

Mobile Information Architecture

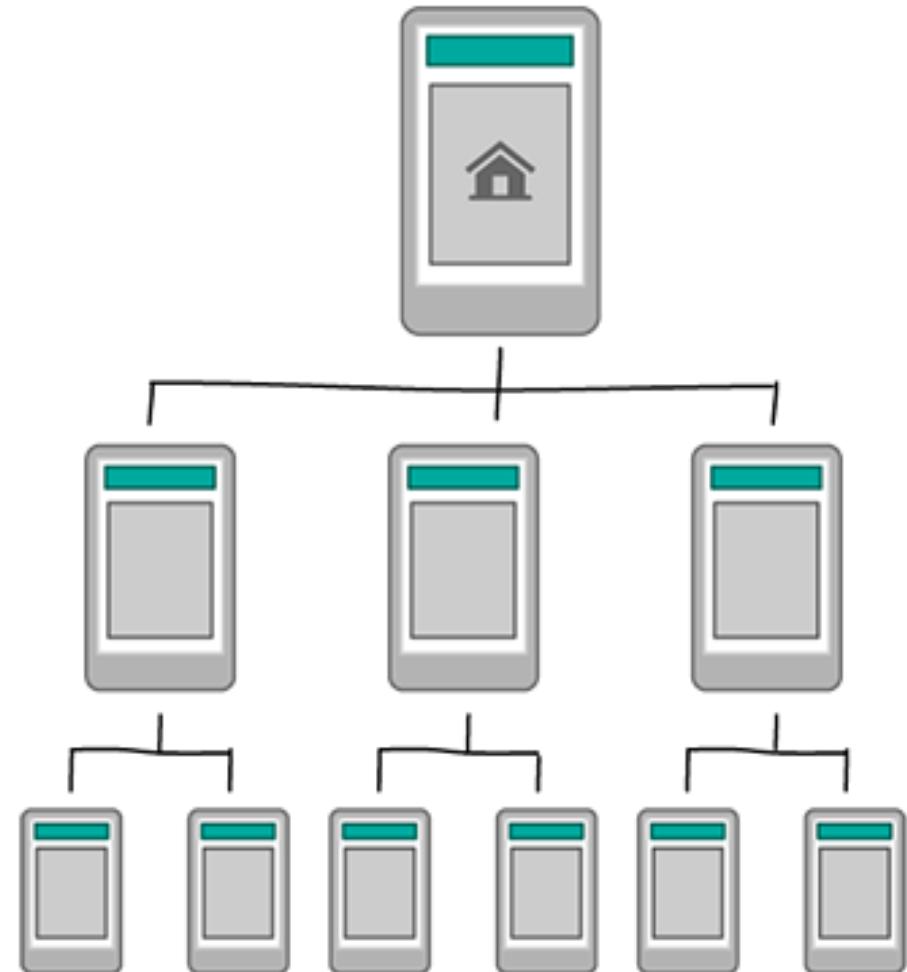
Prof. Devansh Parikh

Mobile Information Architecture

- Mobile devices have their own Information Architecture patterns, including
 1. Hierarchy
 2. Hub & Spoke
 3. Nested Doll
 4. Tabbed View
 5. Bento Box/Dashboard
 6. Filtered View
- each suited for specific use cases and offering unique advantages and challenges in organizing and navigating content efficiently on small screens.

