Creating Settings Screens and Accessing SharedPreferences

Jim Wilson

MOBILE SOLUTIONS DEVELOPER & ARCHITECT

@hedgehogjim   blog.jwhh.com

What to Expect from This Module

Settings Screens Overview

Creating a Settings Screen

Settings Screens Resource and Classes

Settings Screen Customization

Managing Preference Summaries & Defaults

Accessing SharedPreferences Data

Settings Screens

Apps generally have settings screens

- Provide user customizable preferences

- Implementing follows a standard model

Settings Screens

Preference organization
- Group related preferences together

Preference presentation
- Display preference title
- Display preference summary
- Allow user to modify preference value

Preference storage
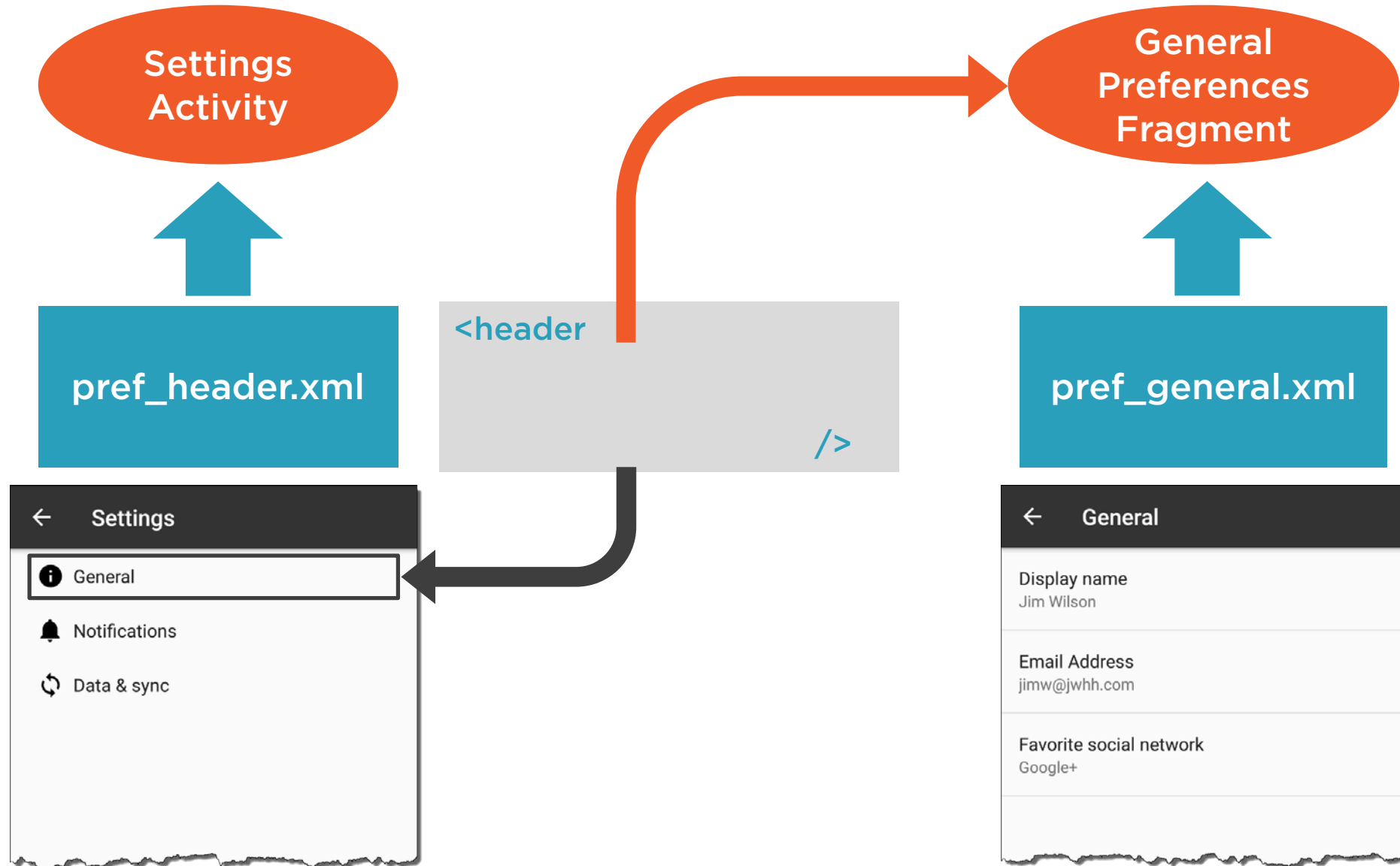- Store as name/value pair
- Provide default value

