I want to create a personal use app to assist in the home moving process by applying professional grade logistics to a personal use application for Android.

## App Features:

* **QR Code Generation & Management:**
  + Create unique QR codes for each moving box (with print ability)
  + Link QR codes to detailed box content lists.
  + Scan QR code to quickly view box contents on a mobile device.
  + Update box contents and associated QR code data in real-time.
* **Item Tracking & Inventory Management:**
  + Log individual items into the app as they are packed.
  + Assign items to specific boxes.
  + Log boxes as “In” or “Out" from the moving truck.
  + Numbering system; unique number for each box
* **Visual Box Representation & Truck Loading Plan:**
  + Drag-and-drop virtual boxes onto the truck as they are logged “In”
  + Assign the boxes space on the truck
    1. Front, Middle, Back (toward cab, center, toward door)
    2. Left, Center, Right (looking at the truck from the back)
    3. Low, Mid, High (placed on the truck floor, stacked, on top)
* **Ownership Tracking & Color Coding:**
  + Assign ownership to boxes.
  + Color-code QR codes to visually indicate ownership.
  + Filter and sort boxes by owner
* **Additional Features:**
  + Categorization
  + Conversion to a spreadsheet that lists
    1. Unique Box Number
    2. Owner
    3. Room
    4. Contents
    5. Location (in truck)
    6. In (loaded) and Out (unloaded)

## Workflow and Functionality:

1. User packs boxes, gathers following data:
   1. Contents
   2. Owner
      1. Designates owner color
   3. Location (room it goes in)
   4. Assigns Unique number
2. Generates Color Coded QR Code with customizable input for data 1.1-1.4
   1. Data is dynamically added to a database (spreadsheet?)
3. User Prints Generated QR Code
   1. Code should be printed in color based on owner set scheme
4. User Attaches Printed Code to Box
5. User Scans Code
   1. When user scans code from with in the app, data populates:
      1. Owner (in designated color)
      2. Unique Number
      3. Contents
      4. Room
      5. PACKED (Finished Editing)
   2. After user “Packs” the box, options change when scanned next:
      1. “Staging”
         1. Location (where it is prior to loading)
      2. “In”
         1. Options After Loading
            1. Location on truck (Potential Drag and Drop Visual)

Front, Middle, Back (toward cab, center, toward door)

Left, Center, Right (looking at the truck from the back)

Low, Mid, High (placed on the truck floor, stacked, on top)

* + - * 1. “View Box”

Shows a visual representation of where the box is on the truck based on chosen location from 5.2.2.1

* + 1. “Out”
       1. Options After Unloading; user needs to choose:
          1. “Staging”

“Location”

* + - * 1. “Delivery” (if chosen, the following displays:)

Owner

Room

Contents

* + - * 1. DELIVERED (once box is unloaded and placed in the final location for unpacking)

Once delivered, further scanning should only display:

Unique Number

Contents

“Unpacked”

Once “Unpacked” option is chosen, QR Code is disabled and data is archived.

## Dynamic Data

* Each time data is chosen/added, it is added to the database (spreadsheet?)
* Database is printable at all times to provide an overview of current data for the user
* Database is two-fold
  + Active
  + Archieved

## Potential Additional Features

* Truck choosing guide
* Integration with U-Haul rental information
  + If not possible: Doc scanning to auto fill U-Haul rental information
  + If not possible: Manual entry of U-Haul rental information
* Packing Tips
* Supply guide/Checklist