

# HCLSoftware

## The Journey of an app

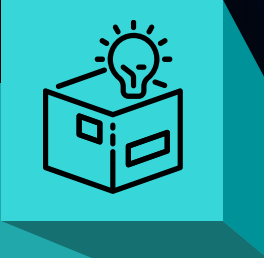
Richard Jefts



# HCL Software Solutions 2024

## Specialist & Niche Products

Purpose built solutions for edge/niche use cases

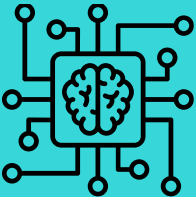
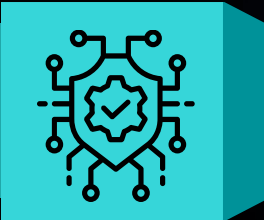


## HCL Total Experience

Orchestrating delight on a platform of trust

## Cybersecurity Solutions

Secure DevOps & compliance, applications to endpoints

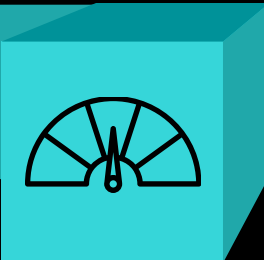


## Intelligent Operations

From human led to AI led operations

## Business & Industry Solutions

CX that drives conversions, revenue and loyalty



## Data & Analytics

Enable confident, data driven organisations



# The most popular formula-based app in the world

## Excel Usage

Business Analysis  
People Management  
Managing Operations  
Performance reporting  
Office Administration  
Strategic Analysis  
Project Management  
Managing Programmes



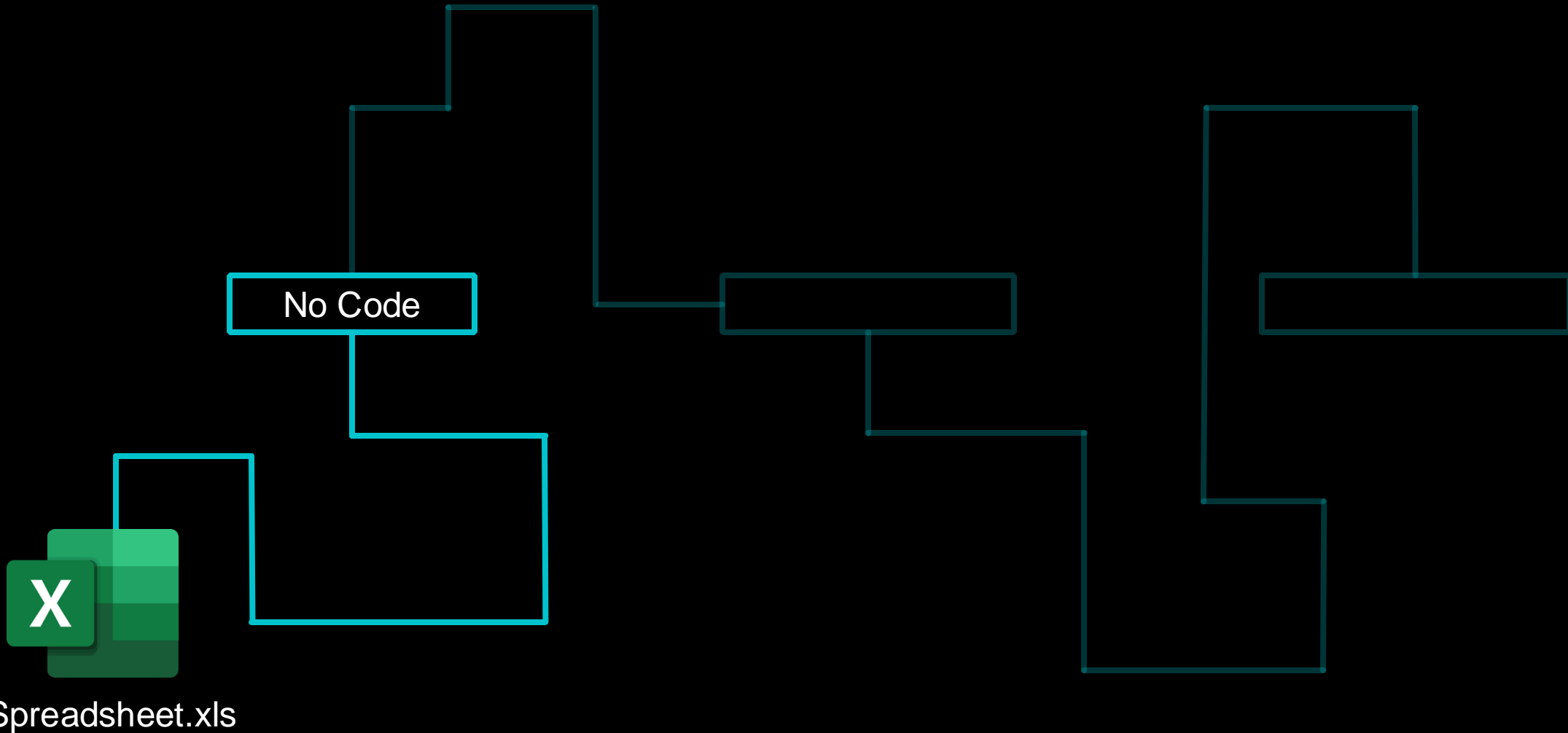
*“Between  
**30% and 50%**  
of organizations are  
using spreadsheets for  
tasks that could be  
better served by  
dedicated applications”*

Ease of data entry

Ease of sharing and sending

Ease of correction

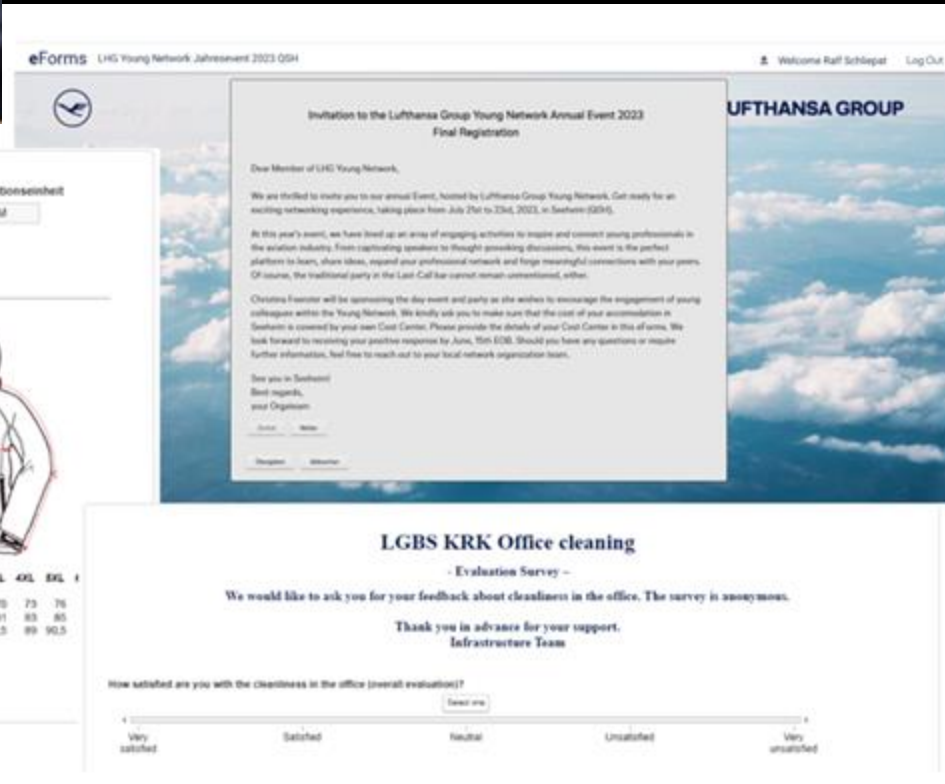
# The Journey of an app



# Examples of No Code apps



- Personalised name badges
- Crew uniform Ordering
- Event app
- Office Cleaning Survey



The screenshots show three different no-code applications:

- Registration Form:** A form for 'Lufthansa Group Young Network Annual Event 2023' with fields for 'Vorname' (Ralf), 'Nachname' (Schliepat), 'Organisationsseinheit' (HAMEOM), and 'E-Mail-Adresse' (ralf.schliepat@lufthansa.de). It includes a gender selection (Herren/Male selected) and a size selection dropdown (M selected). A jacket image and a size chart are also visible.
- Event Invitation:** An email-style invitation titled 'Invitation to the Lufthansa Group Young Network Annual Event 2023 Final Registration'. It includes a personalized greeting to 'Ralf Schliepat' and details about the event in Seeburn.
- Office Cleaning Survey:** A survey titled 'LGBS KRK Office cleaning - Evaluation Survey'. It asks for feedback on cleanliness and includes a Likert scale from 'Very satisfied' to 'Very unsatisfied'.

