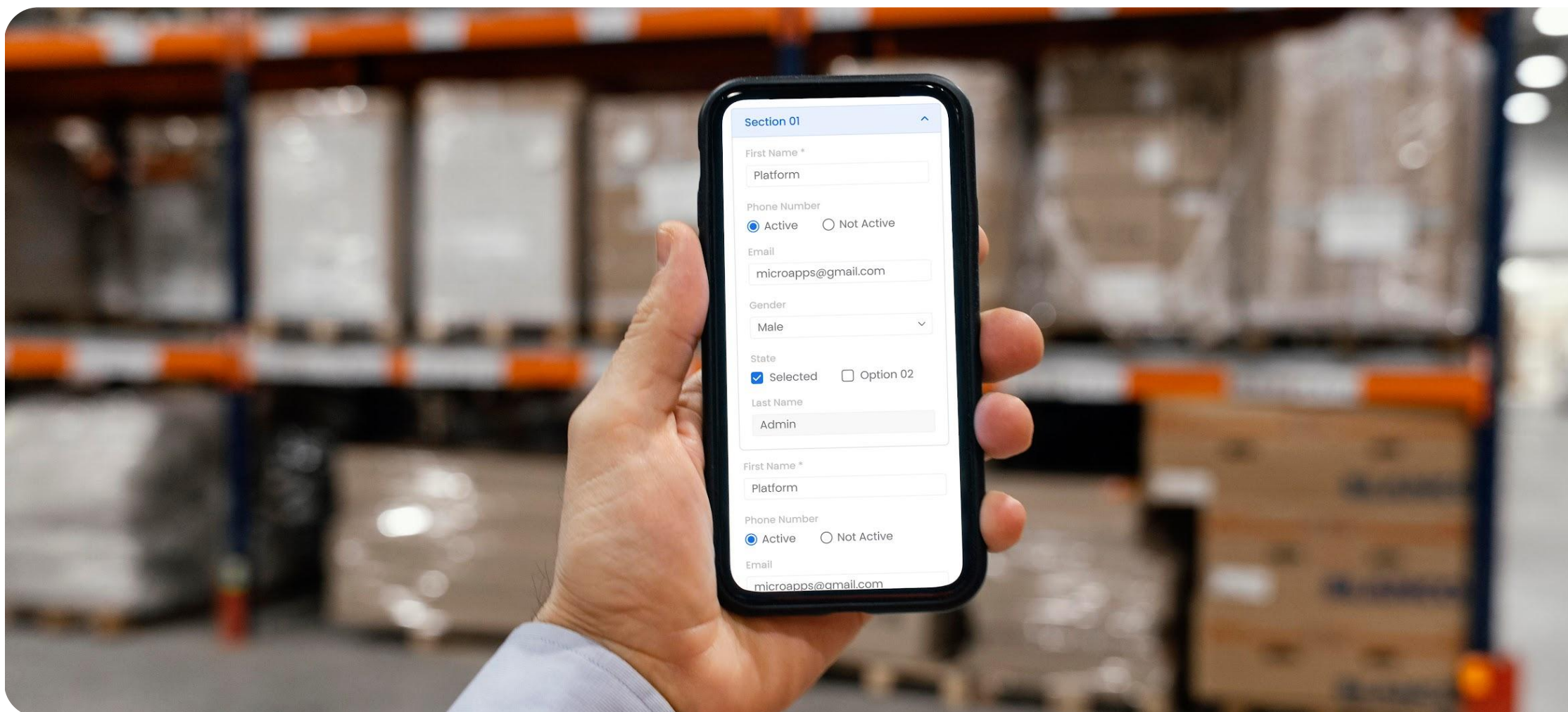


# Building an inventory management app using Rappit Composer no-code tooling

**Rappit Composer delivers streamlined inventory tracking through customizable no-code apps and workflows. Optimizing real-time updates and data integration for enterprises.**

Managing inventory efficiently is critical for businesses of all sizes. Inventory management refers to organizing, tracking, and managing stock levels, orders, and supply chains to ensure businesses have the right products available at the right time. Effective inventory management helps reduce costs, prevent stockouts or overstocking, and increase overall productivity. In this guide you will learn how you as citizen developer can build an inventory management app using Rappit Composer no-code tooling.



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# Why an inventory management app?

