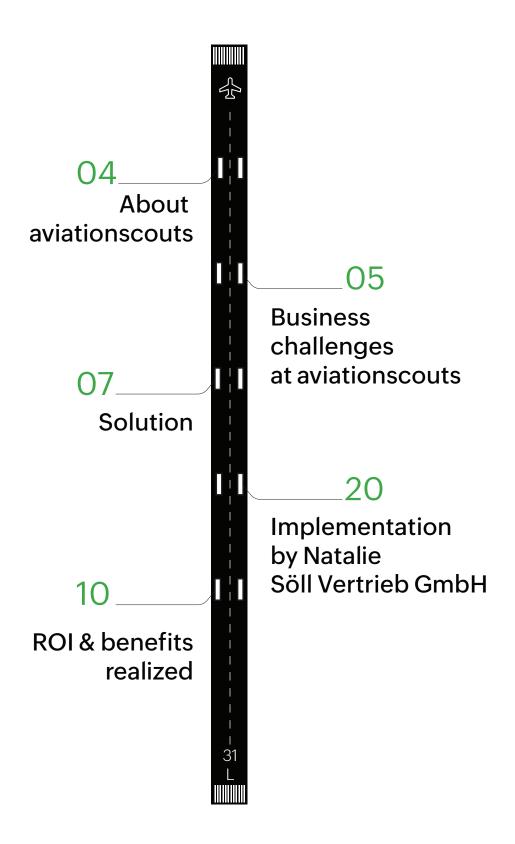


Leading the way in aviation excellence with low-code

MRO | Engineering | Parts sales | Inventory



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aviation scouts.



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Hemal Bharadva,
 Director of Engineering and Operations, aviationscouts GmbH



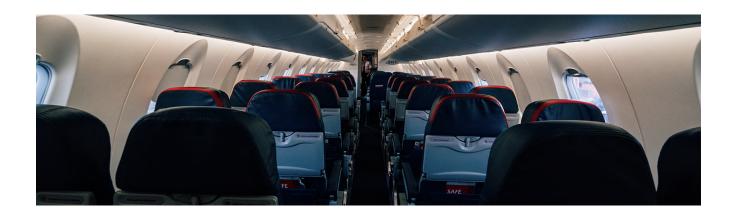


The company: aviationscouts

Headquartered in Lichtenfels, Bavaria, the heart of Germany, aviationscouts GmbH trade and refurbish aircraft interior parts. They have a proven track record of delivering high-quality aircraft interior components and MRO (maintenance, repair, and overhaul) services to their clients. Their team of experienced professionals have a deep understanding of the aviation industry and the ability to provide expert advice to their clients.

With its leading online marketplace, aviationgate.com, they promote and locate surplus aircraft passenger seats and interiors. aviationscouts also purchases, stores, overhauls, and sells aircraft seats and interiors to airlines, MRO companies, and lessors.

They currently manage an inventory of more than 14,000 part numbers of A330/A340, A319, and B737 enhanced interiors and various seat models in their 4,500+ square meter warehouse. As a full-service provider, aviationscouts meets the high requirements of the EN 9100 and ISO 9001 quality management systems.



The challenge: Weathering the storm at aviations couts

There are a number of challenges a company like aviations couts faces in their day-to-day operations. The only way to run a successful business was to address these pain points as easily as possible.



The complexity of maintaining and tracking products

This is the process of monitoring and managing the location and usage of aircraft parts throughout their life cycle. The process includes tracking parts inventory, maintenance, repair history, and movement from one place to another. The primary purpose of aircraft parts tracking is to ensure the safety and reliability of the aircraft by ensuring all sub-components are properly maintained and replaced when necessary. It also helps reduce maintenance costs and improves the efficiency of the aircraft maintenance process.



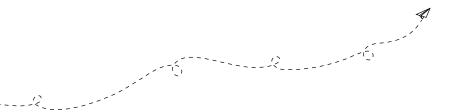
Stringent regulations

The aviation industry is highly regulated, and aircraft parts sales businesses must comply with various regulations set by the EASA. These regulations can be complex and costly to navigate with changing SOPs, new revisions, continuous training, and equipment maintenance compliance.



Varying demand

The demand for aircraft parts is directly linked to the performance of the aviation industry. Any downturn in the sector, like the pandemic, can negatively impact the sales of aircraft parts and the availability of resources.





