"Master Meme" Requirements

This requirements document is used to explain the main functionality behind Master Meme.

The exact looks and colors of a specific UI element can be seen on the mockups. The app has a single theme but no light or dark theme.

Note that this serves to give you an overall impression of what the app should be able to do. Feel free to decide how you implement specific things (e.g., how you display a specific loading progress or how you specify error messages).

You can find the mockups for Master Meme here:
https://www.figma.com/design/r4LWvGAiNCHUNeN1umOr1G/Master-Meme?node-id=96-1090&t=nEgf7rfcnlYwEHHF-1

App Variants

The mockups include two app variants: MVP and an extended version. The extended version-specific requirements are written in orange. Depending on your available time, you can build either variant. Green requirements are just optional add-ons for you. They won't be considered in the challenge submissions, but if you have time feel free to implement them.

Icons

All icons for the app can be Material design icons or taken from the mockups as SVG (in case an equivalent Material icon doesn't exist)
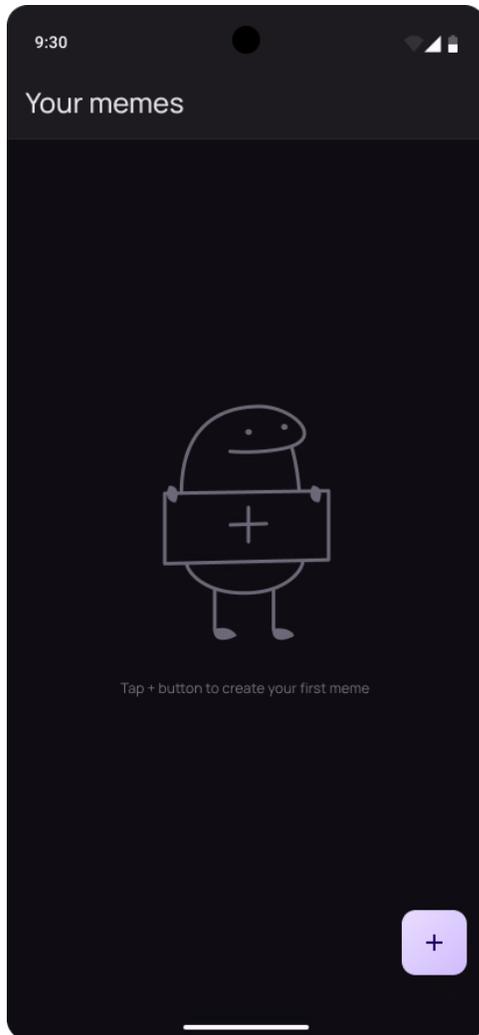
Splash Screen

- Fix icon in the center of the screen

Created Memes Screen (Home)

- Top bar with title "Your memes"
  - A dropdown menu with two options to sort the grid of memes
    - Default value: "Favourites first" to place the favourited memes at the top of the grid
      - Apply a secondary sort criteria based on the created date, with the latest favourited meme in first place.
    - Second option: "Newest first" to sort memes by their created date
- FAB with "+" located at the bottom right of the screen
  - Tap to trigger show bottom sheet populated with meme templates
- Main content is a two-column grid of the user's created memes in a grid format
  - Each item in grid has a favorite icon to indicate if the meme is a favorite or not. Tapping the icon toggles its favorite state
  - Long-tap any image to enter selection mode
    - The image long-tapped is automatically selected once this mode is entered
  - Main content Selection Mode
    - Hide the favorite icons
    - Show icons at the top-right of each grid item to indicate if it is selected or not
    - Update top bar content with
      - "X" - On tap, exit the Selection Mode
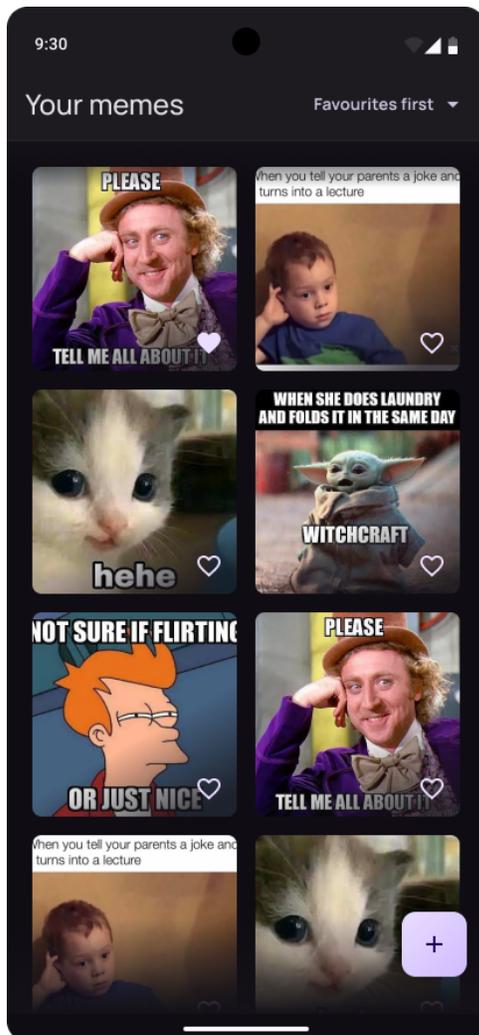   - Counter indicating how many memes are selected