## Common challenges of manual processes or legacy inventory solutions

### Slow & inefficient operations

**The challenge:** Processes like receiving, packing, and shipping are slowed down by paper-based forms and manual labor. Rigid standard solutions require numerous manual workarounds for non-standard processes.

**The impact:** Increased labor costs, longer order fulfillment times, reduced warehouse throughput, and delays across the supply chain. This directly affects operational efficiency and speed.

### Inaccurate stock levels & data discrepancies

**The challenge:** Manual counting, data entry errors, and delayed updates lead to discrepancies between physical stock and recorded inventory. Standard systems often can't handle real-time changes or complex movements.

**The impact:** Inaccurate stock counts result in stockouts, overstocking, and inefficient warehouse utilization. This directly impacts revenue and profitability.

### High labor costs & human error

**The challenge:** Relying heavily on manual data entry for inventory movements, adjustments, and reconciliation requires significant human resources. Repetitive tasks increase the likelihood of errors.

**The impact:** Increased operational expenditure (salaries, overtime) and financial losses due to errors (e.g., mis-shipments, incorrect billing, inventory write-offs).

### Lack of real-time visibility & insights

**The challenge:** Data is often siloed, updated in batches, or trapped in physical documents, preventing a real-time, consolidated view of inventory across locations (stores, warehouses, in-transit).

**Impact:** Inability to make timely, data-driven decisions on purchasing, promotions, transfers, or demand forecasting. This leads to missed sales opportunities, inefficient capital allocation, and reduced responsiveness to market changes.



Effective inventory management is crucial for business success, ensuring the right products are available in the correct amounts and at the necessary times. Poor management can lead to financial losses and customer dissatisfaction. Development tools like Rappit Composer can significantly simplify this process. By maintaining a balanced inventory, businesses can avoid these pitfalls.

Let's explore the foundational principles and essential metrics for mastering inventory management.

Knowing your inventory – what you have and its location – is the core of inventory tracking. This prevents stockouts and overstocking. Getting started involves:



### SKU numbers

Unique identifiers for each product.



### Inventory software

Utilize no-code tooling like Rappit Composer for real-time inventory visibility.

Using an inventory management app helps businesses stay organized, fulfill customer demand efficiently, and minimize waste.

## Typical business benefits of an inventory management app:

### Reduced overstock



up to **25% decrease** in overstock within months

### Quicker turnaround



up to **50 % faster** inventory turnover rate

### Better accuracy



**99% inventory accuracy**, minimizing errors

# Introduction to Rappit Composer

With Rappit Composer, a powerful no-code and workflow platform, you build an inventory management application without code and only functional expertise.

## The advantages include:



### Citizen development

Empower business users and non-technical teams to create applications without relying on IT.



### Scalability

Easily modify and expand applications as business needs evolve.



### Drag-and-drop form builder

Easily create and customize pages using an intuitive drag-and-drop interface, simplifying UI design.



### Rapid development

Speed up application creation by simply uploading an Excel sheet to generate an app instantly with the needed tables, pages, workflows and dashboards.



### Lower costs

Reduce development costs.



### Easy integration

Connect with external systems and services to enhance application functionality.

## Chapter 3

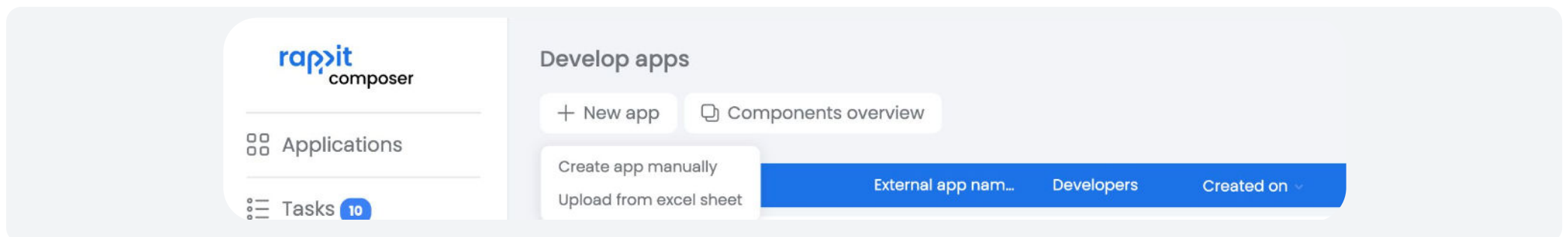
# Building an inventory management app in Rappit Composer