The business has grown:

- 10000 users now
- Database holding 2500 apps

# No Code



Dashboard

Staff

Payment Voucher

Payroll

Memo

Circulars

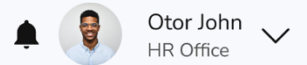
Maintenance

Logistics

Office Budget

## Memo

Create and send memos to designated offices.



300

Total memo

Quick search a memo

Enter search word



Filter memo

All memos



Create Memo

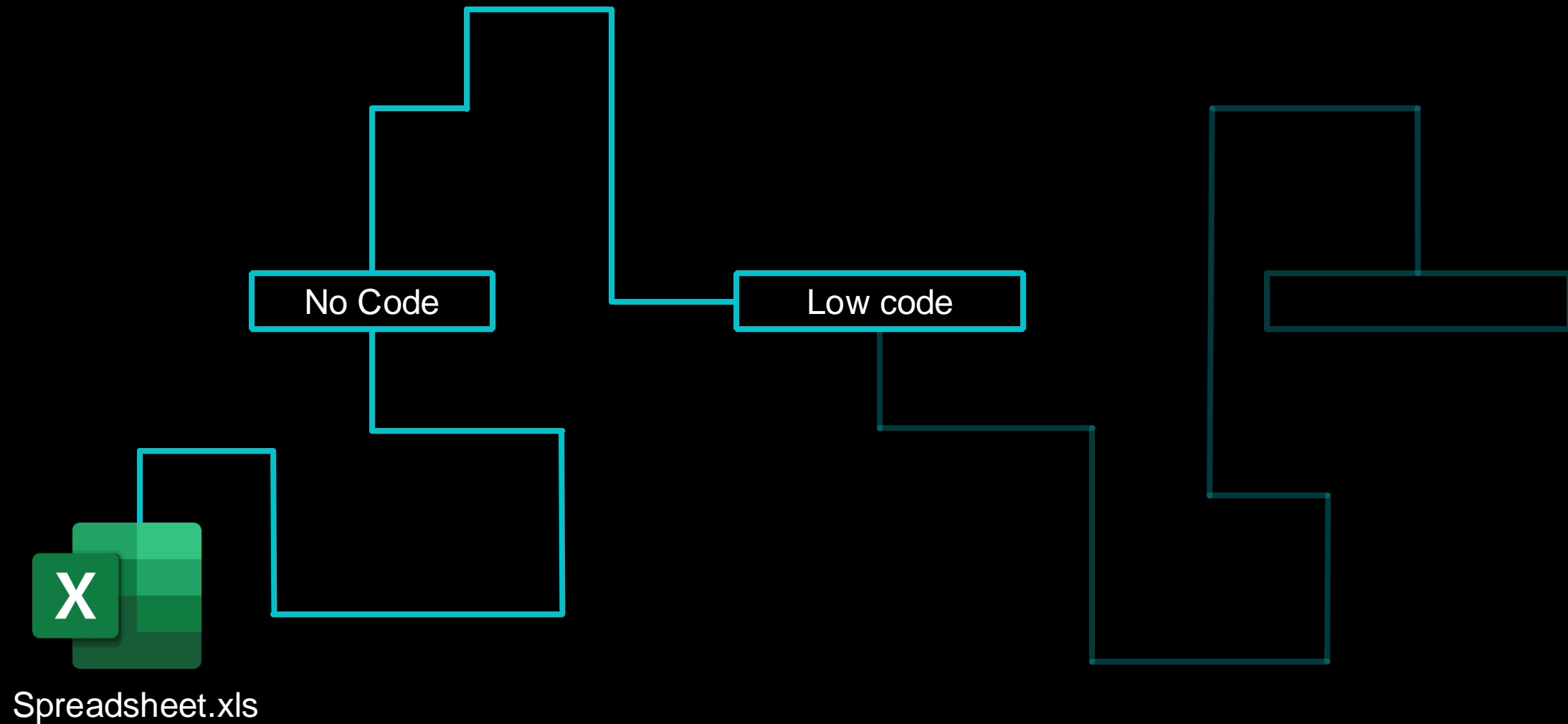
## All Memos

Showing 16 per page

S/N	Memo Title	Sent From	Sent To	Date	Attachment?	Memo Type	Action
01	Operations memo	Williams Achegbani	Chief Operations Officer	16/11/2022	Yes	Sent ↗	<a href="#">View more</a>
02	Operations memo	Williams Achegbani	Chief Operations Officer	16/11/2022	No	Sent ↗	<a href="#">View more</a>
03	Operations memo	Williams Achegbani	Chief Operations Officer	16/11/2022	No	Sent ↗	<a href="#">View more</a>
04	Operations memo	Williams Achegbani	Chief Operations Officer	16/11/2022	Yes	Received ↘	<a href="#">View more</a>
05	Operations memo	Williams Achegbani	Chief Operations Officer	16/11/2022	Yes	Sent ↗	<a href="#">View more</a>
06	Operations memo	Williams Achegbani	Chief Operations Officer	16/11/2022	Yes	Sent ↗	<a href="#">View more</a>



# The Journey of an app



# Enterprise class app example **low/pro code**

The dashboard displays various metrics and reports for a store named 'Hey Mariana'. It includes a sidebar with navigation options like Dashboard, Analytics, Performance, Hotjar, Tickets, Agents, Customers, Products, Orders, and Reports. The main content area features a 'Sales Report' with a line chart showing monthly sales from February to January, with a callout for June 2021 sales of \$45,591. Other sections include 'Traffic Sources' with a bar chart for Direct, Referral, Social Media, and Twitter; 'Transactions' with a table of recent payments; and 'Recent Customers' with a list of names, emails, and total sales.

**ClarityUI** | Type to search | [2] [Bell] [Profile]

**Hey Mariana** – here's what's happening with your store today

[+ Connect New Account](#)

- Dashboard
- ANALYTICS
- Performance
- Hotjar NEW
- SUPPORT
- Tickets 15
- Agents
- Customers
- SHOP
- Products
- Orders
- Reports

**TODAY'S SALE**  
**\$12,426** +36% ↑

**TOTAL SALES**  
**\$2,38,485** +14% ↓

**TOTAL ORDERS**  
**84,382** +36% ↑

**TOTAL CUSTOMERS**  
**33,493** +36% ↑

**Sales Report** | 12 Months | 6 Months | 30 Days | 7 Days | [Export PDF](#)

June 2021  
**\$45,591**

Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan

**Traffic Sources** | Last 7 Days

Direct	1,43,382
Referral	87,974
Social Media	45,211
Twitter	21,893

**Transactions** | [See All Transactions](#)

Completed

● Completed	Visa card **** 4831 Card payment	\$182.94 Jan 17, 2022	Amazon	...
● Completed	Mastercard **** 6442 Card payment	\$99.00 Jan 17, 2022	Facebook	...

