



Week 7: Storage

UW PCE Android Application
Development Program Course 1 –
Android Development Fundamentals

Agenda

- Week 6 review
 - Activities
 - Intents
- Storage

Android persistent data

- Android provides a number of ways to save persistent data
- Each method depends on the specific needs of the application.
- The following are the methods used in Android to persist data:
 - Shared Preferences
 - store of private primitive data in key-value pairs
 - Internal Storage
 - store private data on device memory
 - External Storage
 - store public data on the shared external storage
 - SQLite Databases
 - store structured data in private database
 - Network connection (Cloud)

SharedPreferences

- **SharedPreferences** is used to store and retrieve primitives
 - boolean, float, int, long, String
- Data written to **SharedPreferences** persists across user sessions
- Written in files, stored on the system, and is private to the application.
- To use,
 - **getSharedPreferences()** – if you need multiple preferences files identified by name
 - **getSharedPreferences()** – if you are using only one preferences file for your activity
 - Call **edit()** to get a **SharedPreferences.Editor**
 - Add values using **putBoolean()**, etc, corresponding to the type
 - Call **commit()** to commit the new values.