In the steps below, we outline the core features of Rappit Composer that help create an effective inventory management solution. Here's how Rappit Composer helps you master inventory management:



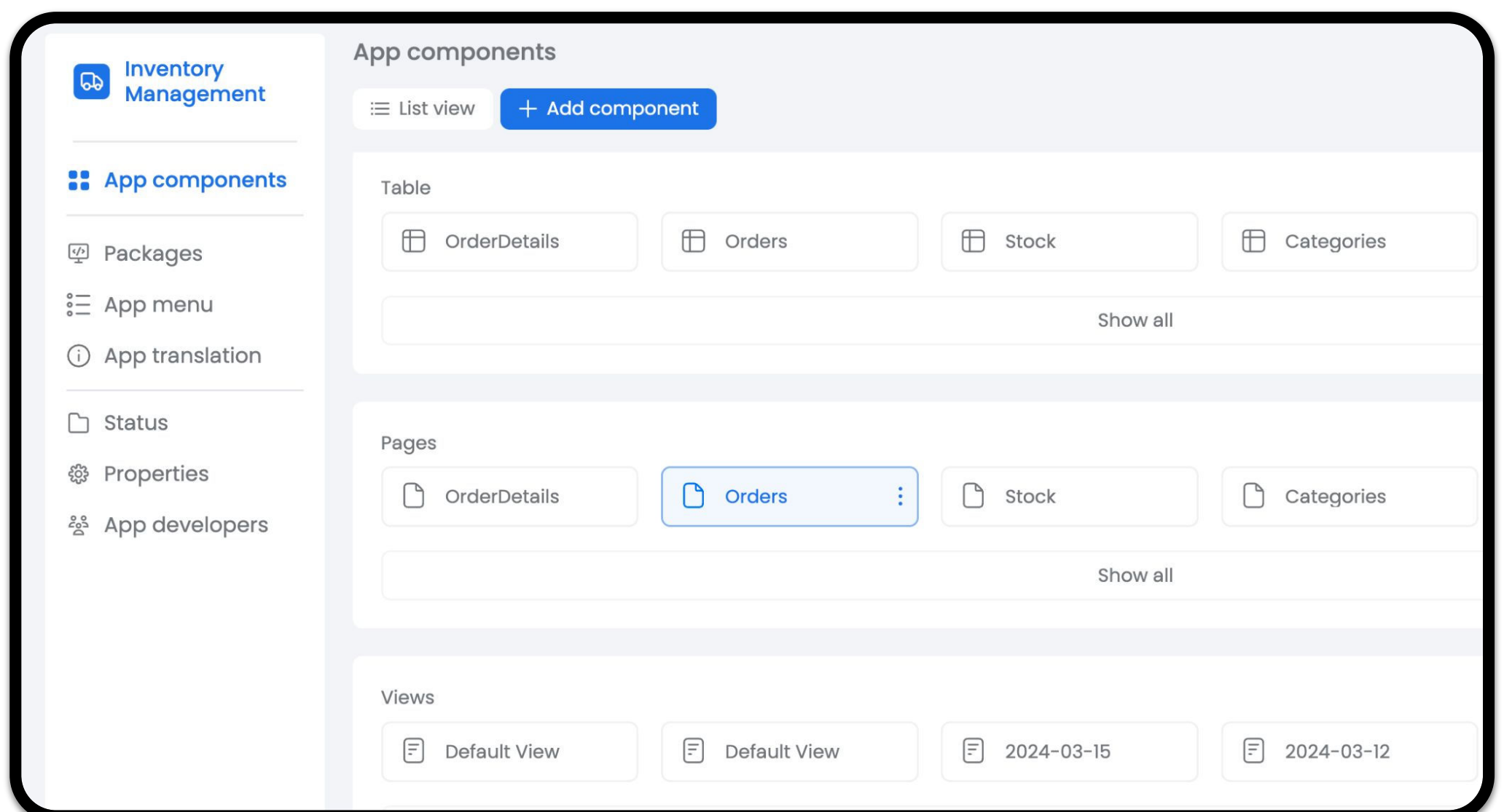
# 1. Database structure: From spreadsheets to a scalable app

Many citizen developers are accustomed to maintaining inventory data in spreadsheets—manually updating stock levels, tracking orders, and managing suppliers. While spreadsheets offer flexibility, they can become cumbersome as businesses scale. Rappit Composer eliminates these challenges by transforming static spreadsheets into a dynamic, database-driven application.