Pending

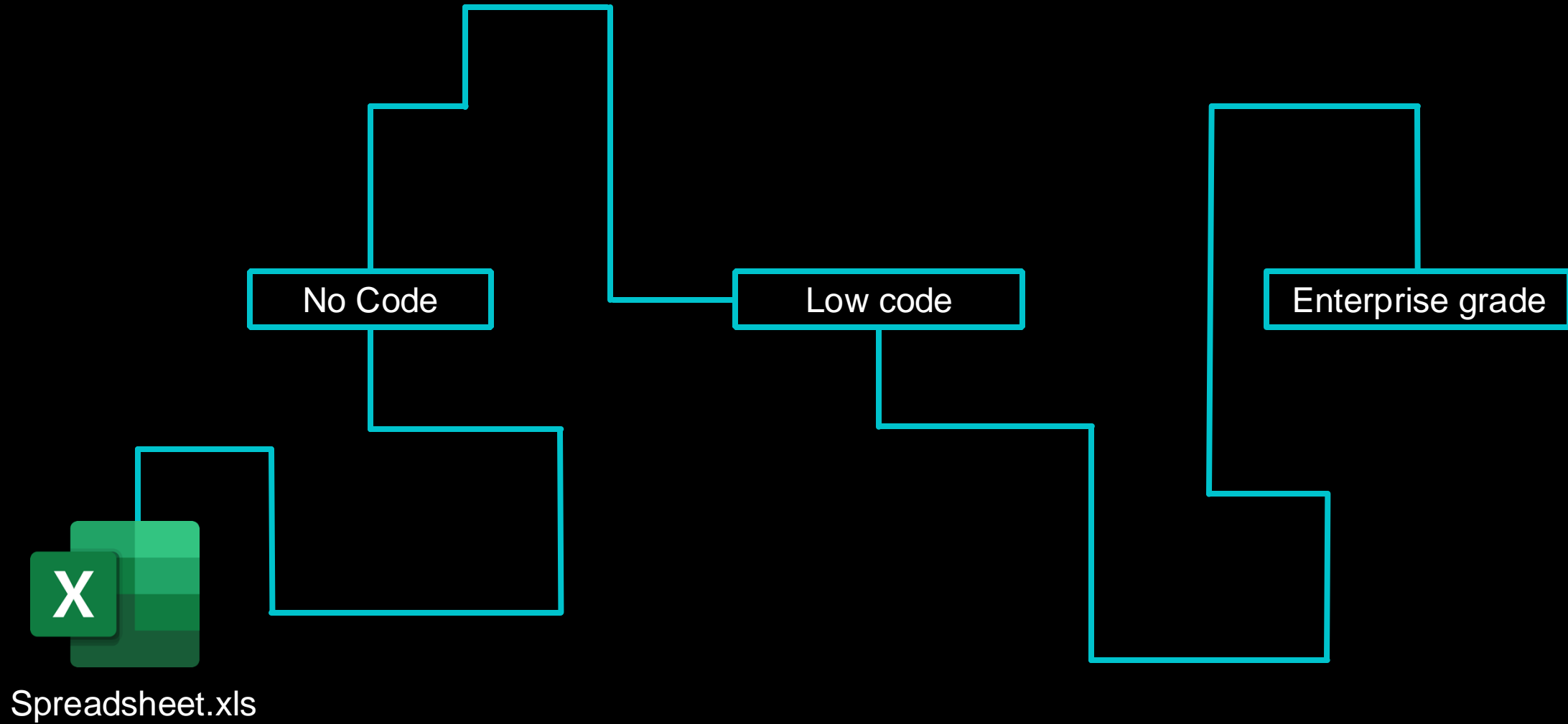
● Pending	Account ****882	\$249.94	Netflix	...
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**Recent Customers**

Recent Customers

	<b>Jenny Wilson</b> w.lawson@example.com	\$11,234 Austin
	<b>Devon Lane</b> dat.roberts@example.com	\$11,159 New York
	<b>Jane Cooper</b> jgraham@example.com	\$10,483 Toledo

# The Journey of an app



# Content driven Enterprise Grade

HCL UDP | Design | Storyboard | Workflow | Mode: Pro Code | John Jacob

Expense Report | Web | iphone X (1125 x 2436) | 100% | Preview | Digital Asset Manager

Project | Skins | Templates

Project Settings

Web

Pages

- Homepage
- My expense reports
- Needs Approval

Forms

- Create Expense Report
  - Report form
  - Image
  - Text: Expense Report
  - Text Field: Name
  - Button: Submit

Other Resources

Test Resources

Components | Assets

- HTML
- Picture
- Media

Actions

- Button

**Lufthansa** | Search product, supplier, order

**Airbus A320 Family Wingtip Light Lense Cover** | Edit | Download

Overview | Purchases | Adjustments | History

**Primary Details**

Product name	320Alense
Product ID	456567
Product category	Wing tips
Expiry Date	13/4/25
Threshold Value	12

**Supplier Details**

Supplier name	Airbus
Contact Number	98789 86757

**Stock Locations**

Store Name	Stock in hand
LHR_D1_B2	15
LHR_D6_B2	19

Dashboard | Inventory | Reports | Suppliers | Orders | Manage Store | Settings | Log Out