Supply chain management

Managing the supply chain for aircraft parts is challenging, as components need to be sourced from various suppliers and manufacturers. This can lead to supply chain disruptions and delays in delivering products to customers.



Integration with IT solutions

Aviation IT systems need to integrate seamlessly with other platforms used by suppliers and buyers. Some key features of aircraft parts monitoring systems include barcoding or RFID tagging parts, inventory management, maintenance scheduling, and tracking parts' usage and history. Integrating these systems with other aircraft maintenance software to provide a comprehensive solution for managing aircraft maintenance is a mammoth task.



Developing and maintaining aviation IT systems are expensive, and aviations couts balanced costs with the benefits provided by Zoho's ecosystem of applications.



The solution: Soaring to new heights with a dedicated portal

aviationgate.com is an online portal developed by the team at aviationscouts (with the help of Zoho Creator) to manage its aircraft parts sales business. The portal helps bridge the supply side (where parts are listed) and demand (where incoming parts requests by customers get fulfilled).



The entire seat purchasing and selling process for Aviationgate begins with Zoho Creator, which acts as a backend workflow automation platform and helps manage the database for the portal, while we maintain all the general information. We can give access control and restrict data to certain types of companies. The way this works is if a customer is looking for seats for A320, which is the most commonly used airliner across the globe, the user just logs in to the portal, selects the manufacturer, and applies the relevant filters like their region.



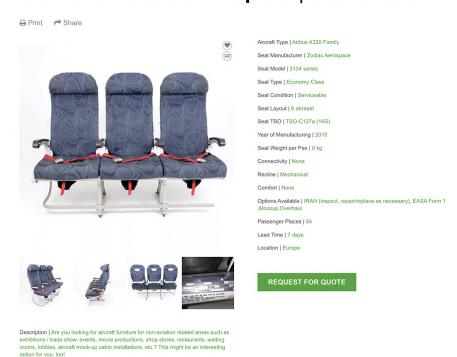
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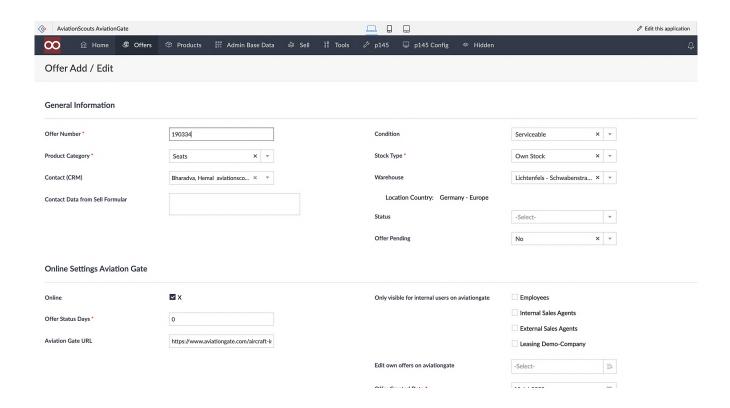
The team gathers all the data in the portal in a stepwise manner within the database, which enables easy tracking.



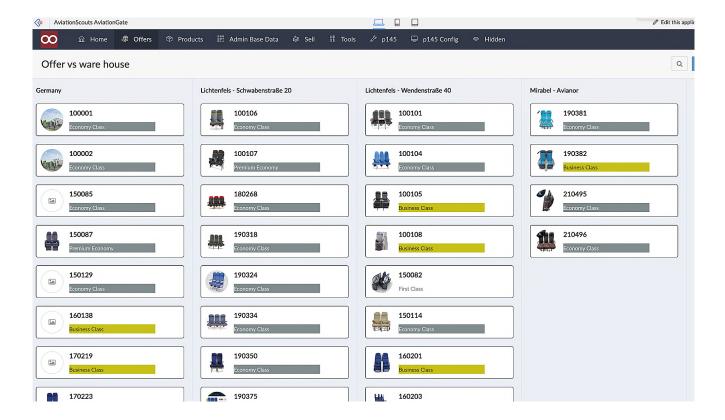
O190334 Zodiac Aerospace | 3134 series







Here's a view of the reporting tool that shows the offer number and the warehouse location:



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Benefits & ROI: Low-code in aviation sets new standards in the sky

Today, over 20 employees across departments like sales, marketing, purchasing, and warehousing, use Zoho Creator. Before exploring low-code solutions, the team at aviationscouts managed operations on many Excel sheets. The main database used was an SQL-based server, which a third-party IT company managed. However, now they have all the control over their sensitive data and create workflows as needed.



