Revive: Promoting Sustainablity Through Furniture Refurbishing
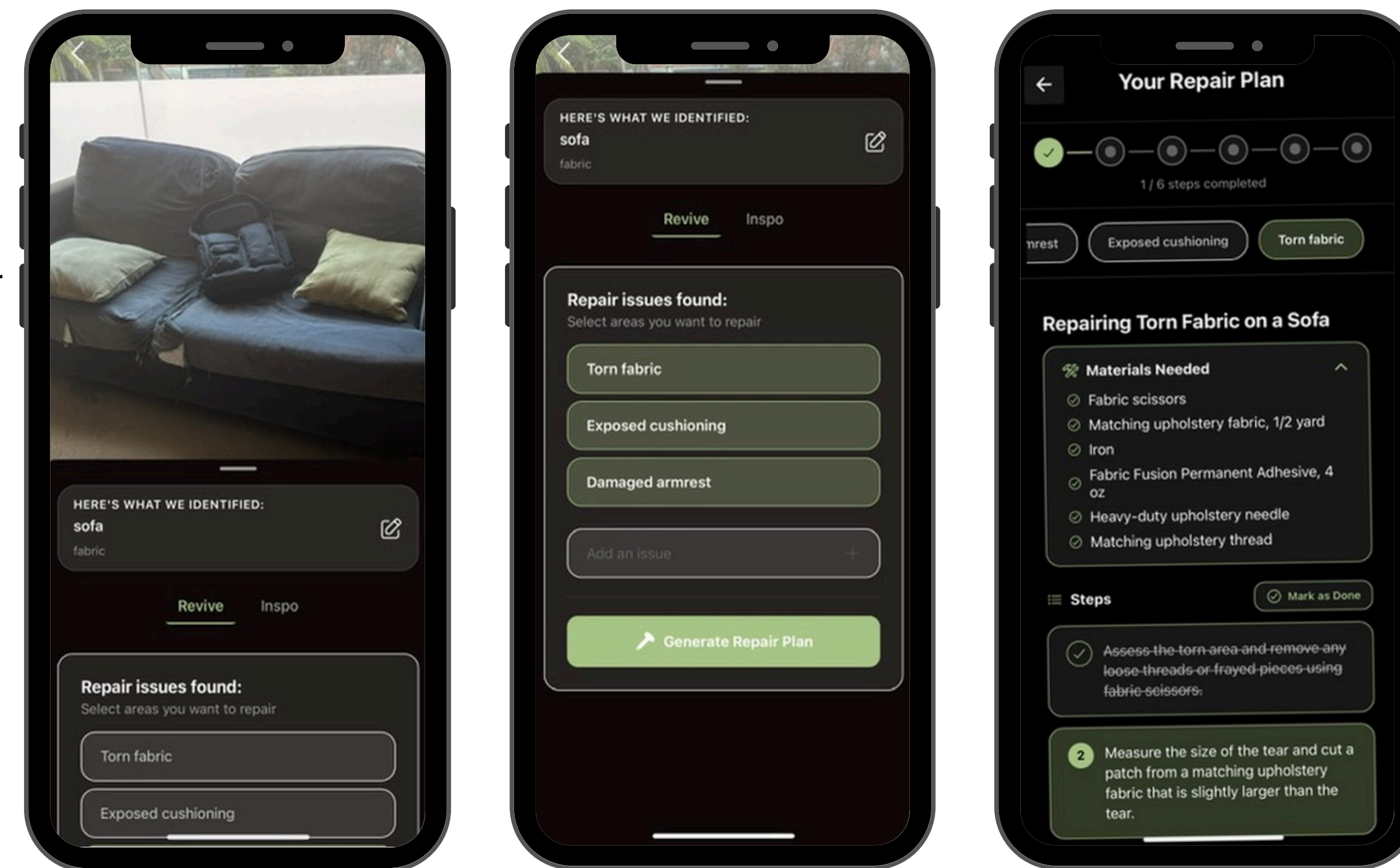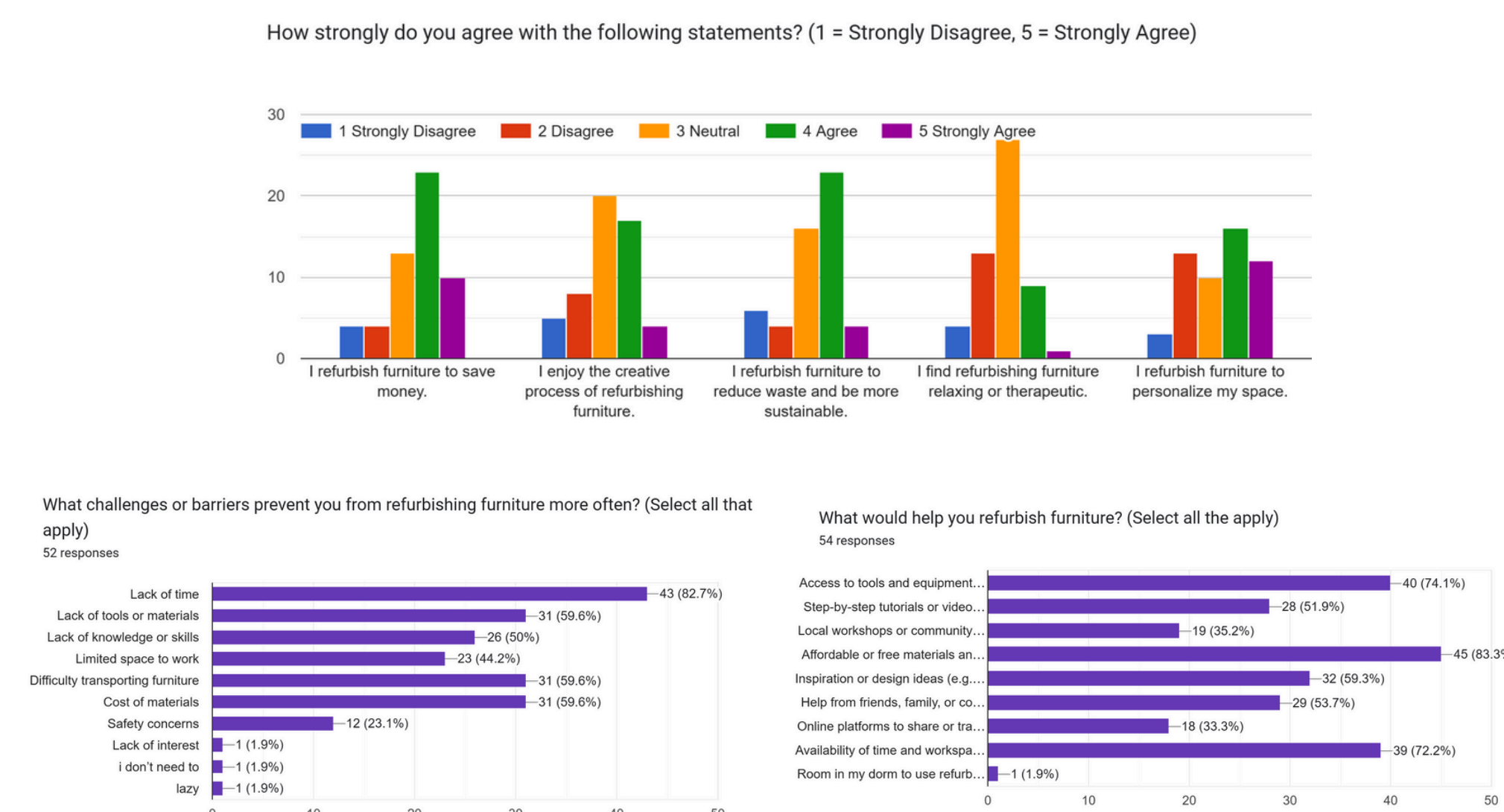
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PROBLEM