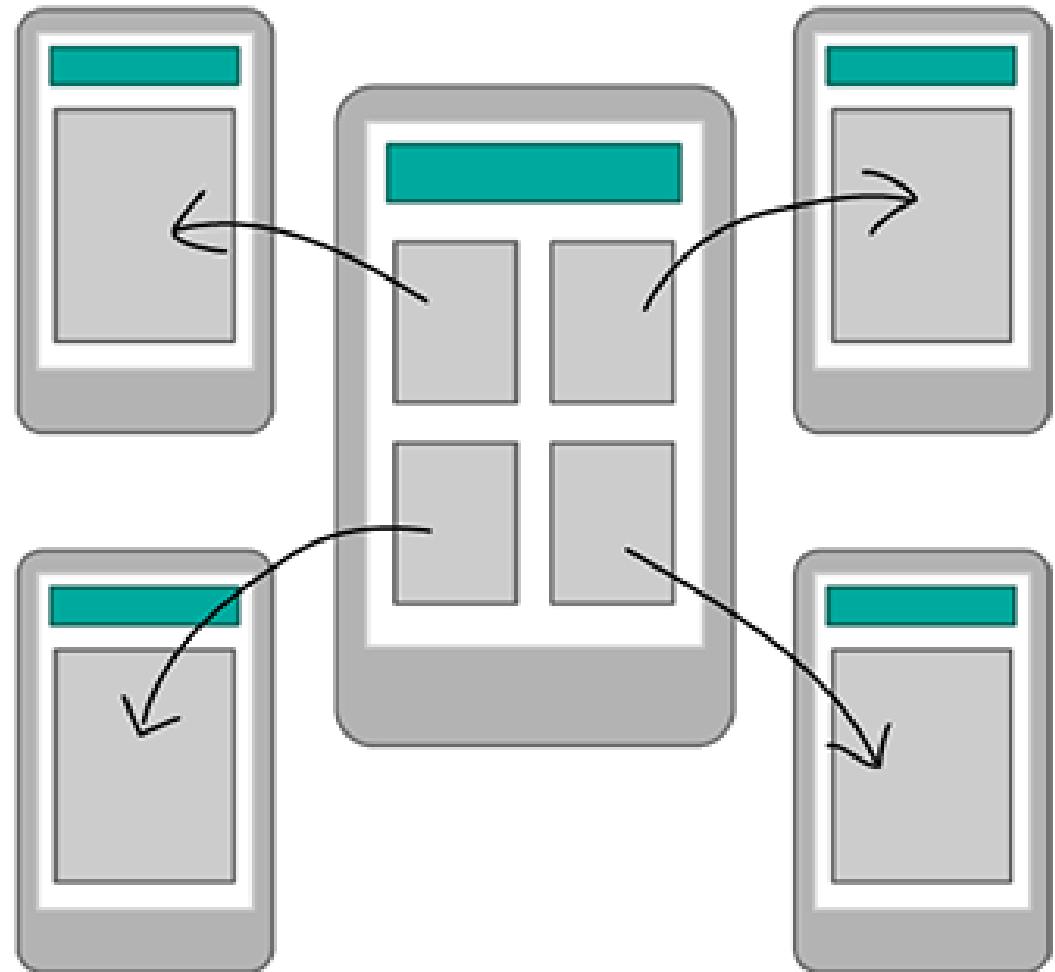
Hierarchy

- **Description:** A structure with an index page and subpages, following a traditional hierarchy.
- **Example Activity:**
 - Index Page: MainActivity showing a list of expense categories.
 - Sub Pages: Clicking a category opens DetailsActivity to view detailed transactions.
- **Good for:** Apps with complex structures, like Expense Tracker apps.
- **Watch for:** Navigation issues on small screens.



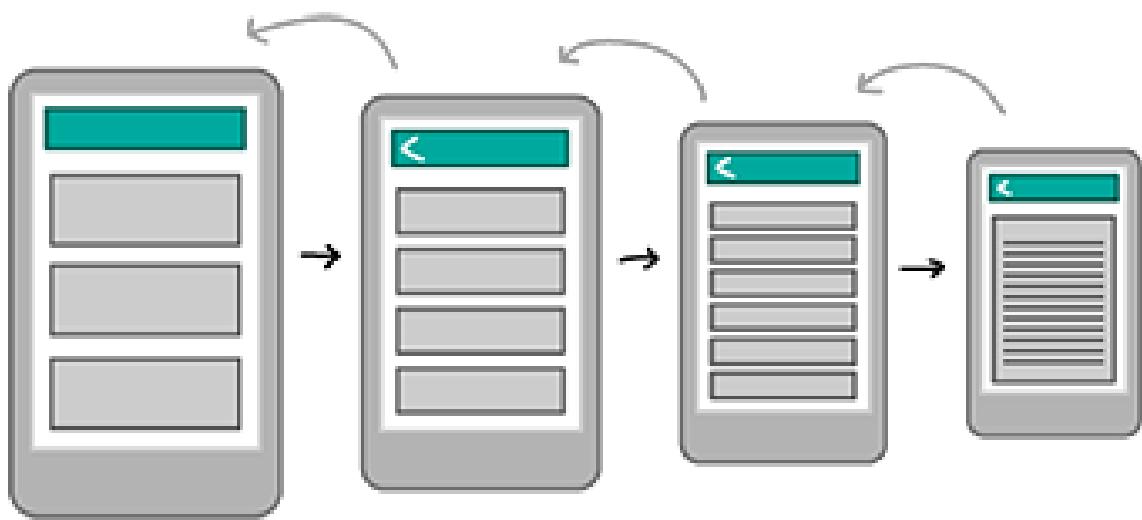
Hub & Spoke

- **Description:** A central hub (main screen) allows navigation to various spokes (functional screens).
- **Example Activity:**
 - Hub: HomeActivity in an e-commerce app displaying categories like Electronics, Clothing, etc.
 - Spokes: Clicking "Electronics" opens ElectronicsActivity; users must return to HomeActivity to navigate elsewhere.
- **Good for:** Multi-functional apps like **Amazon Shopping**.
- **Watch for:** Lack of multitasking between sections.