What I like about Zoho Creator is, if you have an idea, it's effortless to create something that you can start working with. All the apps we've deployed so far require minimum knowledge of databases. The best thing is that the solution scales very easily without any code. I think this was an important step in our digital transformation journey. Running experiments and rolling out prototypes is a breeze when we get our first few forms up and all the datasets interlinked.



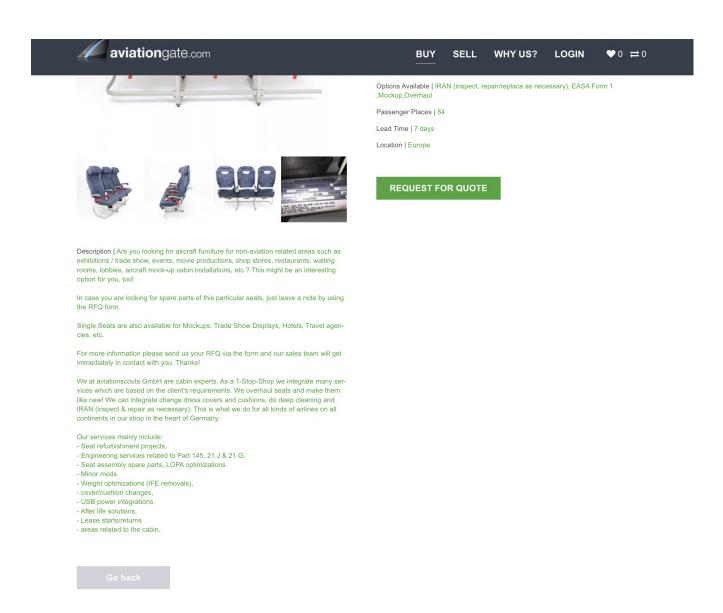
Hemal Bharadva,Director of Engineering and Operations, aviations couts GmbH

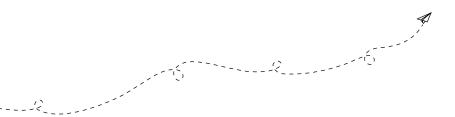


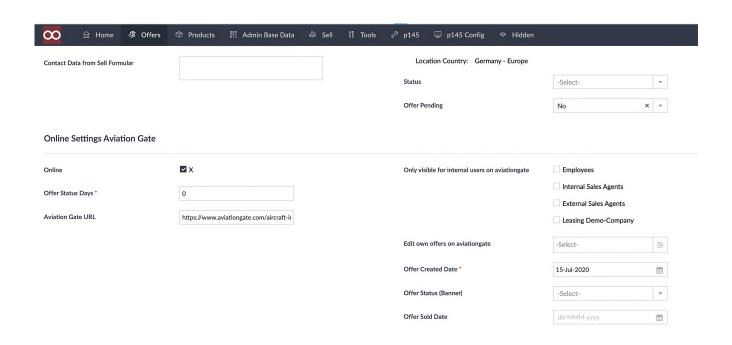


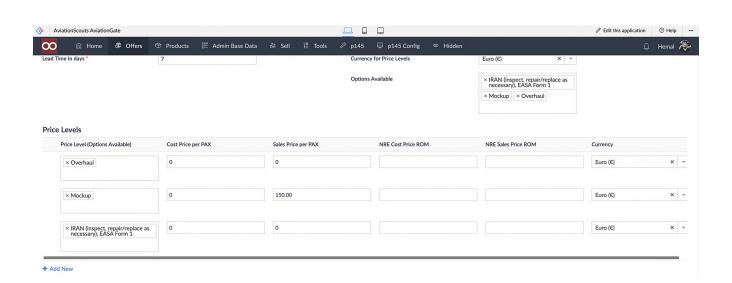
Business process:

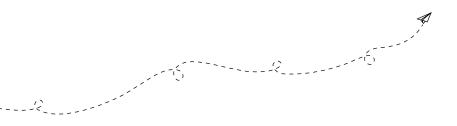
Since aviations couts deals with parts refurbishment and sales, all essential parameters must be captured for internal tracking every time parts are purchased. Such as the Aircraft model, manufacturer, availability, seat layout, and condition of the parts. These items are now automatically created in the internal accounting system as well.













