

Apex Launcher Frontend

1. Resource Files

1.1 strings.xml

Contains all text strings for localization:

- Screen titles (home, app drawer, settings)
- Button labels
- Menu item text
- Setting option names
- Search hints
- Dialog messages
- Error messages
- Empty state messages

1.2 colors.xml

Define color palette:

- Primary colors (background, surface)
- Text colors (primary, secondary, hint)
- Accent colors
- Icon tint colors
- Overlay colors (dim, highlight)
- Search bar colors
- Folder colors

1.3 dimens.xml

Dimension values:

- Icon sizes (app, folder, widget)
- Padding and margins (grid, items, screens)
- Text sizes
- Corner radius values
- Elevation values

- Search bar dimensions
- Dock height
- Grid spacing

1.4 styles.xml

Theme and component styles:

- Base application theme
- Text appearances
- Button styles
- Card styles
- Dialog themes
- Search bar styles

2. Layout Files

2.1 activity_main.xml

Root container for launcher:

- ViewPager/container for multiple home screen pages
- Dock container (fixed at bottom)
- App drawer container (slides up from bottom)
- Wallpaper/background container

2.2 home_screen.xml

Single home screen page:

- Grid container for app icons
- Empty state view (when no apps)
- Page indicator dots
- Handles both classic and drawer modes

2.3 dock.xml

Dock components:

- Container for pinned apps (fixed count slots)
- App drawer trigger button (center or edge)

- Optional Google search bar
- Background with elevation

2.4 app_drawer.xml

App drawer interface:

- Search bar (non-removable, top position)
- Recycler/grid for all apps
- Alphabetical section headers
- Fast scroll indicator
- Close/handle indicator

2.5 app_icon.xml

Individual app icon component:

- Icon ImageView
- Label TextView
- Badge indicator (notifications count)
- Selection/highlight state

2.6 folder_icon.xml

Folder icon on home screen:

- Container showing preview of contained apps (first 4-9 icons)
- Folder name label
- Badge count (total apps inside)

2.7 folder_expanded.xml

Open folder view:

- Dialog/popup container
- Grid for apps inside folder
- Folder name (editable)
- Close button
- Background dim overlay

2.8 widget_container.xml

Widget placement:

- Container with resize handles
- Widget content frame
- Remove/configure buttons (on long press)

2.9 context_menu_app.xml

Long press menu for apps:

- App info option
- Uninstall option
- Remove from home option
- Add to folder option
- Widget options (if available)
- App shortcuts list (dynamic from app)

2.10 search_bar_dock.xml

Optional dock search bar:

- Search input field
- Google icon/logo
- Microphone icon (voice search)
- Background with rounded corners

2.11 search_bar_drawer.xml

App drawer search bar:

- Search input field
- Clear button
- App results filter indicator

2.12 settings_activity.xml

Settings screen container:

- Toolbar with title
- Content frame for preference fragments

2.13 settings_home_screen.xml

Home screen settings:

- Mode selector (classic/drawer mode toggle)
- Grid size options (rows and columns)
- Icon size slider
- Label visibility toggle
- Page indicator style

2.14 settings_dock.xml

Dock settings:

- Enable/disable dock
- App slots count
- Show search bar toggle
- Search provider selection (Google only currently)
- Dock background style

2.15 settings_app_drawer.xml

App drawer settings:

- Sort order (alphabetical, most used, custom)
- Grid size options
- Show section headers toggle
- Animation style

2.16 settings_folders.xml

Folder settings:

- Folder grid size
- Auto-naming toggle
- Background style
- Preview icon count

2.17 settings_widgets.xml

Widget settings:

- Show widget picker option
- Grid snapping toggle
- Widget padding options

2.18 settings_appearance.xml

Visual settings:

- Wallpaper selector trigger
- Icon pack selector
- Theme selector (light/dark/auto)
- Transparency levels
- Font options

2.19 settings_gestures.xml

Gesture settings:

- Swipe up action (app drawer/search/nothing)
- Swipe down action (notifications/search/nothing)
- Double tap action
- Pinch gesture action
- Home button behavior

2.20 dialog_rename_folder.xml

Folder rename dialog:

- Text input field
- Cancel button
- Confirm button

2.21 dialog_grid_size.xml

Grid customization dialog:

- Row count picker
- Column count picker
- Preview grid
- Apply button

2.22 empty_state.xml

Empty state views:

- Icon placeholder

- Message text
- Action button (add apps/change mode)

3. Menu Files

3.1 menu_home_screen.xml

Home screen options menu:

- Add apps option
- Add widgets option
- Settings option
- Wallpaper option

3.2 menu_app_drawer.xml

App drawer options:

- Sort option
- Hide apps option
- Settings option

4. Drawable Resources

4.1 Required Drawables

- Default app icon placeholder
- Folder background shapes
- Search bar background
- Dock background
- Page indicator (active/inactive)
- Widget resize handles
- Context menu background
- Selection highlight
- Badge background

5. State Management Requirements

5.1 Home Screen States

- Classic mode: all apps displayed automatically
- Drawer mode: only user-pinned apps displayed
- Empty state per mode
- Multi-page support with indicators

5.2 Dock States

- With search bar
- Without search bar
- Different app slot counts (3-7 typical)

5.3 Search Bar States

- Dock search: removable via settings
- Drawer search: permanent
- Both connect to Google search

5.4 App Icon States

- Normal
- Long pressed (context menu visible)
- Dragging
- In folder
- With badge

5.5 Folder States

- Closed (home screen)
- Open (expanded view)
- Empty
- Full

5.6 Widget States

- Placed
- Resizing
- Configuration mode

6. Interaction Patterns

6.1 Navigation

- Horizontal swipe: between home pages
- Vertical swipe up: open app drawer
- Vertical swipe down: notification panel (system) or custom action
- Back button: close drawer/folder, return home

6.2 App Management

- Tap: launch app
- Long press: show context menu
- Drag: move app, create folder (drag onto another app)
- Drag to dock: pin to dock
- Drag to remove area: unpin from home (drawer mode only)

6.3 Folder Management

- Tap folder: expand
- Tap outside/back: close folder
- Long press folder: rename/delete
- Drag app into folder: add
- Drag app out of folder: remove

6.4 Widget Management

- Long press home screen: enter edit mode, show widget picker
- Long press widget: show resize handles, show remove option
- Drag widget: reposition
- Resize handles: adjust size