Settings Screens

Preference system

- Simplifies implementation
- Preferences described declaratively
- Settings-oriented UI classes
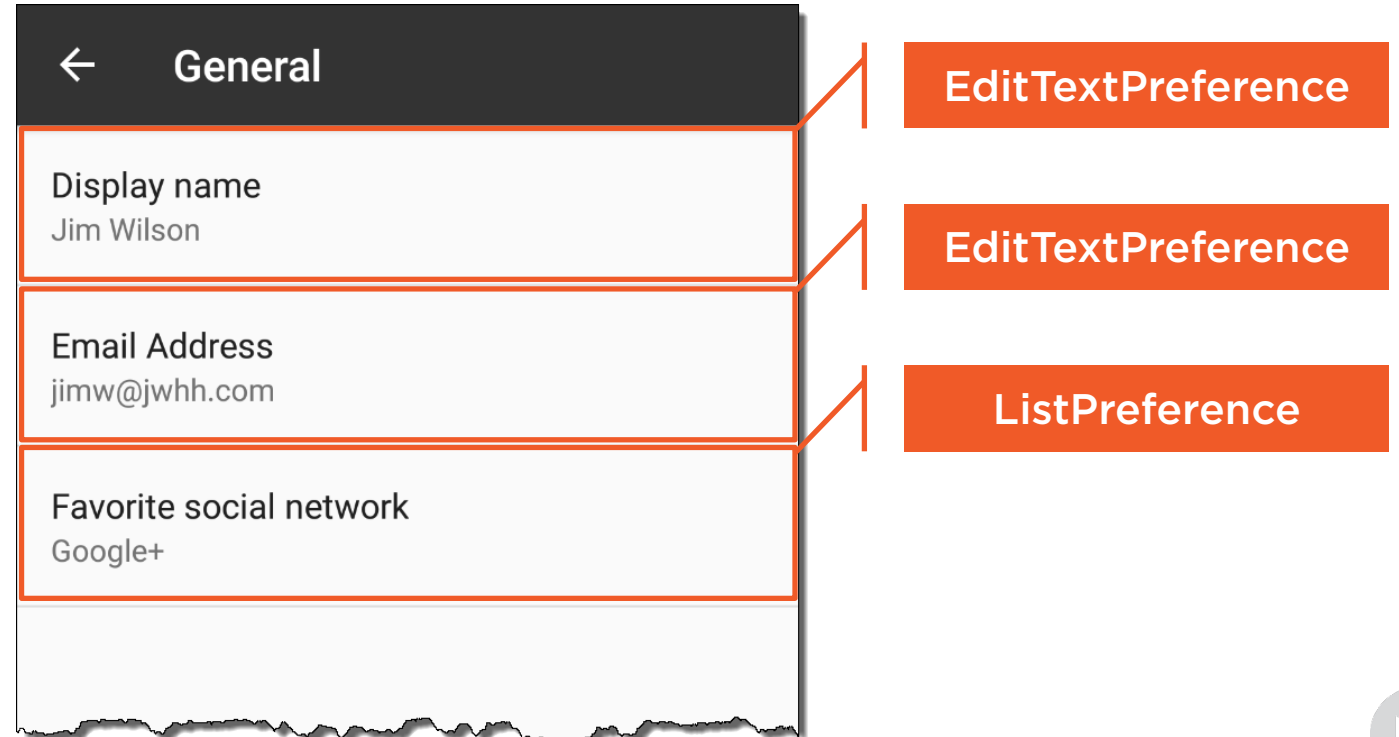- Name/value pair storage management

Settings Screens Resources and Classes

Settings Screens Resources and Classes

Preference-derived classes handle UI details

- Manages storage
- Presents title and summary
- Provides appropriate UI experience
  - UI experience driven by type

Summary

Most apps have settings screens

- Provide user customizable preferences
- Follow a standard pattern

Preference system

- Simplifies implementation
- Preferences described declaratively
- Settings-oriented UI classes
- Name/value pair storage management

Summary

Settings screen

- Provided by activity class
- Resource lists sections
- Indicates class for each section

Sections of settings screen

- Provided by fragment class
- Details declared in a resource

Summary

Preference-derived classes
- Handle UI details
- Manage storage

Housekeeping tasks
- Update summary on value change
- Initialize defaults

Accessing values
- SharedPreferences.getXXX methods
- Returned by PreferenceManager