

LOCKHEED MARTIN WAREHOUSE ORDERING APP

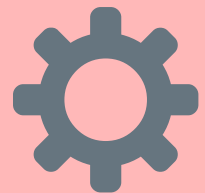
Built with SAP Build Apps

Streamlining component ordering and supplier selection through
intelligent automation

Presented by: Dharm Patel, Naman Bhalla, Saurav Krishnakumar, Trupti Vijay Ahire (Group 5)

THE CHALLENGE

Manual Ordering Creates Bottlenecks



Component Dependency

Handles thousands of critical aerospace components daily



Fragmented Systems

Warehouse staff manage orders across disconnected systems



Poor Visibility

Limited insight into delivery times and costs



Supply delays

Critical supply chain delays may need quick fixes

THE IMPACT

Disconnected Systems Slow Operations

1

Inconsistent Pricing

No single view of suppliers leads to varied costs across orders

💵 Impact: Warehouses overpay by 15-25% on average due to lack of price comparison

2

Error-Prone Approvals

Manual approval processes introduce delays and mistakes

⚠️ Impact: 30% of orders require rework due to data entry errors and miscommunication

3

Wasted Time

Procurement officers spend hours manually tracking orders

🕒 Impact: 8-12 hours per week per officer spent on manual order tracking and follow-ups

4

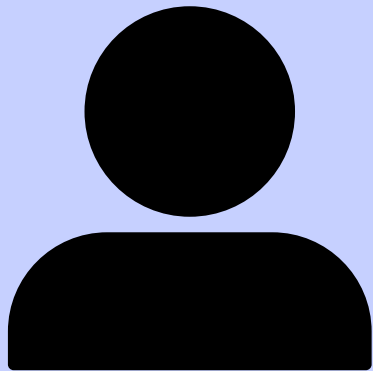
Production Delays

Late component deliveries disrupt manufacturing timelines

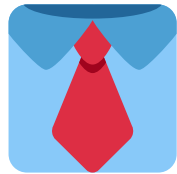
🏭 Impact: Average 2-3 day production delays when critical parts arrive late

MEET OUR PERSONAS

Who We're Building For



Marcus
(Warehouse Manager)



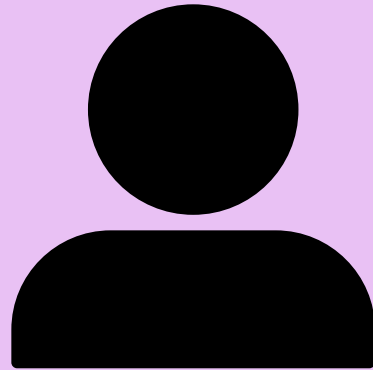
Role

Manages inventory for 200+ critical components



Pain Points

- Spends 3+ hours daily chasing supplier information
- No visibility into supplier performance history



Sarah
(Procurement Officer)



Role

Handles urgent component orders for F-35 program



Pain Points

- Can't quickly compare suppliers for best OTD
- Lacks real-time order tracking
- Misses expedite opportunities due to information delays

HOW WE IDENTIFIED THE SOLUTION

Design Thinking in Action

1 EMPATHISE

- Conducted interviews with warehouse staff and procurement teams
- Observed manual ordering workflows
- Identified pain points: visibility, speed, supplier comparison

2 DEFINE

- Core problem: Disconnected systems prevent informed, fast decisions
- Key insight: Staff need unified supplier data at their fingertips

3 IDEATE

- Brainstormed 15+ solution concepts
- Prioritised: Mobile-first, real-time data, supplier information

4 PROTOTYPE

- Built SAP Build Apps solution
- Tested with personas

USER EXPERIENCE HIGHLIGHTS



Intuitive Navigation

Home icon and card-based interface



Minimal Input

Fewer fields = fewer errors



Mobile-Optimised

Works seamlessly on any device



Branded Experience

Consistent Lockheed Martin theme

THE SOLUTION

Unified Warehouse Ordering Platform



Smart Search

Unified interface using AI camera model to search, compare, and order parts instantly