Name

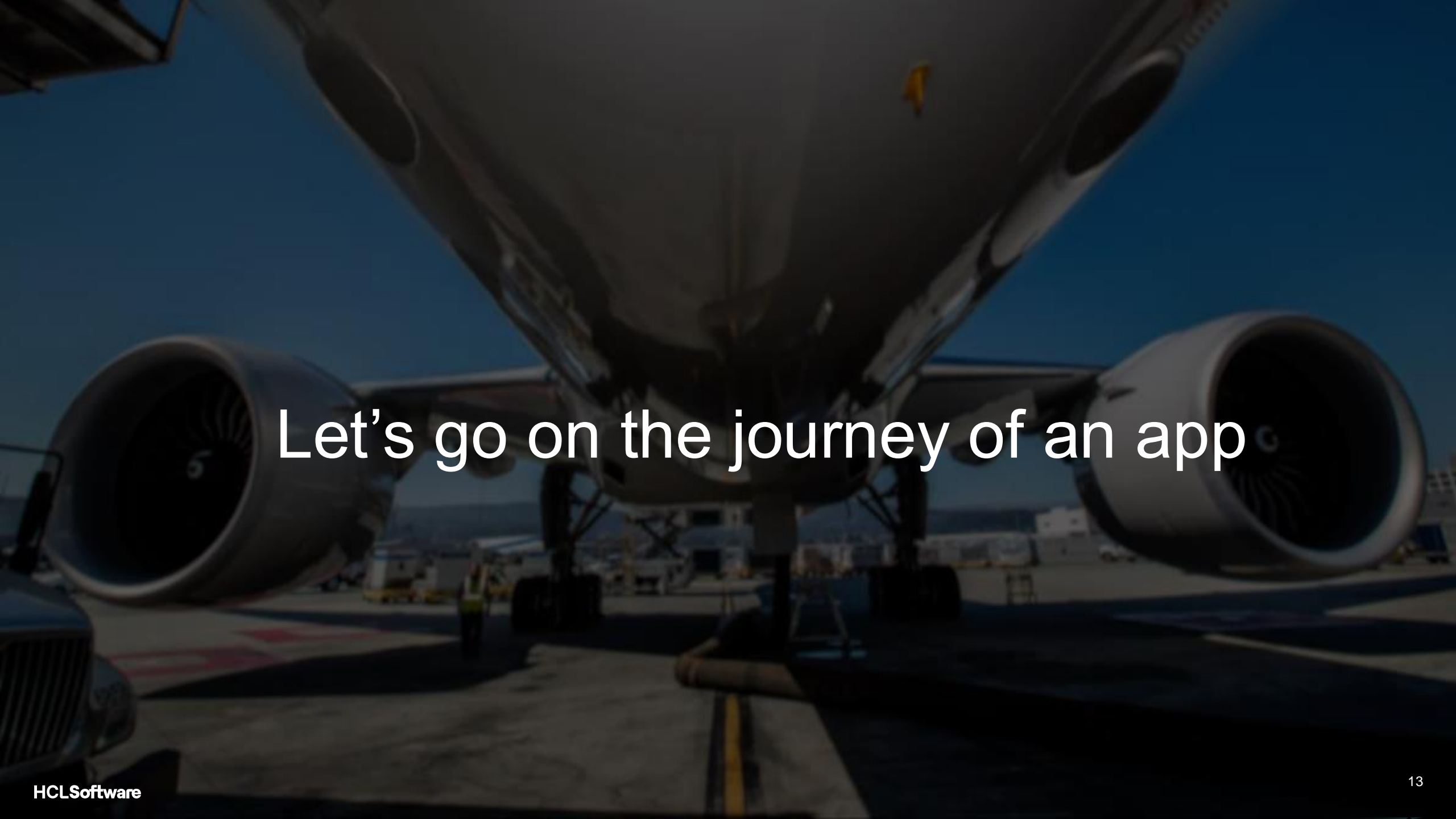
Bowl image

ID

Properties | Events | Data

Look | Skin | Image | Review

- Airbus A320 Butterfly | Dec 31, 2024
- A320 GNADIRS Panel | Dec 31, 2024
- Airbus MCDU | Dec 31, 2024
- F/O Nose Wheel Steer | Dec 31, 2024
- Airbus A320 Jumpseat | Dec 31, 2024
- Engine Exhaust Plug | Dec 31, 2024



Let's go on the journey of an app



# The A320 app journey

# A spreadsheet for an Engineer

AutoSave | A320-WingParts

Home | Insert | Draw | Page Layout | Formulas | Data | Review | View | Automate

Clipboard: Paste, Cut, Copy, Format

Font: Aptos Narrow (Bod...), 12, Bold, Italic, Underline, Color, Background Color

Paragraph: Wrap Text, Merge & Centre

Styles: Normal, Bad, Good, Neutral, Calculation, Check Cell, Explanatory T..., Input, Linked Cell, Note

Formulas: Conditional Formatting, Format as Table

Cell: A1, fx Component

Component	Part Name	Description	Additional Information	Weight (kg)	Dimensions (m)
Wings	Access Door	Provides access to internal components	Lockable	2	0.5 x 0.5 x 0.1
Wings	Actuator	Device for moving control surfaces	Hydraulic	5	0.5 x 0.2 x 0.2
Wings	Aileron	Control surface for roll control	Electrically actuated	12	2.5 x 0.4 x 0.2
Wings	Bonding Strap	Ensures electrical continuity	Conductive material	0.1	0.5 x 0.05 x 0.01
Wings	Bracket	Supports various components	Aluminum alloy	0.5	0.2 x 1.3 x 0.05
Wings	Bus Bar	Distributes electrical power	Copper	0.5	0.5 x 0.05 x 0.01
Wings	Circuit Breaker	Protects electrical circuits	Resettable	0.1	0.1 x 0.05 x 0.05
Wings	Clevis Pin	Secures components together	Corrosion-resistant	0.1	0.1 x 0.05 x 0.05
Wings	Connector	Joins electrical wires	Quick-disconnect	0.1	0.1 x 0.05 x 0.05
Wings	De-icing Boot	Prevents ice formation	Inflatable rubber	0.1	0.1 x 0.05 x 0.05
Wings	Drain Mast	Allows drainage of fluids	Corrosion-resistant	0.1	0.1 x 0.05 x 0.05
Wings	Drain Valve	Allows drainage of fluids	Corrosion-resistant	0.1	0.1 x 0.05 x 0.05
Wings	Electrical Wiring	Transmits electrical power and signals	Shielded cable	0.1	0.1 x 0.05 x 0.05
Wings	Fairing	Aerodynamic cover for joints	Composite material	0.1	0.1 x 0.05 x 0.05
Wings	Flap	Control surface for lift and drag	Hydraulically actuated	0.1	0.1 x 0.05 x 0.05
Wings	Fuel Line	Transports fuel	Flexible hose	0.1	0.1 x 0.05 x 0.05
Wings	Fuel Pump	Transfers fuel	Electrically powered	0.1	0.1 x 0.05 x 0.05
Wings	Fuel Tank	Internal storage for fuel	Integral to wing structure	0.1	0.1 x 0.05 x 0.05
Wings	Fuse	Protects electrical circuits	Replaceable	0.05	0.05 x 0.05 x 0.02
Wings	Ground Fault Interrupter	Protects against electrical faults	Sensitive to leakage current	0.2	0.1 x 0.05 x 0.05
Wings	Grounding Lug	Connects to grounding system	Copper	0.05	0.1 x 0.05 x 0.01
Wings	Heat Shield	Protects against high temperatures	Ceramic composite	1	0.5 x 0.5 x 0.05
Wings	Hydraulic Line	Transports hydraulic fluid	High-pressure hose	1.5	2.0 x 0.05 x 0.05
Wings	Inspection Panel	Access point for maintenance	Removable	1	0.5 x 0.5 x 0.05
Wings	Insulation Blanket	Thermal and acoustic insulation	Fiberglass	2	2.0 x 1.0 x 0.05
Wings	Leading Edge	Front edge of the wing	Aluminum alloy	6	10.0 x 0.3 x 0.1
Wings	Lightning Diverter	Protects against lightning strikes	Conductive material	0.5	0.3 x 0.05 x 0.01
Wings	Nut Plate	Holds nuts in place	Stainless steel	0.05	0.05 x 0.05 x 0.01
Wings	Pitot Tube	Measures airspeed	Heated to prevent icing	0.3	0.2 x 0.05 x 0.05
Wings	Pressure Relief Valve	Releases excess pressure	Spring-loaded	0.3	0.1 x 0.05 x 0.05
Wings	Relay	Electrically operated switch	Electromechanical	0.3	0.1 x 0.05 x 0.05
Wings	Rib	Structural component providing shape and support	Made of aluminum alloy	2.5	1.2 x 0.5 x 0.1
Wings	Rivet	Fastening component	Aluminum	0.01	0.02 x 0.02 x 0.02
Wings	Sealant	Prevents fluid leakage	Flexible polymer	0.3	0.1 x 0.05 x 0.05
Wings	Shear Pin	Fails under excessive load to protect structure	High-strength steel	0.2	0.1 x 0.02 x 0.02
Wings	Skin Panel	Outer covering of the wing	Aluminum sheet	8	2.0 x 1.5 x 0.005
Wings	Slat	Leading edge device for lift enhancement	Pneumatically actuated	10	2.0 x 0.3 x 0.2
Wings	Spar	Primary structural member running spanwise	High-strength composite material	15	10.0 x 0.2 x 0.3
Wings	Spoiler	Reduces lift and increases drag	Hydraulically actuated	8	2.0 x 0.5 x 0.2
Wings	Static Port	Measures static air pressure	Flush-mounted	0.1	0.1 x 0.05 x 0.01

✗ Is it up to date?

✗ Who updated it?

✗ Which version is this?

# Welcome to HCL Leap

The screenshot displays the HCL Leap web application interface. At the top, there is a dark navigation bar with the HCL Leap logo on the left, the text 'Use Manage' in the center, and a user profile icon labeled 'wpsadmin' on the right. Below the navigation bar, a white header area contains a blue button labeled 'New Application' and a search input field. The main content area features a large white modal dialog with a close button (X) in the top right corner. The modal has the title 'Welcome to HCL Leap' and a paragraph of text: 'Quickly build and deploy compelling, interactive data collection applications. Solutions designed with HCL Leap are agile and easily modified to accommodate changing business requirements.' Below the text are four action cards, each with an icon and a title: 1. 'Create a new app' with a plus icon and the description 'Design a solution to fit your needs.' 2. 'Import an app' with a right-pointing arrow icon and the description 'Start with an existing "HCL Leap" app.' 3. 'Overview video' with a play button icon and the description 'Learn basic concepts of "HCL Leap."' 4. 'Tutorials' with an information icon and the description 'Follow tutorials to help you get started.'



# Import your spreadsheet

HCL Leap    Use **Manage**    ?    wpsadmin

Edit | Deploy | View Data | Launch | More

### Create a new app

Choose the way you want to create your application.

