# Workshop: Designing an Android Task App (Material 3)

**Duration:** 60 Minutes **Prerequisites:** Figma Account (Free) **Goal:** Build a production-ready "To-Do" screen using Google's official Material 3 Kit.
Check out the material site: https://m3.material.io/get-started

## Phase 1: Environment Setup (0-10 Mins)

*Goal: Get the library ready without breaking the original file.*

1. Open the Material 3 Design Kit.
2. Click **"Open in Figma"** to duplicate it to your drafts.
3. In the left sidebar, locate the **Pages** section. Click the **+** icon.
4. Name the new page `My Workspace`.
5. **Crucial Step:** On the left sidebar, click the **Assets** tab (next to Layers). This is where Google's pre-coded components live.

## Phase 2: The Scaffold (10-20 Mins)

*Goal: Define the screen boundaries and navigation.*

1. **Create Frame:** Press `F`. In the right sidebar, choose **Android Large** (360x800).
2. **Rename:** Double-click the frame name (top left of the rectangle) and rename it `TasksScreen`.
3. **Status Bar:**
   - In the **Assets** search bar, type "Status Bar".
   - Drag the component onto your frame. Move it to the very top.
4. **Top App Bar:**
   - In **Assets**, search "Top App Bar".
   - Drag the **Small** version onto the canvas below the Status Bar.
   - **Customize:** Select the App Bar. In the right sidebar (Properties), find the text input "Headline" and change it to **"My Tasks"**.
   - **Cleanup:** In the properties, toggle "Trailing Icon" to **False** (toggle off).

   **Dev Tip:** In Jetpack Compose, this setup is your `Scaffold` with a `TopAppBar`.

## Phase 3: The Task Item (20-35 Mins)

*Goal: Create a reusable row using the Design Kit.*

1. **Find Component:** In **Assets**, search for "List Item".

2. **Drag & Drop:** Drag the **Standard** list item onto your canvas (place it anywhere for now).
3. **Configure Properties** (Right Sidebar):
   - **Leading Element:** Switch to `Icon` or `Checkbox` (if available in the dropdown). If not, select the generic icon in the list item, looking at the Layers panel, and swap it for a Checkbox icon.
   - **Headline:** Change text to "Complete Lab 4".
   - **Supporting Text:** Change text to "Due: Today, 5pm".
   - **Trailing Element:** Toggle to **False/Off**.
4. **Style:**
   - Click the List Item.
   - In the **Fill** section (Right Sidebar), change the color to `Surface Container High` (use the color styles library).
   - In the **Corner Radius** (top right), type `12`.

## Phase 4: The List (35-50 Mins)

*Goal: Use Auto Layout to simulate a RecyclerView/LazyColumn.*

1. **Duplicate:** Select your customized List Item. Press `Ctrl + D` (Win) or `Cmd + D` (Mac) 4 times so you have 5 items.
2. **Group:** Select all 5 items.
3. **Auto Layout:** Press `Shift + A`. This creates a flexible container.
4. **Spacing:**
   - In the Auto Layout menu (Right Sidebar), set the gap (vertical spacing) to `8`.
   - Set **Horizontal Padding** to `16`.
   - Set **Vertical Padding** to `16`.
5. **Placement:** Drag this entire group into your `TasksScreen` frame, right below the App Bar.
6. **Responsive Sizing:**
   - Select the Auto Layout group. Set Width (top right) to **Fill Container** (or manually resize to 360 width).
   - Select the 5 items *inside* the group. Set their Width to **Fill Container**.

   **Dev Tip:** Auto Layout is exactly how `Column` works in Compose. The "8" spacing is your `Arrangement.spacedBy(8.dp)`.

## Phase 5: The FAB & Constraints (50-55 Mins)

*Goal: Add the primary action button.*

1. **Search:** Look for "FAB" in Assets. Select **FAB > Primary > Standard**.
2. **Place:** Drag it onto the `TasksScreen`.
3. **Position:** Place it near the bottom right.

4. **Constraints:**
   - Select the FAB.
   - In the **Constraints** section (Right sidebar), set Horizontal to **Right** and Vertical to **Bottom**.
   - Ensure it visually sits about 16px from the right and bottom edges.

## Phase 6: Inspection (55-60 Mins)

*Goal: Extract data for coding.*

1. Switch to **Dev Mode** (Toggle the `</>` switch at the top right of Figma, or simply click on an element and hold `Ctrl/Cmd` to see measurements).
2. Click on your Task List group. Note the padding (`16px`).
3. Click on the Background color of your App Bar. Note the hex code or token name (e.g., `Surface`).

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## Submission

Take a screenshot (or export as a image) of your Figma frame and upload it to dropbox on the link: https://www.dropbox.com/request/7JFFMjttdrZK5Bgh3pav