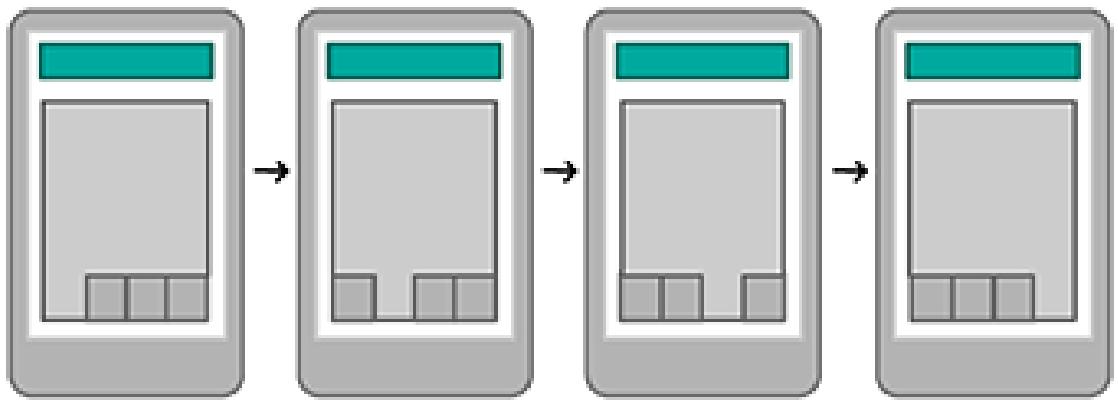
Nested Doll

- **Description:** Leads users in a linear manner to progressively detailed content.
- **Example Activity:**
 - First Level: CategoryActivity listing blog topics.
 - Second Level: ArticleListActivity showing articles under the selected category.
 - Third Level: ArticleDetailActivity displaying the full article content.
- **Good for:** Apps like News Feeders (e.g., **Google News**).
- **Watch for:** Difficulty switching between categories without starting over.



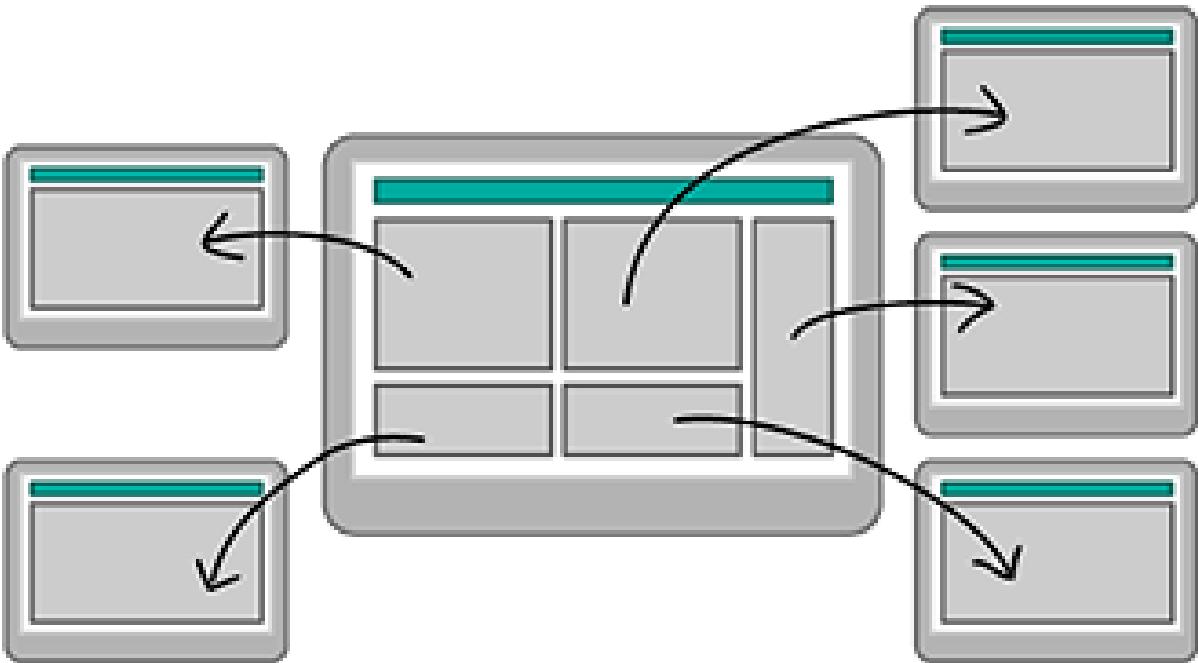
Tabbed View

- **Description:** Sections tied together by a toolbar menu for quick access.
- **Example Activity:**
 - MainActivity: **Tabs like Chats, Status, and Calls in WhatsApp.**
- **Good for:** Tools-based apps with similar themes.
- **Watch for:** Complexity if the content structure is too detailed.



Bento Box/Dashboard Pattern

- **Description:** Displays detailed, related content directly on the index screen using a dashboard interface.
- **Example Activity:**
 - **DashboardActivity:** In a financial app like **Google Pay**, shows sections for Balance, Recent Transactions, and Offers.
- **Good for:** Tablet or multi-functional apps with similar themes.
- **Watch for:** Overcrowding and poor user interaction if not well-designed.



Filtered View Pattern

- **Description:** Allows navigation by applying filters to datasets for tailored views.
- Example Activity:
- **FilterActivity:** In a food delivery app like **Zomato**, users filter restaurants by cuisine, rating, or delivery time.
- **Good for:** Apps with large content like articles, images, or videos.
- **Watch for:** Displaying filters effectively on small screens.