SALES INFOS

Location Country | Germany

Warehouse | Lichtenfels - Schwabenstraße 20

Stock Type | Own Stock

CRM Contact | Mr Hemal Bharadva | hemal@aviationscouts.com | aviationscouts GmbH

Internal Data Folder | https://workdrive.zoho.eu/folder/5clyi907307e6cd2a499984642d6f9b0f440f?layout=list

Offer is visible for | All

Offer created | 15. Jul. 2020

Maintenance Manual | 25-03-70 - Rev.: 25-3 - Date: 21-Jul-2016 | CMM - Component Maintenance Manual

Documentation | CMM - Component Maintenance Manual, LOPA

Offer Post Processing Infos

Date	Comments	User
2021-06-14	Mockup price added acc. hemal	zoho_filiz1
2020-07-15	offer updated (ex Germania)	zoho_filiz1

Price Levels

Price Level	Sales Price	NRE Sales Price ROM	Cost Price	NRE Cost Price ROM
Overhaul	-	-	-	-
Mockup	150.00 Euro (€)			-
IRAN (inspect, repair/replace as necessary), EASA Form 1	-	- 4.0	-	-

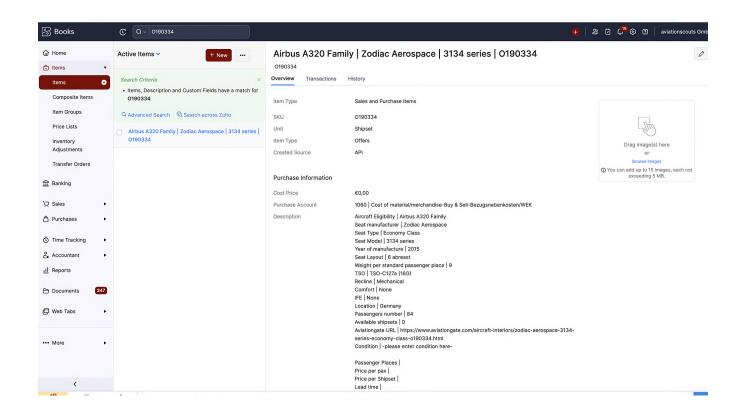
Go back

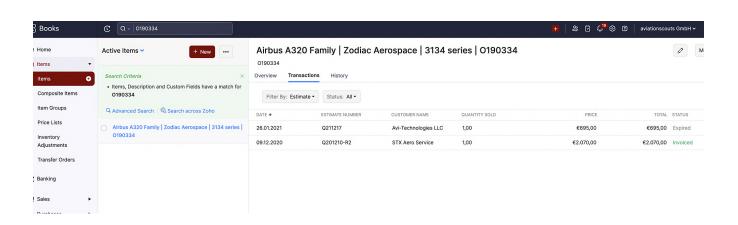
The company's Zoho Creator-built solution helps throughout their multi-stage operation.

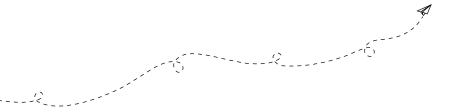


Stage 1: Sourcing

On average, they purchase 40+ aircrafts every year, which are disassembled for parts inspection and resale purposes. The team at aviationscouts relies on their multiple global sources, including airlines, aircraft tear-down companies, and lessors from across different regions for this.



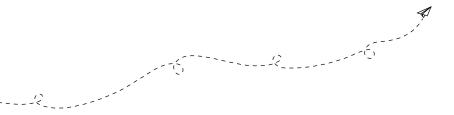




Stage 2: Inspecting

Adding to the complexity of this supply chain, aviations couts would not have visibility into the number of parts they would've procured at the time of aircraft purchase, primarily because the configuration of interiors and seats on each aircraft are customized. They are disparate and specific to each airline, even if the same model is purchased from two different airlines. This is only known after the incoming inspection is complete.







Stage 3: Dispatching

At times, handling, pickup, and packing services are also subcontracted. Since it's a global network of suppliers, representatives in different countries work on dispatching the items removed from the aircraft at the maintenance facility. They're packed, and the final inventory check happens once it's shipped to their warehouse in Germany.

