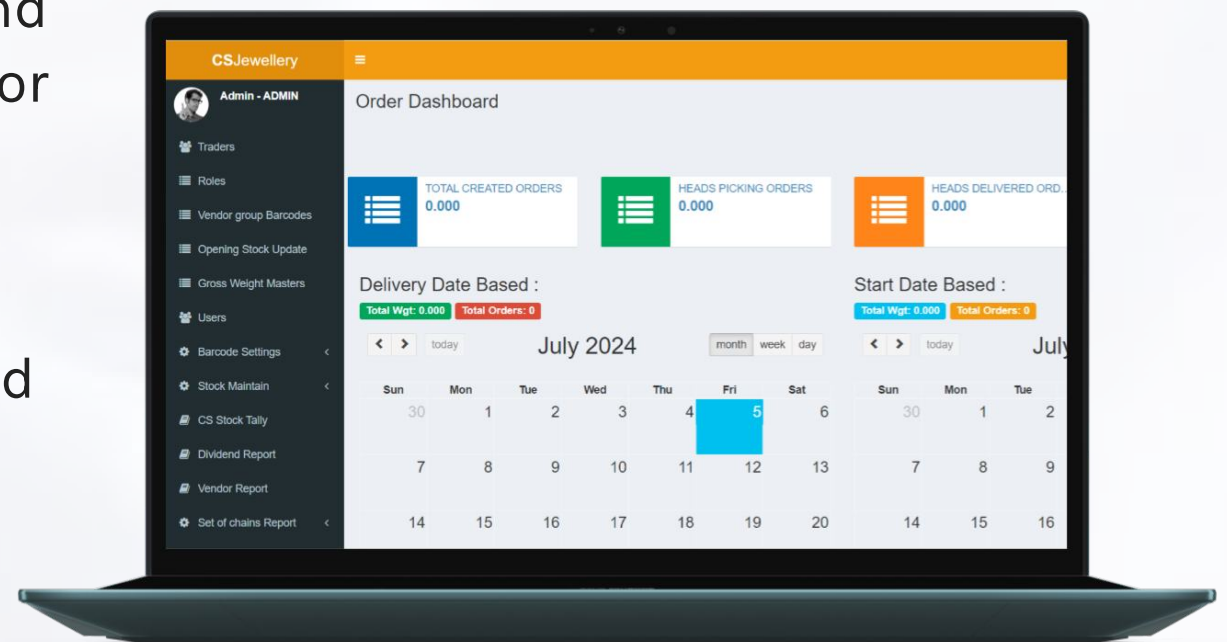


CS Swaranm admin panel features include:

- 💎 **Order Tracking:** This will track chain orders from placement to delivery for transparency.
- 💎 **Assignment:** It assigns orders to employees, streamlining task delegation and management.
- 💎 **Billing:** It generates invoices for chain orders, facilitating smooth financial transactions.
- 💎 **Vendor Management:** This will reserve stock with vendors, ensuring availability for chain orders.
- 💎 **Inventory Management:** It will enable employee and head stock checks, maintaining accurate stock levels.

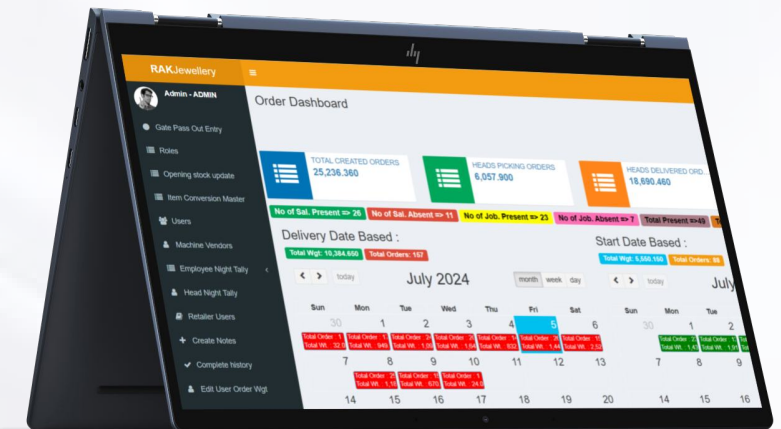
CS Swaranm admin panel features include:

- 💎 **In/Out Tally:** It will track incoming and outgoing chain stock movements for accountability.
- 💎 **Reporting:** It will provide comprehensive stock and order reports for informed decision-making.
- 💎 **Cash Handling:** This will record cash transactions related to orders, ensuring financial transparency.



Swaranm admin panel features include:

- 💎 **Stock Management:** This application helps to track stock details, including in/out/sales and manage inventory efficiently.
- 💎 **Barcode Creation:** It generates unique barcodes for new stock items and maintains barcode records.
- 💎 **Gold Calculations:** It will handle gold-related calculations for accurate inventory and financial management.
- 💎 **Role Management:** It manages multiple roles, such as users, employees, and heads, for streamlined operations.