- Share icon. On tap, open the system share prompt for all the selected memes

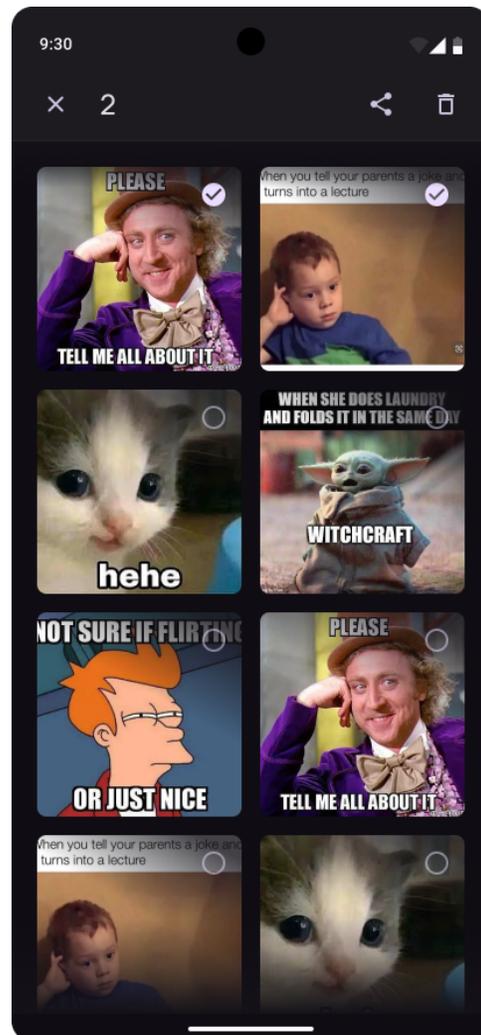- Trash icon. On tap, show confirmation dialog. Upon confirmation, delete selected memes.

Home - Empty State

Home - MVP

Home - Extended   Home - Selection Mode

- Meme Template Bottom Sheet

    ○ Shown when "+" FAB is tapped

    ○ It opens at about half-height of the screen and is extendable to full-screen height

    ○ Contains a list of meme templates (resources provided) in a two-column grid format

    ○ Tap on a meme to trigger navigation to Create Meme Screen

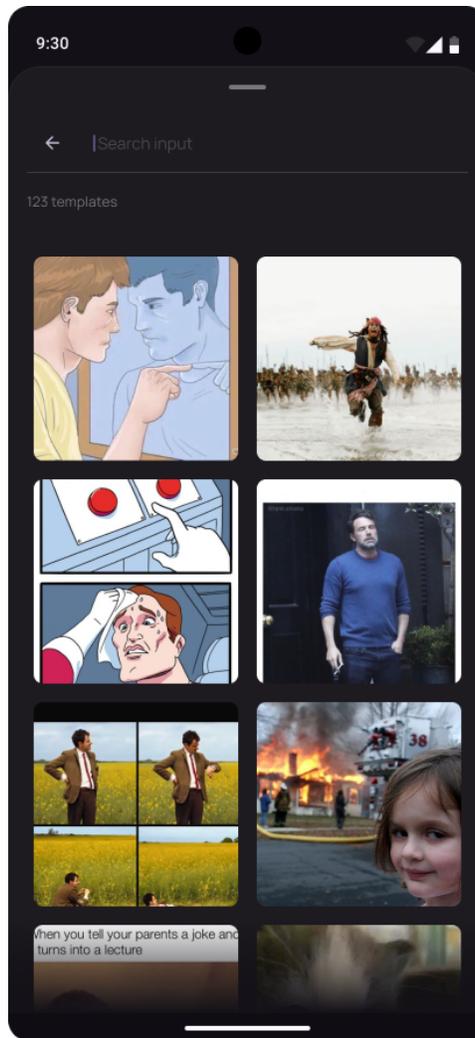   ○ Search Icon top-right of the bottomsheet

- On tap, show field to input search text

- Filter the available memes based on the search text. You can either filter based on a clear name you choose for each meme or by filtering based on the file names.