- From Blank**  
Start with an empty canvas to design the application you want.
- From Spreadsheet** ✓  
Create an application from an Excel spreadsheet and import the data.
- From Existing**  
Import an existing Leap application from a .leap file.

Cancel    Next

Forgot User ID    running

Last update: 5/10/24, 6:51 PM

# Import your spreadsheet

HCL Leap    Use    **Manage**    ?    wpsadmin

Edit | Deploy | View Data | Launch | More

### Create a new app


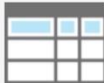
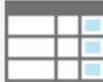

Progress: 1. Choose your Excel spreadsheet (selected) | 2. Choose fields, names, and types | 3. Enter new application details

#### Choose your Excel spreadsheet

Spreadsheet (.xls or .xlsx):

No file chosen

#### How to structure your spreadsheet

-  Data needs to be in table format.
-  Use the first row as a header.
-  Each column will become a field in the application.
-  Use multiple sheets for more than one table.

# Select your file

HCL Leap Use **Manage** Help wpsadmin

Last update: 9/2/24, 9:45 AM

Spreadsheets Search

Name	Date Modified	Size	Kind
A320-WingParts.xlsx	30 August 2024 at 12:07	14 KB	Microso...k (.xlsx)

Buttons: Show Options, Cancel, Open

# Confirm your file import

HCL Leap      Use **Manage**      ?      wpsadmin

Edit | Deploy | View Data | Launch | More

### Create a new app


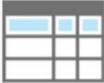
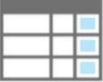

Progress: 1. Choose your Excel spreadsheet (selected) | 2. Choose fields, names, and types | 3. Enter new application details

#### Choose your Excel spreadsheet

Spreadsheet (.xls or .xlsx):

Choose file

#### How to structure your spreadsheet

-  Data needs to be in table format.
-  Use the first row as a header.
-  Each column will become a field in the application.
-  Use multiple sheets for more than one table.

# Confirm fields, names and types

HCL Leap      Use **Manage**      ?      wpsadmin

Edit | Deploy | View Data | Launch | More

### Create a new app

Progress: 1. Choose your Excel spreadsheet (Completed)    2. **Choose fields, names, and types** (Active)    3. Enter new application details

Sheets	Rows found
<input checked="" type="checkbox"/> A320-WingParts	49

Columns	Identified: 6   Selected: 6
<b>A320-WingParts</b> <a href="#">Select All</a>   <a href="#">De-select All</a>	
Name	Type
<input checked="" type="checkbox"/> Component	Single Line Entry
<input checked="" type="checkbox"/> Part Name	Single Line Entry
<input checked="" type="checkbox"/> Description	Single Line Entry
<input checked="" type="checkbox"/> Additional Information	Single Line Entry
<input checked="" type="checkbox"/> Weight (kg)	Number
<input checked="" type="checkbox"/> Dimensions (m)	Single Line Entry

# Enter new application details and basic theme

HCL Leap    Use    **Manage**    ?    wpsadmin

Edit | Deploy | View Data | Launch ▾ | More ⋮

### Create a new app

Choose your Excel spreadsheet    Choose fields, names, and types    **Enter new application details**

**\* Application Name:**  
A320-WingParts

**Application Description:**

**Tags:**

**Theme:**

- Flat Blue
- Light Gray
- Dark Blue
- Simple

Cancel    Back    Create

# App functionality right off the bat

The screenshot displays a low-code application builder interface for an application named "A320-WingParts". The interface is divided into several sections:

- Navigation:** The top left shows the breadcrumb "A320-WingParts > A320 > Page 1".
- App Pages:** A sidebar on the left lists "App Pages" with an "Add App Page" button and "Forms". Under "Forms", "A320-WingParts" is expanded to show "Page 1".
- Form Design:** The main workspace shows a form with several input fields: "Component", "Part Name", "Description", "Additional Information", "Weight (kg)", and "Dimensions (m)". A blue "Submit" button is located at the bottom left of the form.
- Flowchart:** A central flowchart illustrates the application logic. It starts with a "Start" node (Initiator), followed by a "Submit" node. From the "Submit" node, the flow branches into two paths: one leading to an "Update" node and another leading to a "Submitted" node (Administrator). Both paths then merge back into the "Submitted" node.
- Properties Panel:** On the right, the "Properties" panel for "A320-WingParts" (ID: F\_A320WingParts1) is visible. It includes a "Description" field, a "Label Alignment" dropdown set to "Top", and several checkboxes: "Show print and delete buttons" (checked), "Single submission per authenticated user" (unchecked), and "Call a service to pre-populate" (unchecked). The "Upon Submission" dropdown is set to "Show the success message page".

# It then became an e-form

Initial Import

After enhancement

Responses Summary

Customize Create Filters Refresh Data Export Data Import Data

Page 1 of 3

ID		Component	Part Name	Description	Additional Information	Weight (kg)	Dimensions (m)
0	✉️🗑️	Wings	Access Door	Provides access to internal components	Lockable	2.00	0.5 x 0.5 x 0.1
1	✉️🗑️	Wings	Actuator	Device for moving control surfaces	Hydraulic	5.00	0.5 x 0.2 x 0.2
2	✉️🗑️	Wings	Aileron	Control surface for roll control	Electrically actuated	12.00	2.5 x 0.4 x 0.2
3	✉️🗑️	Wings	Bonding Strap	Ensures electrical continuity	Conductive material	0.10	0.5 x 0.05 x 0.01
4	✉️🗑️	Wings	Bracket	Supports various components	Aluminum alloy	0.50	0.2 x 0.1 x 0.05
5	✉️🗑️	Wings	Bus Bar	Distributes electrical power	Copper	0.20	0.5 x 0.05 x 0.01
6	✉️🗑️	Wings	Circuit Breaker	Protects against overcurrent	Resettable	0.10	0.1 x 0.05 x 0.05
7	✉️🗑️	Wings	Clevis Pin	Secures components together	Corrosion-resistant	0.10	0.1 x 0.02 x 0.02
8	✉️🗑️	Wings	Connector	Joins electrical wires	Quick-disconnect	0.10	0.05 x 0.05 x 0.05
9	✉️🗑️	Wings	De-icing Boot	Prevents ice formation	Inflatable rubber	2.00	2.0 x 0.3 x 0.01
49	✉️🗑️	Wings	Deflator	Manages cabin pressure	Titanium	8.00	2.0 x 0.5 x 0.2
50	✉️🗑️	Wings	Deflator	Manages and controls pressure	Titanium	8.00	2.0 x 0.5 x 0.2
10	✉️🗑️	Wings	Drain Mast	Allows drainage of fluids	Corrosion-resistant	0.20	0.3 x 0.05 x 0.05
11	✉️🗑️	Wings	Drain Valve	Allows drainage of fluids	Corrosion-resistant	0.20	0.1 x 0.05 x 0.05
12	✉️🗑️	Wings	Electrical Wiring	Transmits electrical power and signals	Shielded cable	0.50	10.0 x 0.01 x 0.01
13	✉️🗑️	Wings	Fairing	Aerodynamic cover for joints	Composite material	3.00	1.0 x 0.5 x 0.1
14	✉️🗑️	Wings	Flap	Control surface for lift and drag	Hydraulically actuated	20.00	3.0 x 0.5 x 0.2

- ✔️ Tracking
- ✔️ Up to date
- ✔️ Access and audit



# Time for Leap to enhance the app

The screenshot displays the Leap application builder interface for editing a form titled "A320-WingParts". The interface is divided into several sections:

- Navigation:** The top left shows the breadcrumb "A320-WingParts > A320 > Page 1". The top right contains standard window controls (back, save, close, help, user).
- App Pages:** A sidebar on the left lists "App Pages" with an "Add App Page" button.
- Forms:** Below "App Pages", it shows the "A320-WingParts" form structure, with "Page 1" selected.
- Layout:** A sidebar on the left provides layout options: "Section", "Tabs", "Data Grid", "Text", "Image", "Line", "HTML", and "Media".
- Form Design:** The central workspace shows a form layout with the following fields:
  - Aircraft:** A dropdown menu.
  - Component:** A text input field.
  - Part Name:** A text input field.
  - Description:** A text input field.
  - Additional Information:** A text input field.
  - Weight (kg):** A text input field.
  - Dimensions (m):** A text input field.
  - In stock?:** Radio buttons for "Yes" and "No".
  - Quantity in stock:** A text input field.
  - Notes:** A rich text editor with a toolbar (Paragraph, Bold, Italic, Bulleted List, Numbered List, Indent, Outdent, Image, Link) and a text area containing "Add notes here".
- Properties Panel:** On the right, the "Properties" panel for "A320-WingParts" (ID: F\_A320WingParts1) is visible. It includes:
  - Description:** A text input field.
  - Label Alignment:** A dropdown menu set to "Top".
  - Show print and delete buttons:** A checked checkbox.
  - Single submission per authenticated user:** An unchecked checkbox.
  - Upon Submission:** A dropdown menu set to "Show the success message page".
  - Pre-population service:** An unchecked checkbox for "Call a service to pre-populate".
  - Custom CSS class names:** A text input field.