All of these applications work together seamlessly, like a synchronized team, ensuring smooth operations and collaboration.

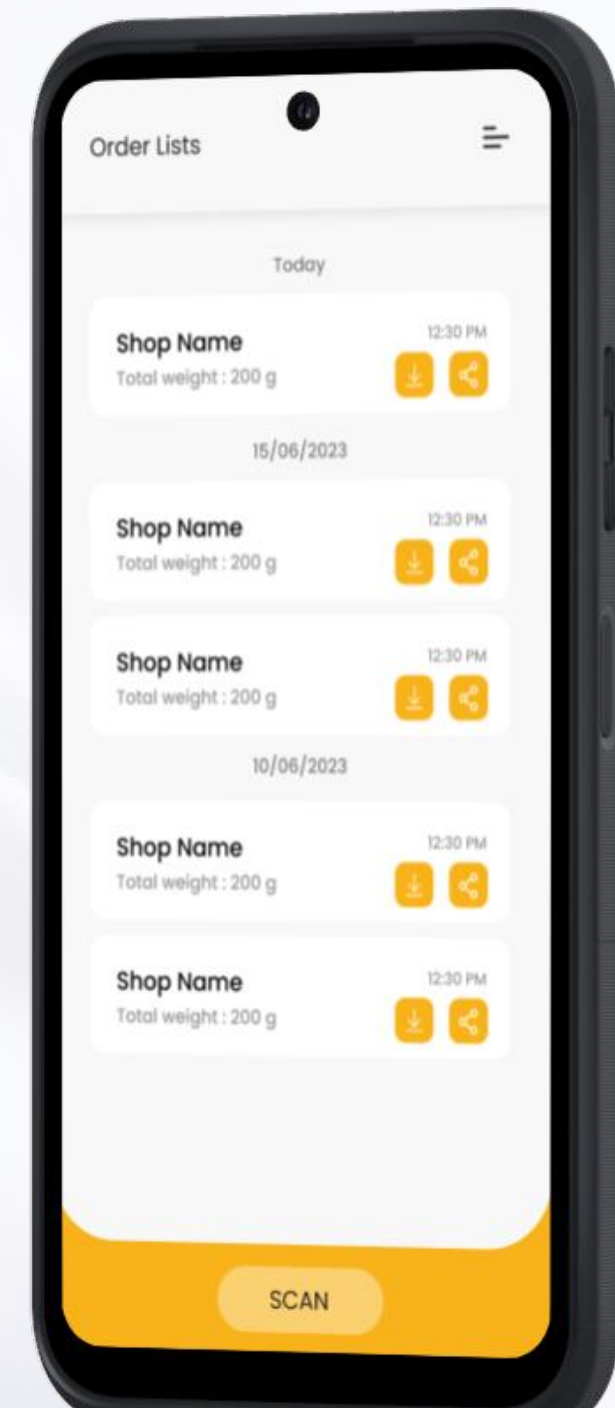
Mobile App Features:

In addition to the admin panel, using React Native with a Java script, we developed a simple mobile app to complement the system.

The mobile app serves to:

- 💎 Scan jewellery barcodes.
- 💎 Input individual jewellery details: weight, purity, quantity, and touch percentage.
- 💎 Add remarks for further clarity.
- 💎 Access order lists, including shop names and total weight, with customizable filters, enabling download and sharing capabilities.

The admin panel controls access to the mobile app for new users.



Project Management and Team Structure

We have implemented the Software Development Life Cycle (SDLC) process for developing and managing projects - requirement gathering, design, development, testing, and deployment. Our team comprises, as mentioned below:

💎 Project Manager	01
💎 App Developer	01
💎 Designer	01
💎 Back End Developer	03
💎 Quality Analyst	02



Architecture & Technologies

The mobile application and the admin panel were developed based on the MVC architecture. The technologies involved in design and development are mentioned below:

💎 Design Tool

Figma



💎 Front End

PHP, React Native



💎 Back End

Laravel



💎 Database

MySQL



💎 Project Management Tool

Zoho Projects



The Results

- By implementing the admin panel and mobile app, Rak Gold Jewelers has overcome the challenges posed by their paper-based workflow.
- The digitization of their processes has resulted in significant time savings, improved data accuracy, and enhanced operational efficiency.
- Staff members can now focus more on serving customers and driving business growth than dealing with manual paperwork.
- Overall, the solution has enabled Rak Gold Jewelers to streamline their operations and position themselves for future success in the competitive jewelry market.



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Browse Techno Tackle's website [here](#).

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