People are interested in refurbishing furniture but do not know where to start. Current platforms (like Pinterest, YouTube tutorials) offer aesthetic inspiration but fail to provide actionable, step-by-step guidance or local support networks for refurbishing furniture.
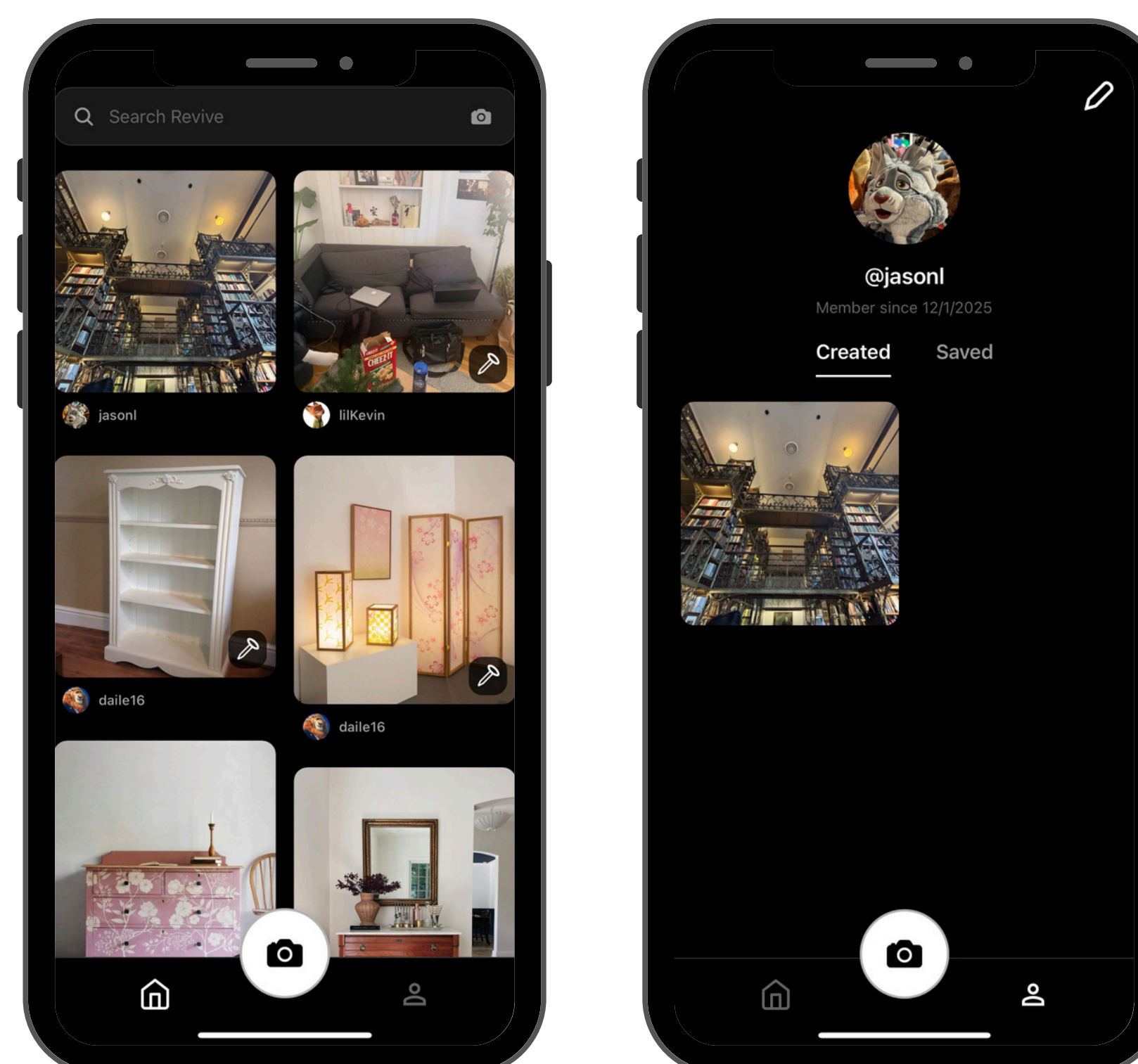
USER RESEARCH METHODS