The other teams **hear about the app**



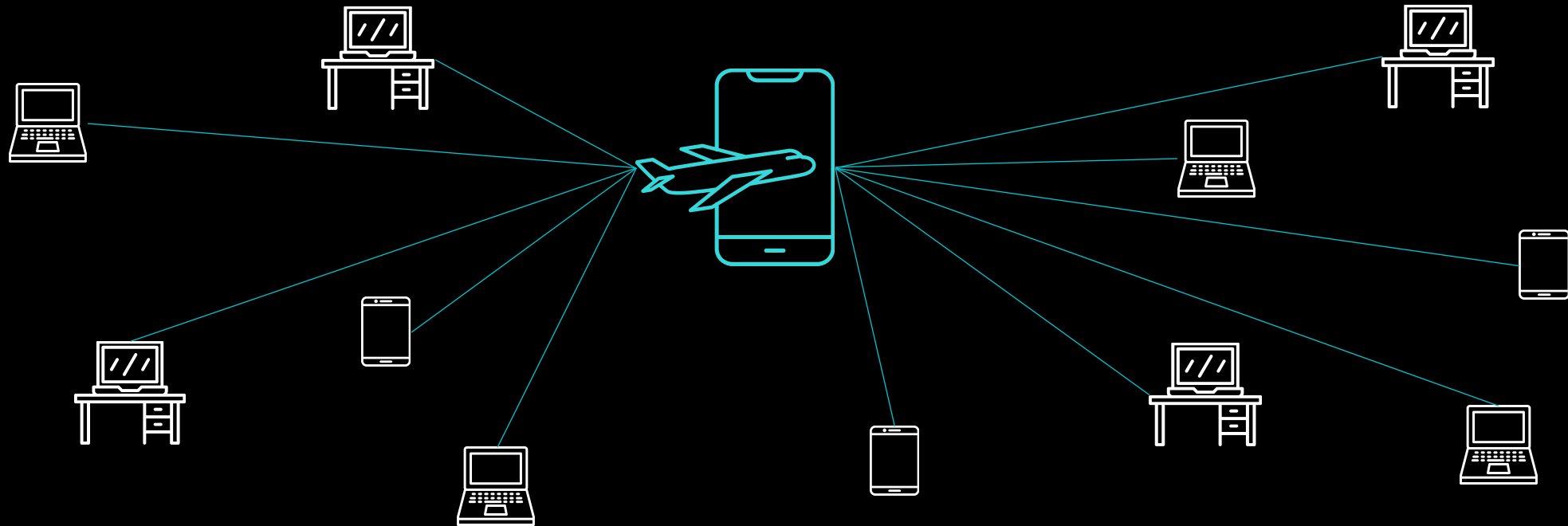
**A350**



**A380 ...and others**

**Suddenly we jump from 25 to 1000 users**

# The requirements for the app has grown



## The app now requires :

- Stronger security & access controls
- Overall governance & compliance
- Backups & versions
- Enterprise class

The business sees the app potential and wants to add more enhancements

# With HCL VoltMX the App / Data move from No Code to Low/Pro Code

The screenshot displays the HCL VoltMX user interface, divided into several functional areas:

- App Pages:** A sidebar on the left showing the application structure, including 'A320-WingParts' and 'Page 1'.
- Forms:** A central workspace showing a form for 'A320-WingParts' with fields for 'Aircraft', 'Component', 'Part Name', 'Description', 'Additional Information', 'Weight (kg)', 'In stock?', and 'Notes'.
- Layout and Display:** A sidebar on the left providing options for layout (Section, Tabs) and display (Data Grid, Text, Image, Line, HTML, Media).
- Action:** A sidebar on the left with a 'Button' action.
- Workflows:** A central workspace titled 'Workflows / API\_LoanProcess\_Async' showing a flowchart. The workflow starts with a 'Start' node, followed by an 'A320' task, a 'Catch - Doc verification' gateway, a 'Check document verification' task, an 'SAP Integration' task, an 'Exclusive Gateway' (labeled 'Reject'), and finally an 'End' node. There are also 'Throw Eligible' and 'Throw Submit Doc' nodes.
- Properties:** A sidebar on the right showing the properties of the selected workflow, including 'Name' (API\_LoanProcess\_Async), 'Trigger' (Integration Service), and 'Response Type' (Async).

# Simple workflow editing / Integrations

The screenshot displays a workflow editor interface with a dark theme. At the top, there are tabs for 'STORYBOARD' and 'DESIGN', and a 'Login' button. Below the tabs, there's a 'Web: 1366' dropdown and a 'DATA & SERVICES' section with 'Volt Foundry Backend: No app attached' and a 'Refresh' button. The main workspace shows a workflow diagram with the following components:

- Start**: A green circle.
- A320**: A rectangular task box with a gear icon.
- Catch - Doc verificatio**: A yellow circle with a triangle and a lightning bolt.
- Check document verification**: A yellow diamond with an 'X'.
- SAP Integration**: A rectangular task box with a folder icon.
- Exclusive Gateway**: A yellow diamond with an 'X'.
- Throw Eligible**: A yellow circle with a triangle.
- End**: A red circle.

