

Mobile App Development – Android

MAP524S1A

Week 9 – Shared Storage

Shared Storage

- Use shared storage for user data that can or should be accessible to other apps and saved even if the user uninstalls your app
 - Media content: The system provides standard public directories for these kinds of files
 - Documents and other files: The system has a special directory for containing other file types
 - Datasets: On Android 11 (API level 30) and higher, the system caches large datasets that multiple apps might use.

SharedPreferences

- If you have a relatively small collection of key-values that you'd like to save, you should use the SharedPreferences APIs.
- SharedPreferences object points to a file containing key-value pairs and provides simple methods to read and write them
- Each SharedPreferences file is managed by the framework and can be private or shared.

SharedPreferences

- You can create a new shared preference file or access an existing one by calling one of these methods:
 - `getSharedPreferences()` — Use this if you need multiple shared preference files identified by name, which you specify with the first parameter.
 - `getPreferences()` — Use this from an Activity if you need to use only one shared preference file for the activity.

Progress Bar

- A user interface element that indicates the progress of an operation.
- Progress indicators inform users about the status of ongoing processes, such as loading an app, submitting a form, or saving updates.
- They communicate an app's state and indicate available actions, such as whether users can navigate away from the current screen.

Progress Bar