## Rappit Composer simplifies database table creation and management with an intuitive table structure

- Users can either manually define key tables such as Products, Suppliers, Customers, Orders, and Stock or automate the process by uploading an Excel file. Rappit Composer intelligently converts each sheet into a structured table, automatically establishing relationships and importing the associated data.
- Specify data types for each field (e.g., text, number, date, etc.).
- The images below show the components (Tables, Pages, Workflows, Views, Dashboards, and mail templates created automatically by uploading a sheet



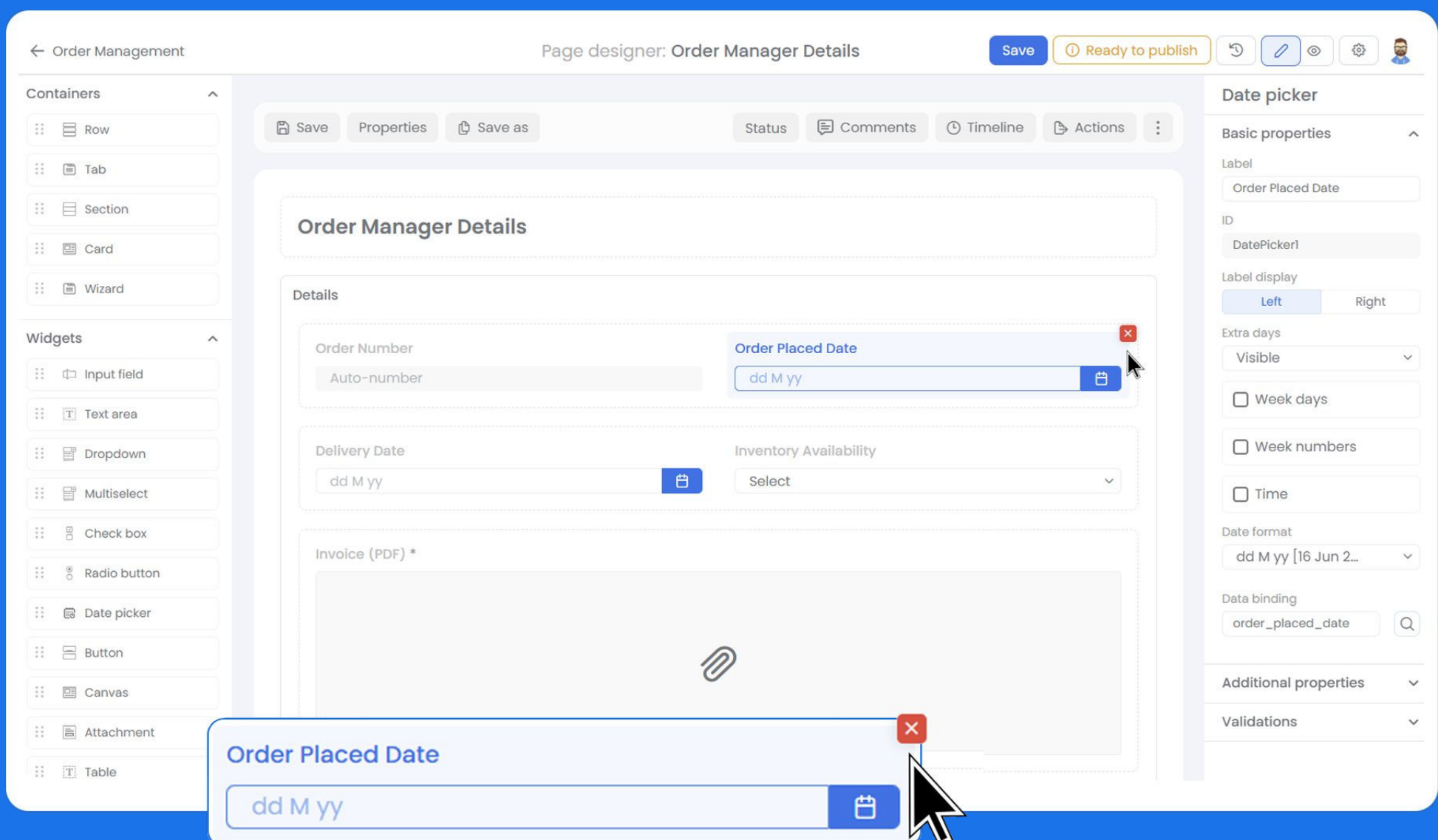
## 2. Designing the user interface with pages