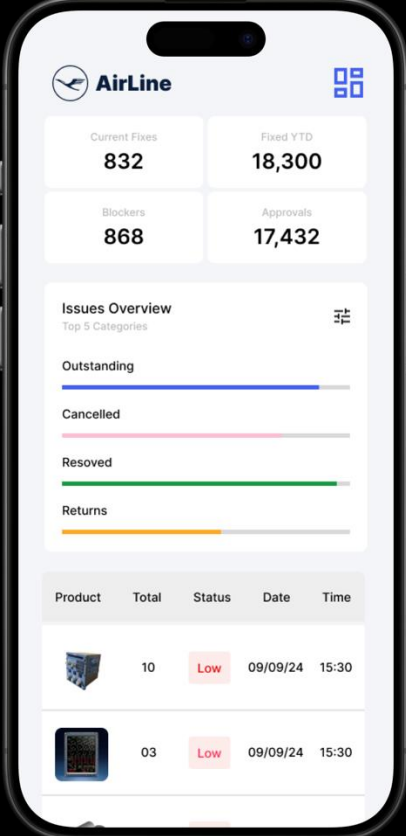
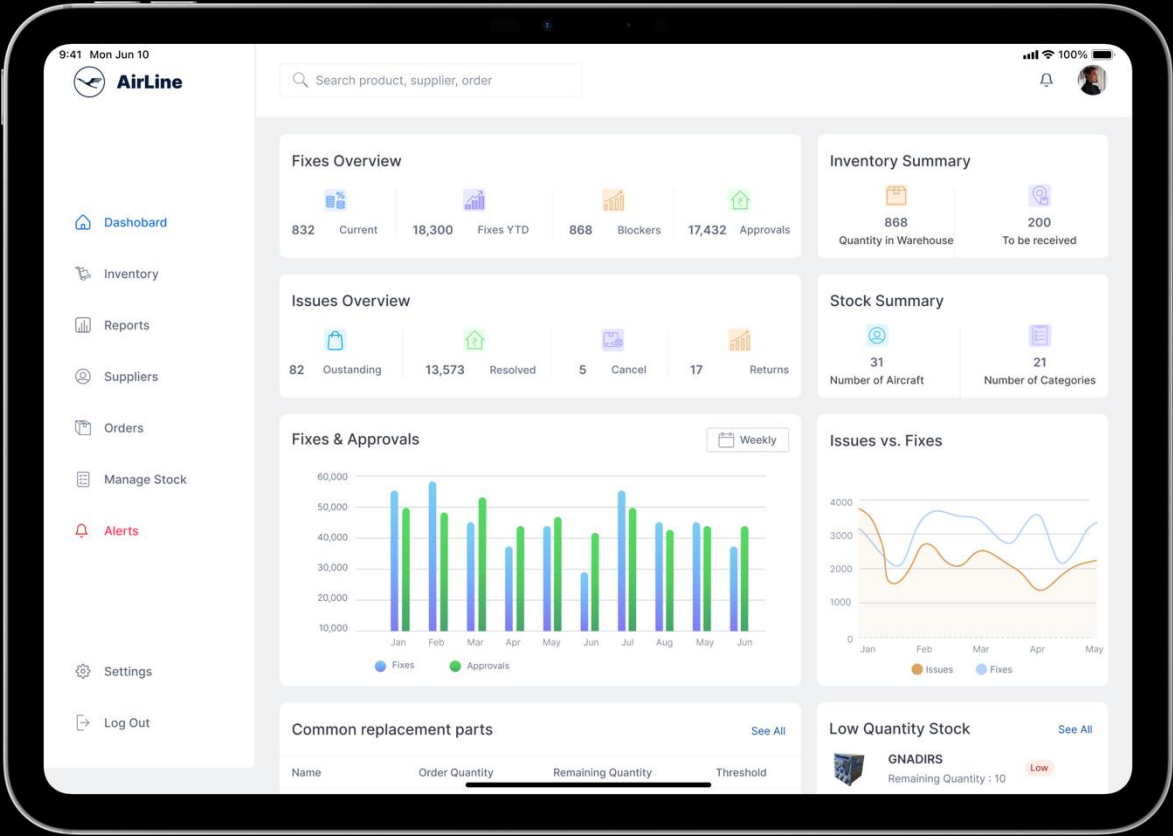
The workflow flow is: Start → A320 → Catch - Doc verificatio → Check document verification → SAP Integration → Exclusive Gateway → Throw Eligible → End. There are also feedback loops: 'document pending' from the Exclusive Gateway back to the Catch - Doc verificatio, and 'Throw Submit Doc' from the Exclusive Gateway back to the Catch - Doc verificatio.

At the bottom, there is a 'Technology Adapters' and 'Business Adapters' section. The Technology Adapters list includes: XML, SOAP, JSON, Java, JavaScript, APIProxy, Mock Data, Text. The Business Adapters list includes: SAP Gateway, MuleSoft, AWSAPIGateway, Foundry Workflow, Relational Database, MongoDB, RAML, OpenAPI (Swagger), Salesforce, IBM MQ, SAP JCO, Email, AWS S3, Cloudian, File Storage, Foundry Admin, Red Hat PAM, Zillow, wcmorig, dam, DAM30, Testyamlaa, S3 adapter, Volt MX Engagement, File System Adapter, PetStoreV4, Zillow, Box Data Adapter1, Box adapter, amadeus, 34841pet, petstorewh, Surendra, wcmnewgp, petstorewh, OpenAPI3.

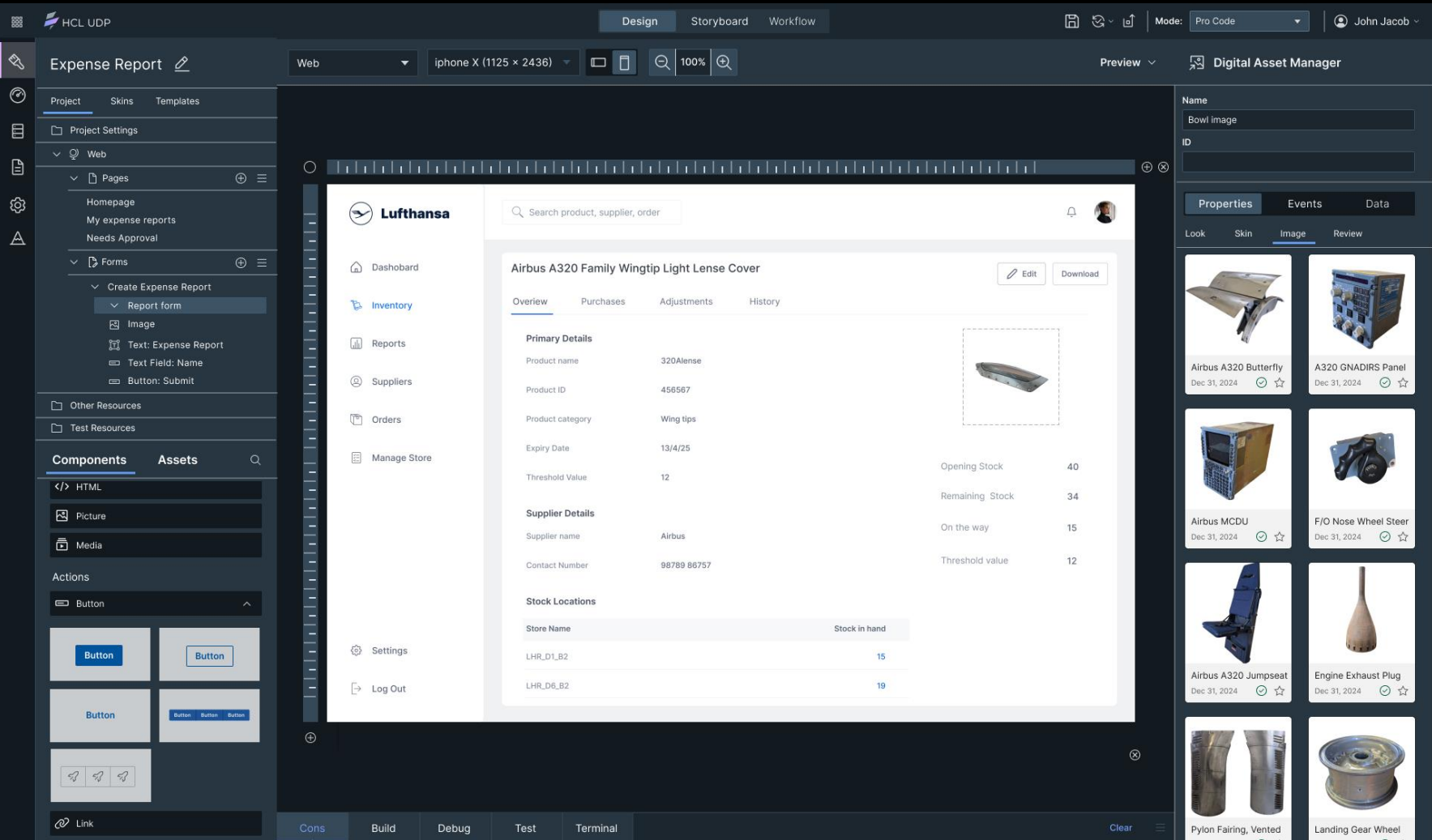
Overlaid on the bottom left is a dark grey box with four green checkmarks and the following text:

