

Home Packaging Management Solution

"Simplify your relocations with ease!"

This cloud-based application helps manage and track household items packed in unlimited boxes. It's designed for frequent movers who want to stay organised and stress-free. Accessible on all devices, it allows family members to collaborate and search for any item or box in seconds—no matter if everything is unpacked or only partially organised. With its intuitive dashboard, powerful search, and detailed reports, finding your belongings has never been easier!

Objective:

To develop a comprehensive **cloud-based household packaging management system** that ensures seamless tracking, organisation, and retrieval of household items during frequent relocations. This solution addresses the challenges of misplaced items, inefficiencies in manual tracking, and disorganisation during partial unpacking or staged storage.

Problem:

1. Frequent relocations require systematic organisation of packed belongings.
 2. Manual tracking systems were error-prone, time-consuming, and impractical when dealing with numerous items and boxes.
 3. During partial unpacking, locating specific items was a major challenge, leading to wasted effort and delays.
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Solution:

A **cloud-hosted application**, built on **Oracle APEX**, designed to:

1. Maintain a digital inventory of unlimited boxes and their contents.
 2. Provide efficient search and tracking mechanisms for quick retrieval of items.
 3. Offer an intuitive, multi-user platform for collaborative management by all family members.
 4. Ensure accessibility across all devices, including desktops, tablets, and smartphones.
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Key Features:

1. Cloud-Based Solution:

- a. Hosted on Oracle Cloud Infrastructure (OCI) for high availability and robust performance.
- b. Accessible anytime, anywhere, and on any device.

2. Unlimited Dataset Management:

- a. No practical restrictions on the number of boxes, items, or entries tracked.
- b. Scalable to accommodate growing data without performance degradation.

3. Intuitive Dashboard:

- a. A centralised view of key metrics, such as:
 - i. Total Boxes
 - ii. Room-wise distribution of items
 - iii. Types & Status of Packaging
- b. Quick navigation to search functionalities, reports, and data management tools.

4. Comprehensive Tracking:

- a. Track boxes by serial number, packaging type, and storage location.
- b. Maintain detailed records of each box's contents, including item types and quantities.

5. Powerful Search Functionality:

- a. Locate boxes or items using:
 - i. Keywords
 - ii. Room or storage location
 - iii. Custom filters for precise results.
- b. Results are displayed in a sortable, filterable tabular format.

6. Real-Time Packaging Reports:

- a. Interactive visualisations (e.g., pie charts, bar graphs) for insights into:
 - i. Room-wise item distribution.
 - ii. Packaging type breakdown.
- b. Dynamic reports for export and review.

7. Multi-User Collaboration:

- a. User accounts for all family members enable collaborative use.
- b. Each user can independently search for and track items.

8. Partial Unpacking Efficiency:

- a. Simplifies the process of finding specific items even when boxes are partially unpacked.
- b. Offers exact locations of required items, saving time and effort.

9. Data Type Management:

- a. Customise and manage categories like room locations, packaging formats, and item types.

Technologies Used:

1. **Oracle APEX:** For building a responsive, feature-rich application with minimal development effort.
 2. **Oracle Cloud Infrastructure (OCI):** Ensures secure, scalable, and high-performance hosting.
 3. **Interactive Dashboards and Charts:** Built with Oracle APEX for real-time visual insights.
 4. **Responsive Design:** Ensures compatibility across various devices and screen sizes.
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Challenges Addressed:

1. Frequent Transfers:

- Keeping track of belongings across multiple relocations.
- Eliminating the need for repetitive manual efforts in inventory management.

2. Partial Unpacking:

- Efficiently locating required items without unpacking all storage.

3. Multi-User Needs:

- Enabling collaboration and access for all family members.

4. Data Scalability:

- Handling unlimited data entries seamlessly without impacting performance.
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Impact:

1. Streamlined Organization:

- Simplifies tracking and retrieval of items across unlimited boxes and relocations.
- Provides a structured, digital inventory for hassle-free management.

2. Time Efficiency:

- Speeds up the process of finding specific items, saving hours during relocation and unpacking.

3. Enhanced Collaboration:

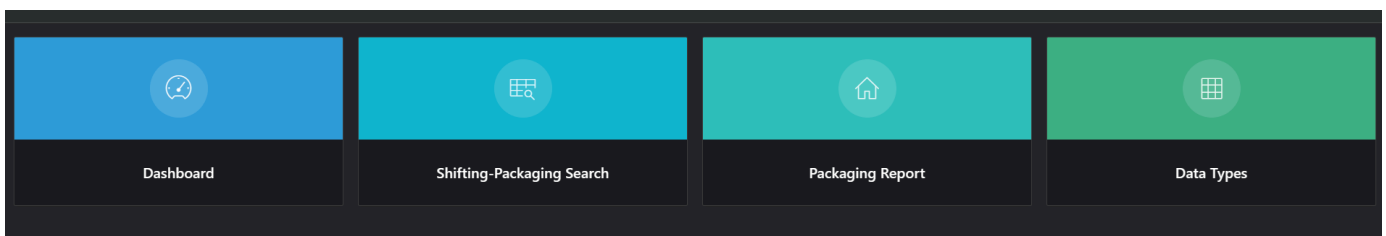
- Allows all family members to independently access and use the app, reducing dependency on a single person.

