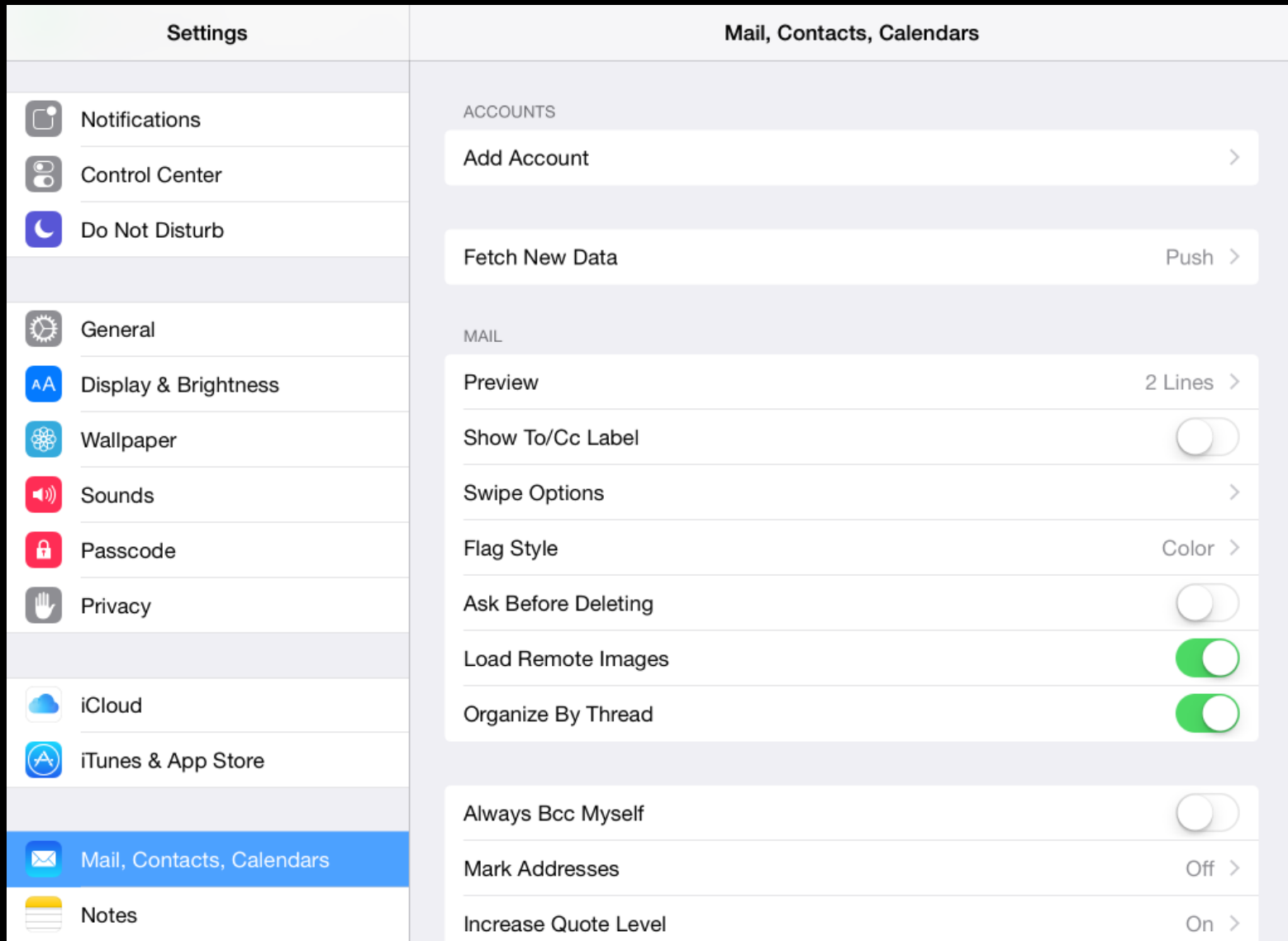Mobile Application Development
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SPLIT VIEW CONTROLLERS

Split View Controllers

- A split view controller is a full-screen controller that manages the presentation of two child view controllers
  - Primary pane (master): persistent information
  - Secondary pane (detail): related information to the selected item in the primary pane
- Before iOS 8 split view controllers were only available on the iPad

Split View

Split View Controllers

- Split view controllers must be the root view controller for an app.

- The panes in a split view can contain any other type of controller.

- **UISplitViewController** class
  - The **viewControllers** property is an array that stores the two controllers.

- The **UISplitViewControllerDelegate** protocol manages the presentation of the child view controllers.

Split View Controllers

- Split view controllers use the size class to decide how to arrange its child view controllers
  - Horizontal regular: tries to display both panes side by side
    - iPad and iPhone 6 and 6s plus
  - Horizontal compact: only the secondary pane is displayed. A navigation button reveals and hides the primary pane. The primary pane is layered on top of the secondary pane when visible.
    - All other iPhones

Display Mode

- The split view controllers **preferredDisplayMode** property specifies the display mode **UISplitViewControllerDisplayMode**

- The display mode will be set automatically or you can change it

- The split view controller will try to respect the display mode you specify but may not be able to accommodate that mode because of space constraints.

Display Mode

UISplitViewControllerDisplayModeAutomatic

- chooses the best display mode

UISplitViewControllerDisplayModeAllVisible

- both view controllers are displayed on the screen, primary on the left typically narrower than the secondary on the right.

UISplitViewControllerDisplayModePrimaryHidden

- the secondary view controller is displayed, the primary view controller is not

UISplitViewControllerDisplayModePrimaryOverlay

- the secondary view controller is onscreen and the primary view controller is layered on top of it

Display Mode

- The `displayModeButtonItem` method adds a bar button item that will show the primary pane as a popover

- When tapped it tells the split view controller to change its current display mode

- `targetDisplayModeForActionInSplitViewController()` provides the display mode

- This method is also called during rotation

Rotation

Popovers

- A popover is a temporary view that is revealed when the user taps the button on the toolbar

- Popovers can contain any view, but in a split view horizontally compact(portrait) it will contain the hidden left pane

- A popover should be dismissed when it's no longer needed(user makes a choice, taps outside the bounds of the popover, or taps a Done button)

- **`UIPopoverPresentationController`** class and **`UIPopoverPresentationController Delegate`** (added in iOS8)

Popover

iPad iOS9 Multitasking

- Slide-over lets users overlay an app to briefly interact with it and then hide it
- Split-view lets users display two apps side-by-side
  - Users can view, resize, and interact with both apps
- Requires iPad Air 2 or later
- iPad apps built with the iOS 9 SDK automatically have these capabilities
  - Must support all orientations