- ✓ Workflows and editing
- ✓ Integrations
- ✓ Compliance
- ✓ Governance

# Multi experience



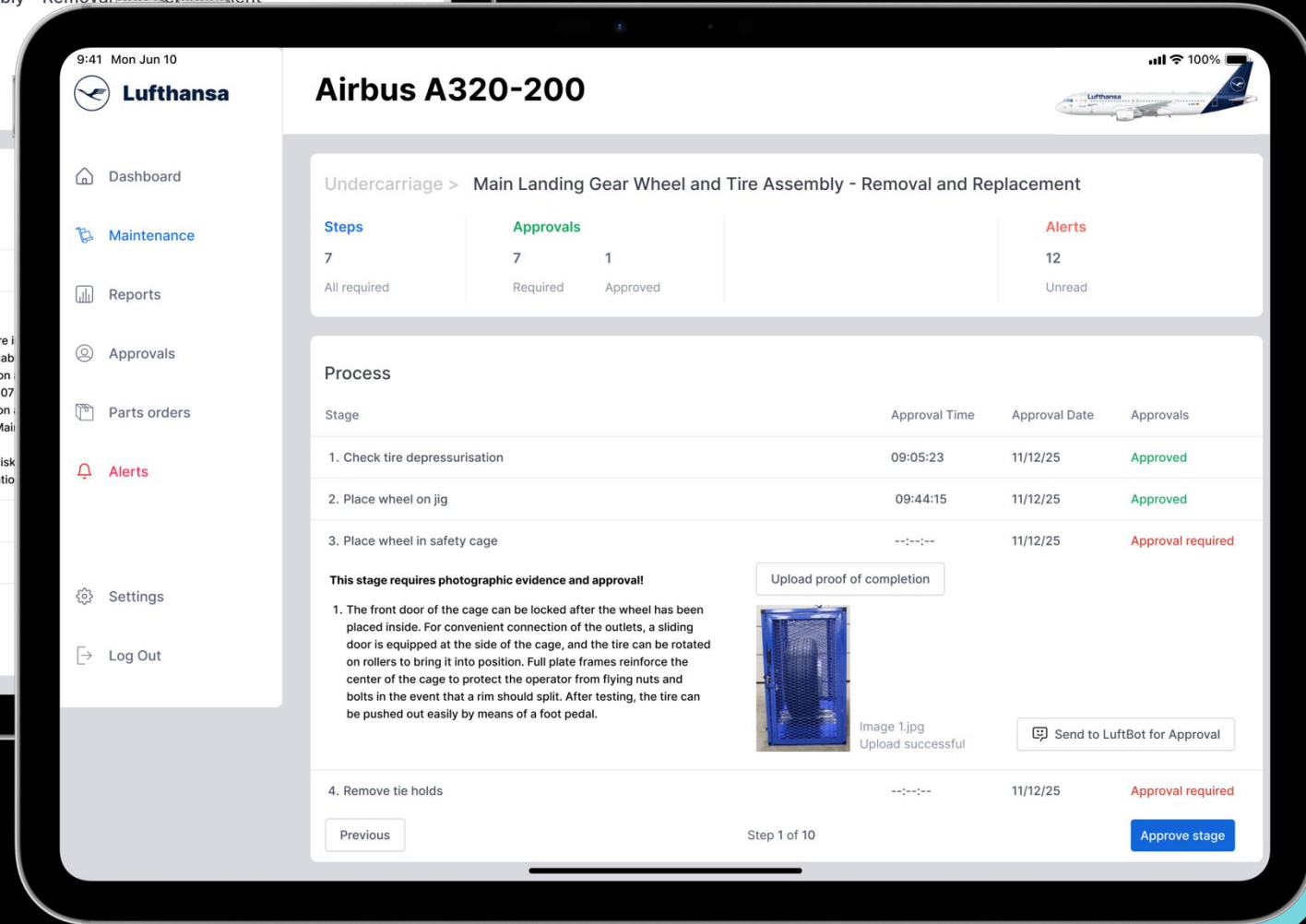
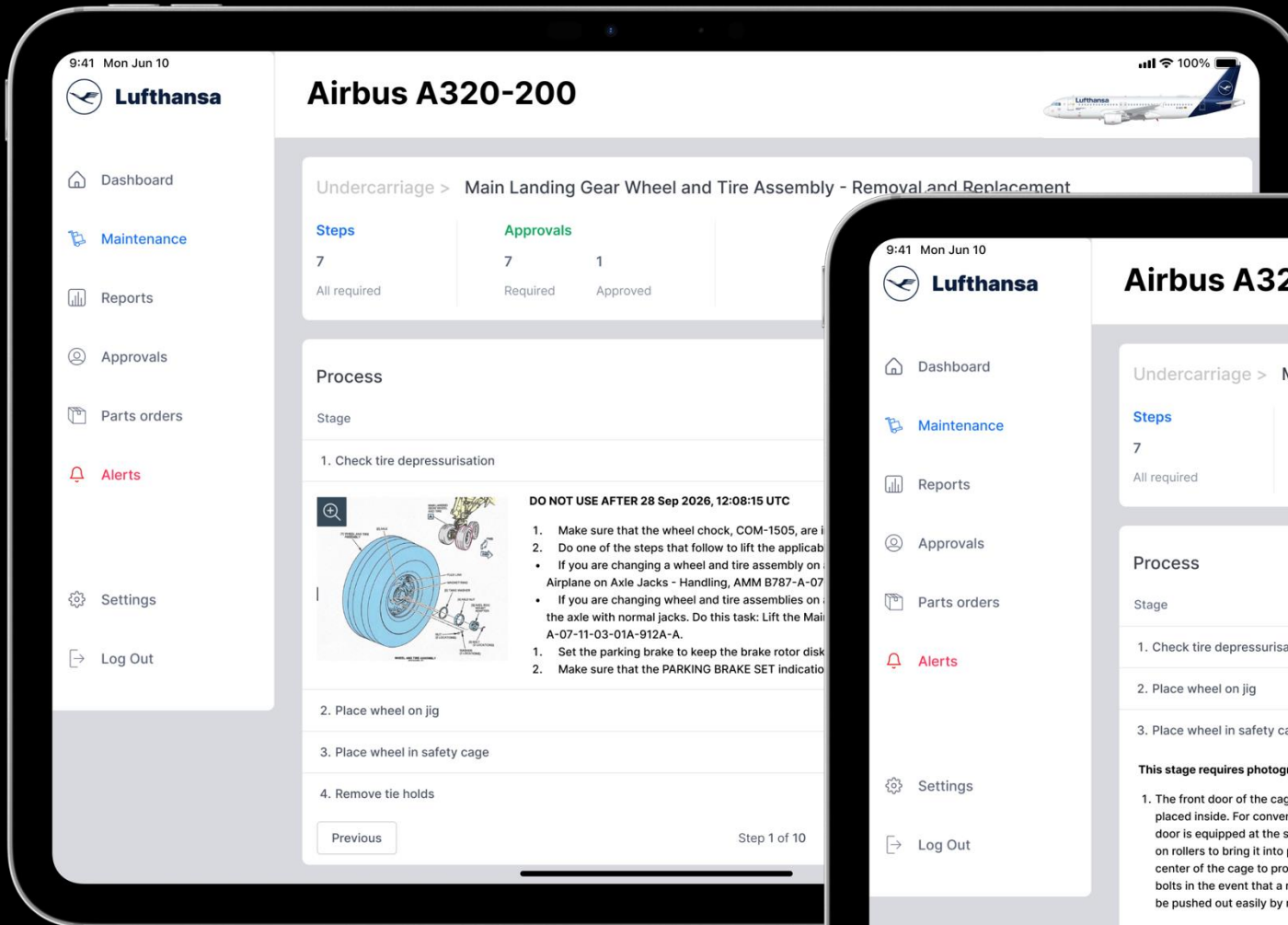
# HCL DXP Integration – Content / Personalization / Governance



Integrated DAM accelerates development with assurances for low and pro code apps.



# The App could include a tire change manual



LX + MX + DX = The Journey of an application

# The value of HCL Unified Development Platform

- Reduced cost: Unified platform
- Deliver on any channel or device, fully integrated
- Strongest security & privacy behind the login
- Superior middleware – Pre Built
- Evolve your App - Simple and Fast

# HCLSoftware