4. Reduced Stress:

- Prevents misplacement and disorganisation, ensuring peace of mind during relocations.
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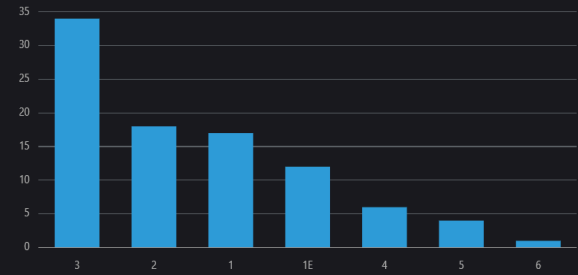
Visual Cues:

- **Dashboard Screenshot:** Showcases intuitive navigation and summary metrics.
 - **Search Results View:** Highlights the robust filtering and sorting features.
 - **Reports and Charts:** Illustrate room-wise distribution and packaging type breakdown.
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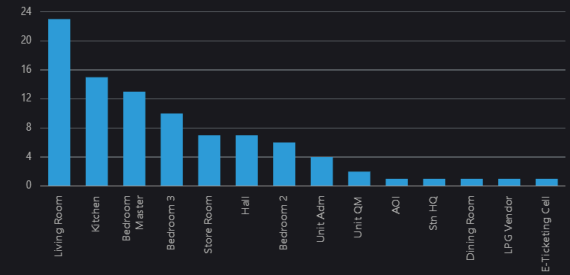


Dashboard

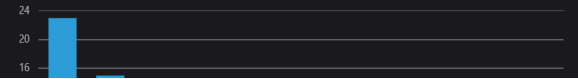
Priority



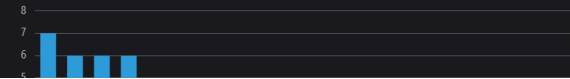
Room



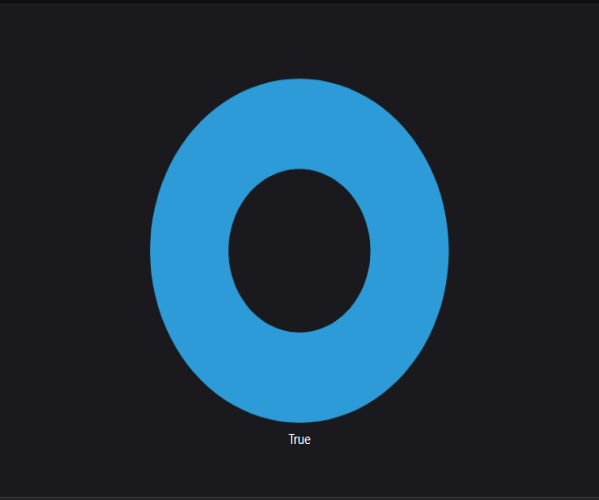
Packaging Type



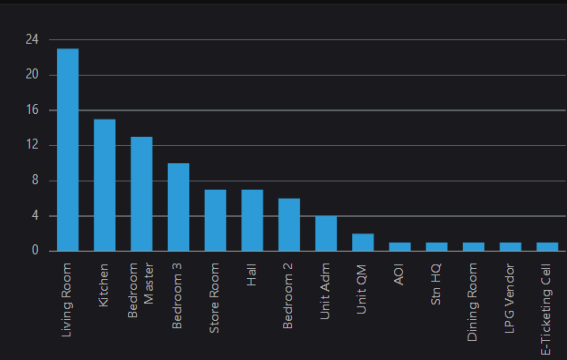
Box Serial



Packed



Room



Home \

Master Report

Search
 1. Default View
Rows 100
Create

Default View
curtain
Box Serial

Box Serial: 1 L

	Item	Room	Packaging Type	Order	Box Description	Valid Data	Remarks
	Curtains Grey (2)	Living Room	Loose	Lower Section	Cardbox Box 1 Large	True	
	Curtains White (3)	Living Room	Loose	Lower Section	Cardbox Box 1 Large	True	

Box Serial: 4 L

	Item	Room	Packaging Type	Order	Box Description	Valid Data	Remarks
	Curtains Grey (2)	Living Room	Loose	Lower Section	Cardbox Box 4 Large	True	

Box Serial: 5 L

	Item	Room	Packaging Type	Order	Box Description	Valid Data	Remarks
	Curtains Grey (7)	Living Room	Loose	Lower Section	Cardboard Box 5 Large	True	For Cushioning Around The Box