- Display the amount of templates currently shown

- Empty search text should show all memes

- "X" button to clear search text

- "←" Back arrow to exit search prompt

Select Template Sheet - MVP

Select Template Sheet - Extended

Create Template Sheet - Search State
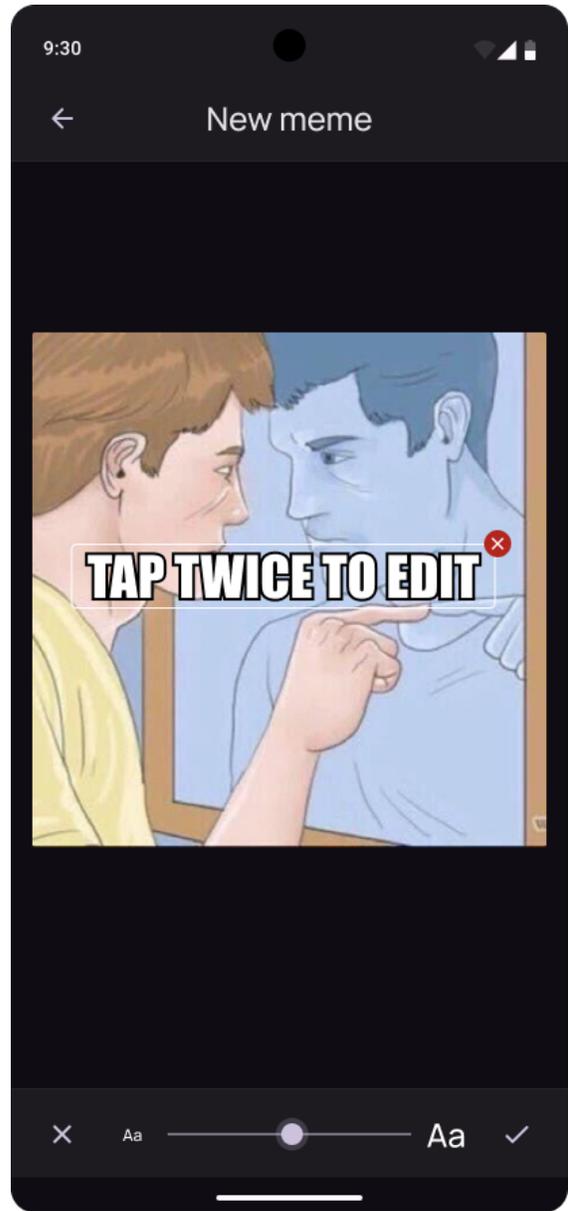
Create Meme Screen

- Top bar with title and back navigation arrow
  - Show confirmation dialog when back arrow is tapped
- The chosen meme is the center image of the screen
- Bottom bar
  - No text box selected
    - Button to add text to the image
      - On tap add a draggable text box on top of the meme

- Button to save the meme
  - On tap, Show a bottom sheet with two options, each with an icon, title and subtitle
  - Option 1 saves the image with the text to the device so that the newly created meme is available in the user's photo gallery
  - Option 2 launches the device's sharing prompt to open another app with the newly created meme
- Undo and redo arrows
  - Only enable the undo arrow if there is an action to undo
  - Only enable the redo arrow if there is an action to redo
  - Keep a maximum of 5 past actions to undo
    - What is considered an action is left up to your own skill
- Text box selected
  - Font Size Slider UI Controls
    - Slider UI component whose value changes the font size of the text in the selected text box
    - Only save the desired font size when then checkmark icon is tapped
    - Reset the font size and deselect the text box when the "x" icon is tapped
  - Replace the Font Slider Ui controls with the following
    - Change font icon
    - Change font size icon
    - Change font color icon
    - "X" - on tap, unselect the text box and discard all modifications made
    - Check icon - on tap, save all changes made to the text box

- Tapping each icon should show a banner above the bottom bar, each custom based on the selection made

    - Change font - shows a scrollable list of available fonts, on tap, change the text box's font to the selected font

    - Change font size - Slider that changes the size of the font of the selected text box

    - Change color - scrollable list of a range of colors, on tap, change the font color of the selected text box

- Text boxes

    - Tapping the box selects it and surrounds it with a white border and a red "X" at the top-right corner

        - On tapping the "X" the box is removed from the screen

    - This box can not be moved outside the boundaries of the image

    - On tapping the box, either

        - Show a dialog where text can be added and on tapping "OK", the text will be applied to the tapped box

        - Or show a keyboard and edit the text inside the box directly. Tapping outside the box will dismiss the keyboard while preserving the text.

Create Meme - MVP

Create Meme - MVP Text Selection

Create Meme - Extended

Create Meme - Text Selection