We conducted **18 semi-structured user interviews**, **2 expert interviews**, and collected **50+ survey responses**.

KEY FINDINGS

- Users need an app that identifies issues, assesses feasibility, and recommends next steps.
- Repair instructions must be beginner-friendly.
- The app should include inspirational content made by other users.
- The app should help evaluate difficulty level, estimated time, and materials needed.

OUR SOLUTION

We aim to create a mobile app that helps users identify furniture issues and complete refurbishing projects with confidence. Users take a photo of a damaged furniture item or upload one from their gallery.

Revive provides two types of analysis:

- Issue detection: identifies visible damage, wear, and repairable areas.
- Repair guidance: step-by-step instructions, materials needed, and optional user-added issues.

IMPLEMENTATION

- Scan or upload an image to begin analysis.
- View automatically detected issues and add custom issues.
- Generate a repair plan with clear steps and recommended materials.
- Browse inspo images for ideas and refurbishing styles.

EVALUATION RESULTS

- The core repair flow is intuitive and easy to follow!
- Users felt the app increased their confidence when refurbishing furniture.
- Users appreciated how Revive identify repair issues and allowed them to add their own.

IMPROVEMENTS MADE

- Improve visual clarity across the camera and feed screens.
- Incorporate a "Save" option to help users quickly return to Tutorial instructions.
- Improved the feed design to ensure users can clearly identify it as a feed.

FUTURE DIRECTIONS

- Increase specificity in repair plans (i.e. exact materials, tool sizes).
- Incorporate visual/audio aids like videos.

ISSUE DETECTION + REPAIR PLAN

COMMUNITY FEED + PROFILE PAGE