The user interface (UI) is essential for managing inventory efficiently. Rappit Composer allows you to design UI pages effortlessly using the page designer:

- Use the drag-and-drop form builder to drag and drop widgets, containers, and elements to the pages.
- Create pages for product listings, order management, and stock tracking.
- Enable forms for adding, updating, and deleting inventory and other master data records



The image below shows the drag-and-drop form modeler with various widgets:

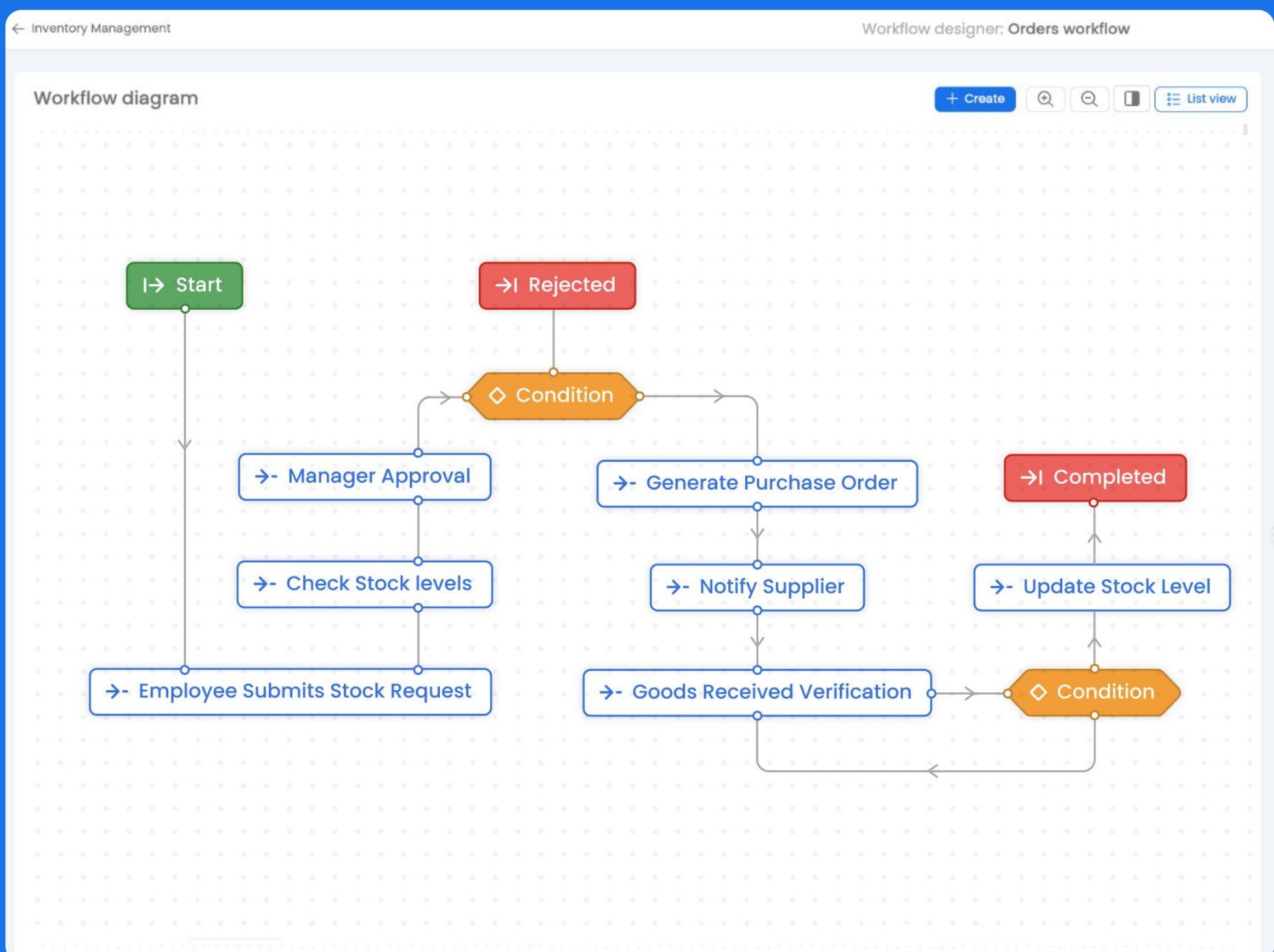


### 3. Automating processes with workflows

Workflows ensure that inventory management processes run smoothly, from order creation to stock updates. Configure workflows in Rappit Composer using graphical flowcharts and textual representations:

- Automate inventory updates when an order is placed.
- Trigger notifications for every order placed.
- Trigger alerts when stock reaches a minimum threshold.
- Define approval processes for order requests.
- View the workflow timeline and track all revisions for the order to monitor changes and updates.
- Manual calculations can be exhausting. With Rappit Composer, calculations are handled automatically, reducing errors and inefficiency:
  - Automatic reorder point calculations signal when it's time to replenish stock.
  - Sales trend analysis helps accurately forecast future inventory requirements.
  - Automated workflow triggers using schedulers generate purchase orders or send alerts.

The image below shows a sample stock submission request from the warehouse staff:



## 4. Native mobile support for Android and iOS

With Rappit Composer, your inventory management application is accessible on mobile devices:

- Real-time inventory tracking and updates.
- Offline mode support for low-connectivity areas like warehouse dungeons for data entry and resyncing data back when the internet is available.



## 5. Use the scheduler feature to automate the inventory management

- Schedule alerts and reminders for periodic stock checks, maintenance, or reordering supplies.
- Trigger automated emails to suppliers when inventory reaches critical levels, ensuring timely restocking.

## 6. Creating an interactive dashboard

Dashboards provide a real-time graphical representation of inventory stock data, allowing managers to make informed decisions:

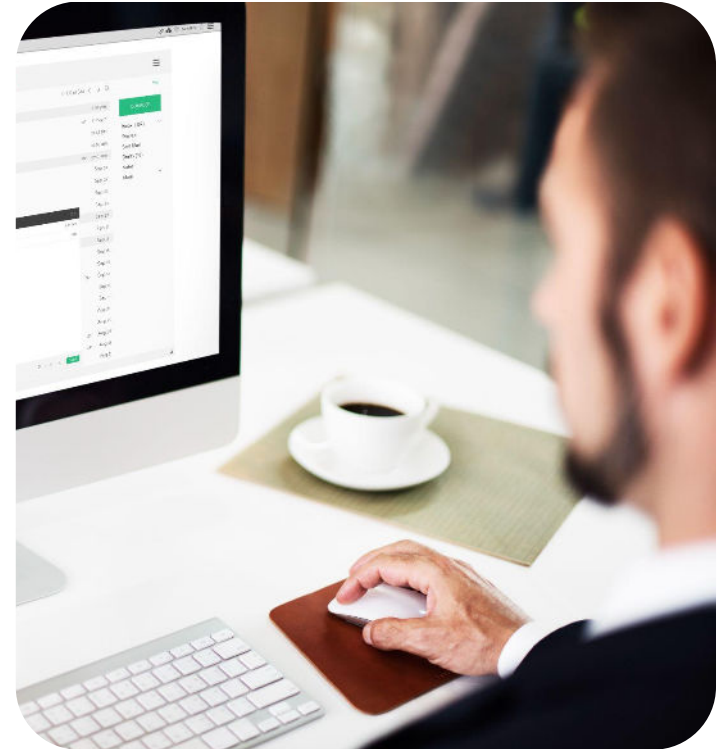
- Use Rappit Composers' Dashboard functionality to build charts to analyze the stock levels and order details.
- Customize the dashboard to show relevant metrics for different users.



## 7. Email templates for notifications

Email templates streamline communication within the inventory system:

- Create and customize email templates for order confirmations, restock alerts, and customer notifications.
- Utilize default templates or design new ones based on business needs.
- Automate email triggers within workflows.