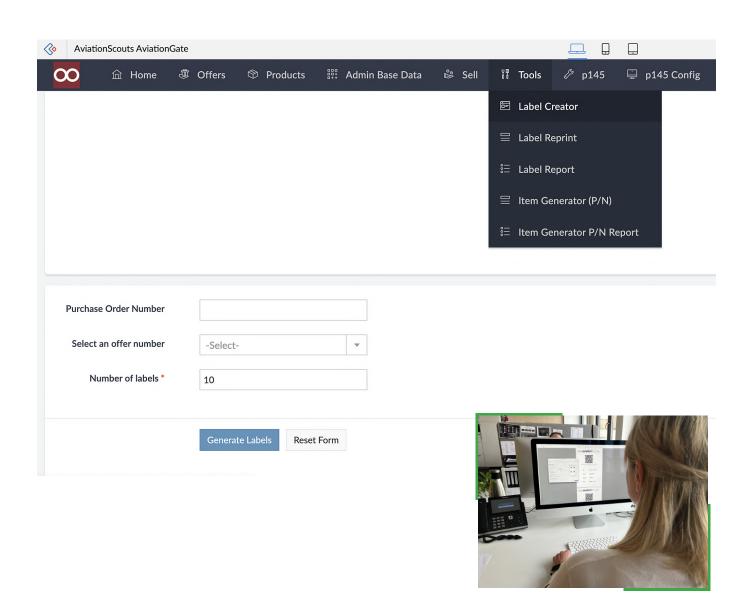


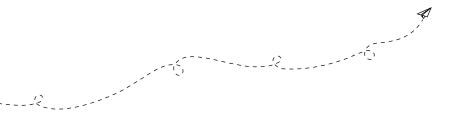


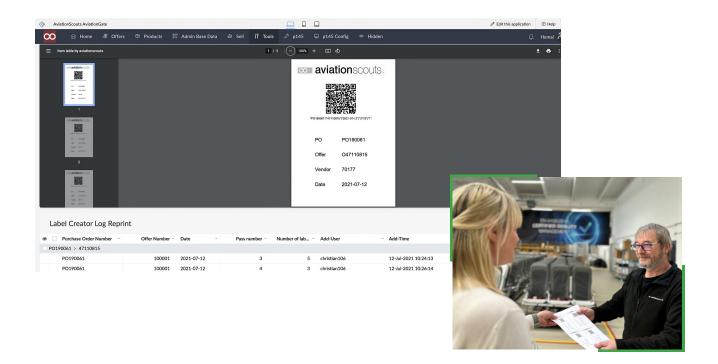


Stage 4: Warehousing

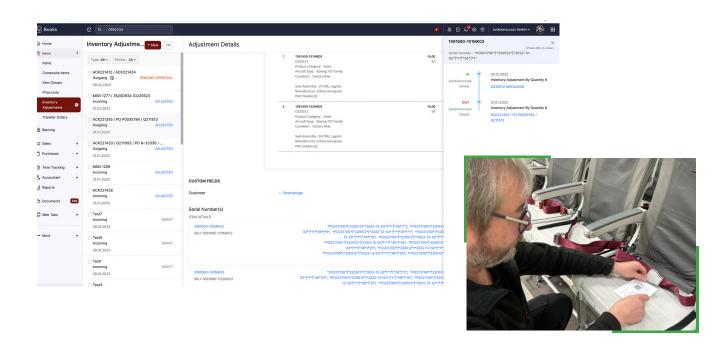
Once the project managers sign off on the shipment, the exact number of labels are created and printed. The "label creator" module is used for each procured item to create labels against each PO.

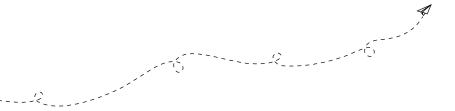


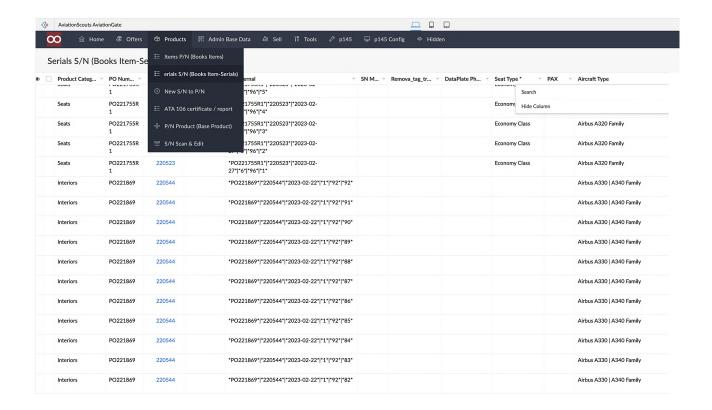




Each of these labels summarizes important details like part numbers and the serial numbers of parts. The system verifies the PO number with Zoho Books in the backend. Every time an item is moved to the inventory, a QR code label is created to enable the goods inwards team to scan and verify items in stock.