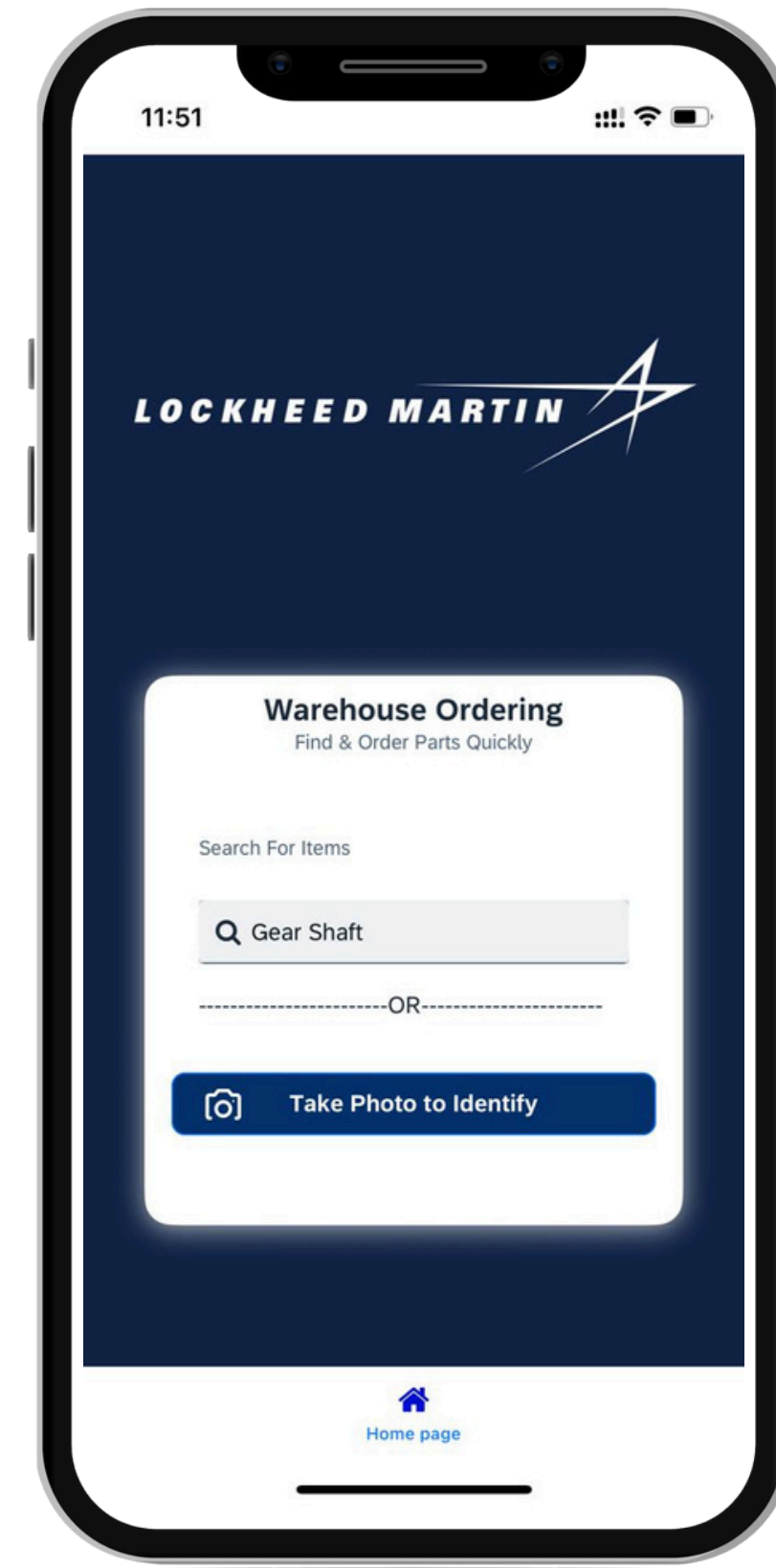
Auto-Populated Data

Supplier data automatically loaded from Lockheed's past supplier dataset



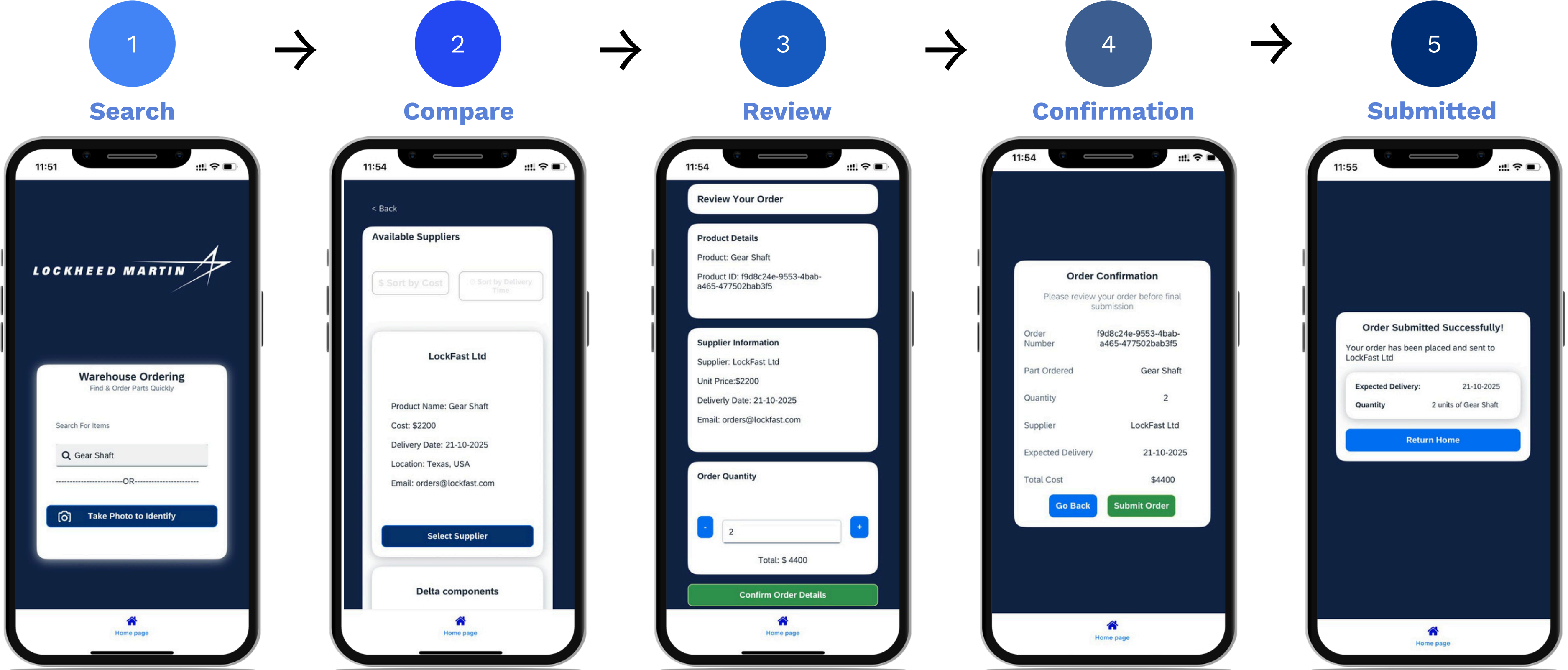
Real-Time Tracking

Instant order confirmation and status updates



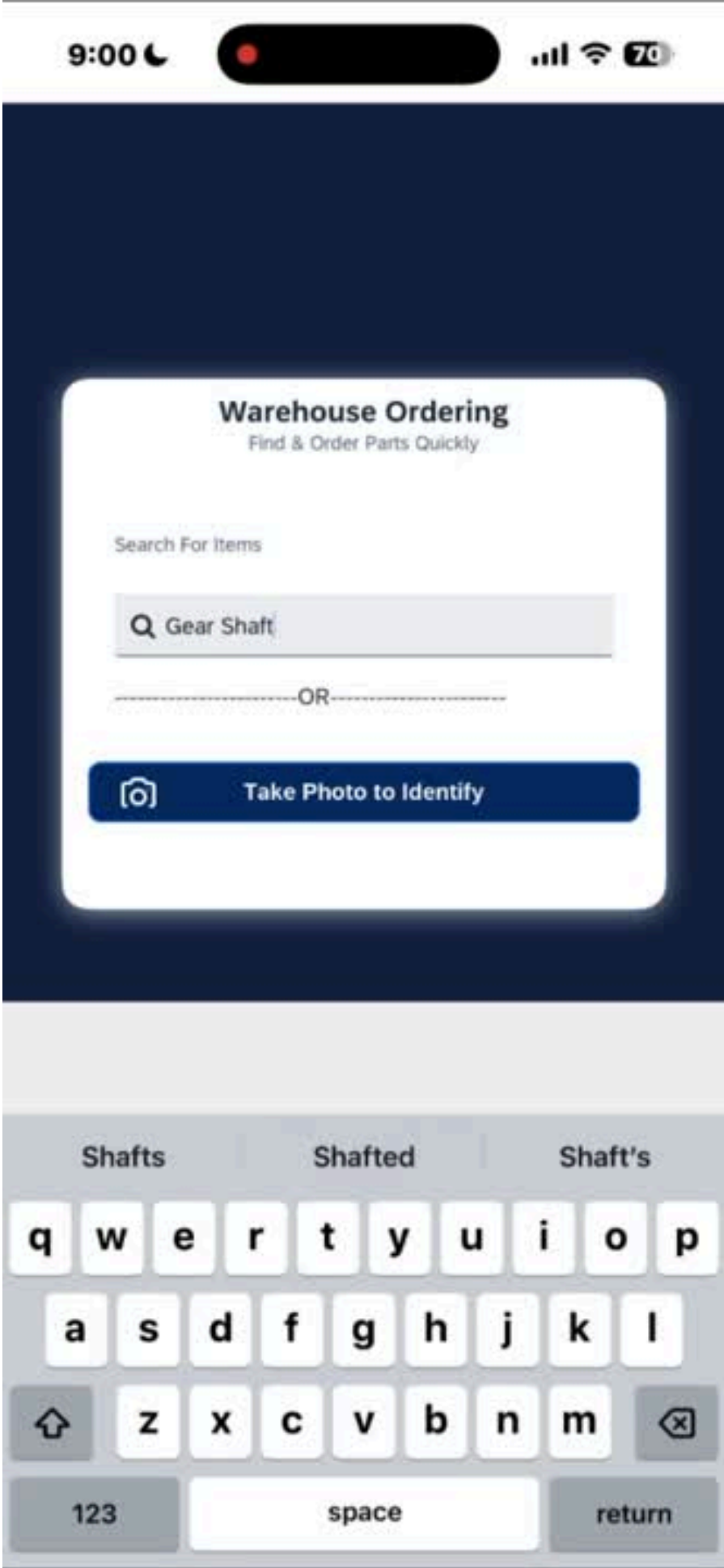
HOW IT WORKS

Simple 5-Step Process



DEMO SLIDE

Live Demo



PAIN POINTS SOLVED

Transforming the Warehouse Experience

BEFORE

- ✗ 3+ hours searching supplier info
- ✗ No visibility into the supplier
- ✗ Manual emails and approvals cause delays
- ✗ 70% OTD rate

AFTER

- ✓ 5-10 minutes to find and order parts
- ✓ Real-time supplier scorecards and OTD%
- ✓ Reduced expedite incidents
- ✓ Automated workflows and instant approvals

EXPECTED IMPACT

96% FASTER ORDERING • REAL-TIME VISIBILITY • 55% REDUCTION IN EXPEDITES • 15% OTD IMPROVEMENT

THANK YOU

QUESTIONS & DISCUSSION

Vision: “Every part ordered on time, every time.”

Waipapa Taumata Rau University of Auckland

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GROUP MEMBERS & CONTRIBUTION

All group members contributed to the conceptualization, development, and preparation of this application and presentation. The work presented is a collective effort of all team members.

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