Android Intern Task

Objective: Create a Kotlin Multiplatform (KMM) + Compose Multiplatform (CMP) prototype that allows the user to perform different sample recording tasks (text reading, image description, and photo capture) and view all completed tasks in a local "Task History" list.

Step-by-Step Flow

Step 1. Start Screen

Purpose: Entry point for all sample tasks.

Requirements

- Heading: "Let's start with a Sample Task for practice."

- Sub-text: "Pehele hum ek sample task karte hain."

- Button: "Start Sample Task"

- On click → navigate to Noise Test Screen

Step 2. Noise Test Screen

Purpose: Check ambient noise level before recording.

Requirements

- Display decibel meter (0 – 60 dB)

- Button: "Start Test"

- Simulate or use microphone input

- If average dB < 40 → "Good to proceed"

- If ≥ 40 → "Please move to a quieter place"

- On pass → navigate to Task Selection Screen

Step 3. Task Selection Screen

Purpose: Let the user pick a task type.

Options

1. Text Reading Task

2. Image Description Task

3. Photo Capture Task

Each option opens the respective screen.

Step 4. Text Reading Task

Purpose: User reads a passage aloud and records audio.

API: `https://dummyjson.com/products`

UI

- Show text (`description`)

- Instruction: "Read the passage aloud in your native language."

- Mic Button (Press and Hold):

  - Start recording when the mic icon is pressed down.

  - Stop recording automatically when the user lifts their finger or releases the button.

- - Reject recording if duration < 10 seconds or > 20 seconds.

  - Show an inline error message if invalid length:

    - "Recording too short (min 10 s)."

    - "Recording too long (max 20 s)."

- **After recording:**

  - Playback bar

  - Checkboxes:

    - No background noise

    - No mistakes while reading

    - Beech me koi galti nahi hai

- **Buttons:**

  - "Record again"

  - "Submit" (only enabled when all checkboxes checked)

On Submit: Save locally

```
{
  "task_type": "text_reading",
  "text": "Mega long lasting fragrance...",
  "audio_path": "/local/path/audio.mp3",
  "duration_sec": 15,
  "timestamp": "2025-11-12T10:00:00"
}
```

Then navigate back to Task Selection.

Step 5. Image Description Task

Purpose: User describes an image via audio recording.

UI

- Display an image (from API or local sample)

- Instruction: "Describe what you see in your native language."

- Mic Button (Press and Hold):

    - Starts recording on press

    - Stops automatically on release

    - Validate duration (10 – 20 seconds)

- After recording:

    - Show playback

    - Button: "Submit"

On Submit:

```
{
  "task_type": "image_description",
  "image_url":
"https://cdn.dummyjson.com/product-images/14/2.jpg",
  "audio_path": "/local/path/desc_audio.mp3",
  "duration_sec": 12,
  "timestamp": "2025-11-12T10:10:00"
}
```

Step 6. Photo Capture Task

Purpose: Capture an image and describe it.

UI

- Ask for camera permission

- Button: "Capture Image" → open camera → preview photo

- Text field: "Describe the photo in your language."

- Optional Mic Button (Press and Hold):

  - Start on press

  - Stop on release

  - Validate duration 10–20 s

- Buttons: "Retake Photo", "Submit"

On Submit:

```
{
  "task_type": "photo_capture",
  "image_path": "/local/path/photo.jpg",
  "audio_path": "/local/path/photo_audio.mp3",
  "duration_sec": 18,
  "timestamp": "2025-11-12T10:15:00"
}
```

Step 7. Task History Screen

Purpose: Display all locally saved tasks (RecyclerView-style list).

UI

- **Header:**

  - Left – Total Tasks

- ○ Right – Total Recording Duration

- ● List Items:

  - ○ Task ID

  - ○ Task Type

  - ○ Duration + Timestamp

  - ○ Preview (text snippet or image thumbnail)

Submission Requirement:

Upload your final project to GitHub (make the repository public) and share the generated APK build.

Use the following Google Drive folder for all reference or UI images:

https://drive.google.com/drive/folders/1MYpK_ccX70QQAHDHeD_IEGDnX0pUGUAn