Before Creator, we didn't have auto-generated numbers in the 'offer numbers' field—this is a unique number we give to each item. Every time this offer number is created, it also syncs data with Zoho Books and with Zoho CRM. If the sales team creates an estimate for a non-inventory item, it automatically gets created in the CRM, too.



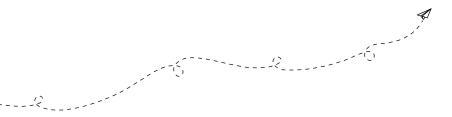
Hemal Bharadva,Director of Engineering and Operations, aviationscouts GmbH



Implementation by Natalie Söll Vertrieb GmbH

The team at aviationscouts needed a robust solution that could help track the aircraft's configuration and map the associated parts. Solution experts at Natalie Söll Vertrieb GmbH helped kickstart digital transformation initiatives at aviationscouts and supported the integration with Zoho Inventory.







When we first met the team at aviationscouts, they were intrigued by the capabilities and level of complexity that Zoho Creator could handle. During our initial on-site discussions, the team at aviations couts wanted help with an inventory solution. We presented an extensive demo and developed an application based on the requirements gathered on site.



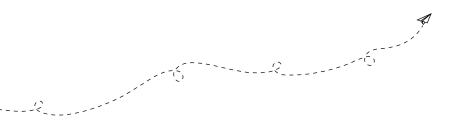
George Baltatescu,
 Senior Software Developer, Natalie Söll Vertrieb GmbH

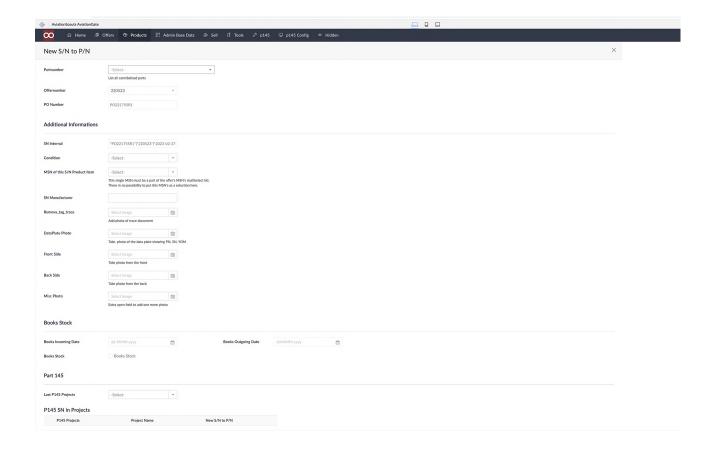


The solution scope was evolving, and Mr. Baltatescu had to adjust how the database could be structured based on the company's internal terms. Bi-directional relations in the database had to be set up to map every seat to a particular part of the aircraft. This was a critical aspect of tracking, as the QR codes and labels of every component received from the supplier had to be generated. Furthermore, the team at aviations couts GmbH received a detailed Zoho product understanding from the developers at Natalie Söll Vertrieb GmbH through training sessions.

Looking forward: The long runway ahead

The aircraft interiors MRO processes at aviations couts are unique, and the team is now developing a Part 145 shop maintenance application, which is in the early stages. They will create digital job cards and maintenance documents, which are used by mechanics, to fulfill cabin customization requests internally.







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About Zoho Creator

At Zoho Creator, we've always worked towards a single purpose—empowering users to build functional apps with minimal coding expertise. We've helped **14,000+** brands create bespoke solutions and improve their end-to-end operations across a variety of industries. With over **16 years of experience** in catering to **B2B and B2C organizations**, we have the best tools in the trade to help you improve your business.

You can get started with Creator by visiting our signup page. You can also check out our prebuilt apps to get started right away.

















www.zoho.com/creator

We'd love to talk! Reach out to us

hello@zohocreator.com