## 8. Integrating external web services

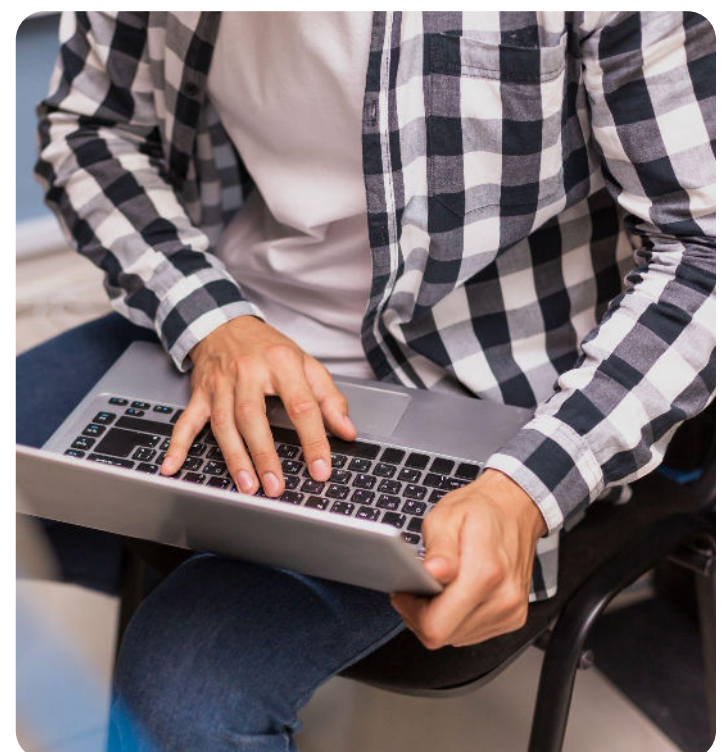
To enhance functionality, integrate external web services for seamless communication between applications:

- Enable real-time synchronization between inventory and sales applications, such as the e-commerce applications like Shopify or Amazon marketplaces.
- Share data across platforms without exposing sensitive information.
- Leverage Rappit Composer's external web service capabilities to connect with third-party services.

## 9. Configuring web service connections

Securely connect with different applications using various authentication methods:

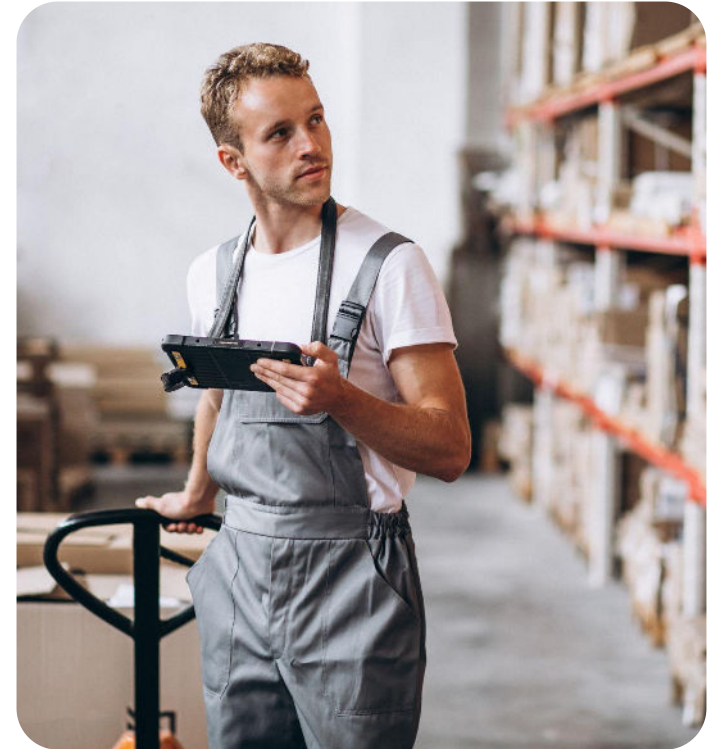
- Use basic authentication, API keys, or OAuth 2.0 for secure access.
- Establish multiple connections for different external services.



## 10. Role-based access control with application menu

Restrict access to certain features based on user roles in Rappit Composer:

- Define roles such as Admin, Manager, and Staff.
- Assign permissions to control which menus users can access.
- Enable or disable menu options based on user privileges.



## 11. Securing your data

Rappit Composer ensures comprehensive security with features including data encryption at rest and in transit, automated backup and recovery, authentication and authorization layers, and audit trails that track each record change through revisions.

## 12. Multi-language support with application translation

Enhance usability by supporting multiple languages:

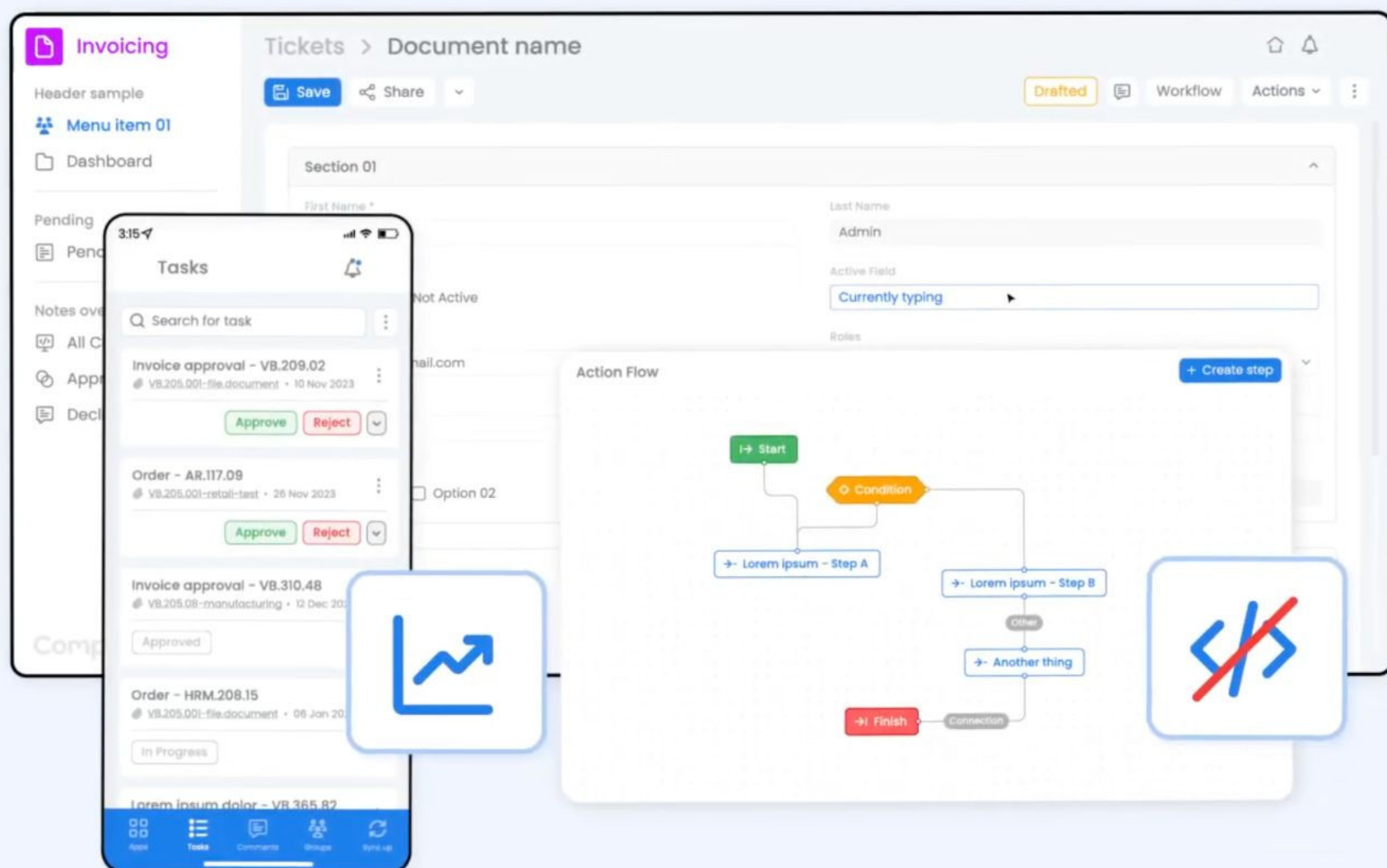
- Generate translations for labels, workflow actions, and menus.
- Customize labels to meet regional language preferences.



## Chapter 4

# Conclusion

Building an inventory management application using Rappit Composer streamlines business operations with minimal effort. By leveraging database tables, intuitive UI design, workflow automation, dashboards, and integrations, you can create a powerful and scalable solution tailored to your business needs.





## Take a deeper dive

Start your Rappit journey today and transform inventory management efficiently! Get in touch with our experts to learn more about Rappit Composer's capabilities and pricing.

Rappit is a leading independent software provider. Building on a proud heritage, we are experts in developing Cloud based Enterprise Software modernization solutions, that include Custom Made Applications, Data Analytics, Artificial Intelligence and Machine Learning. Based on the Rappit Platform, consisting of amongst others Rappit Developer and Rappit Composer, we enable our customers to create unique business value.

Rappit serves a customer base consisting of multinationals and medium sized organizations, mainly in the Manufacturing, Supply Chain & Logistics and Retail & Wholesale industries. Our Rappit Platform also supports software development companies and System Integrators in building world-class applications.

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