PROG3150 Lecture 10

Mobile Application Development

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Agenda

Adding Analytics to your application

Reasons for Analytics

- Tracking feature usage
- Tracking monetization strategies
- Tracking device details
- Tracking language/country of use
- Capturing exceptions
- Getting context for bug reports

Analytics Libraries

- Flurry
- Bango
- Apigee
- Mobylitics
- Google
- and more on the way



Bango Documentation

Or You can do it yourself

Advantages

- No limits on the amount and content of data collected
- You decide on where and how long data is stored
- Use alternate methods of sending data

Disadvantages

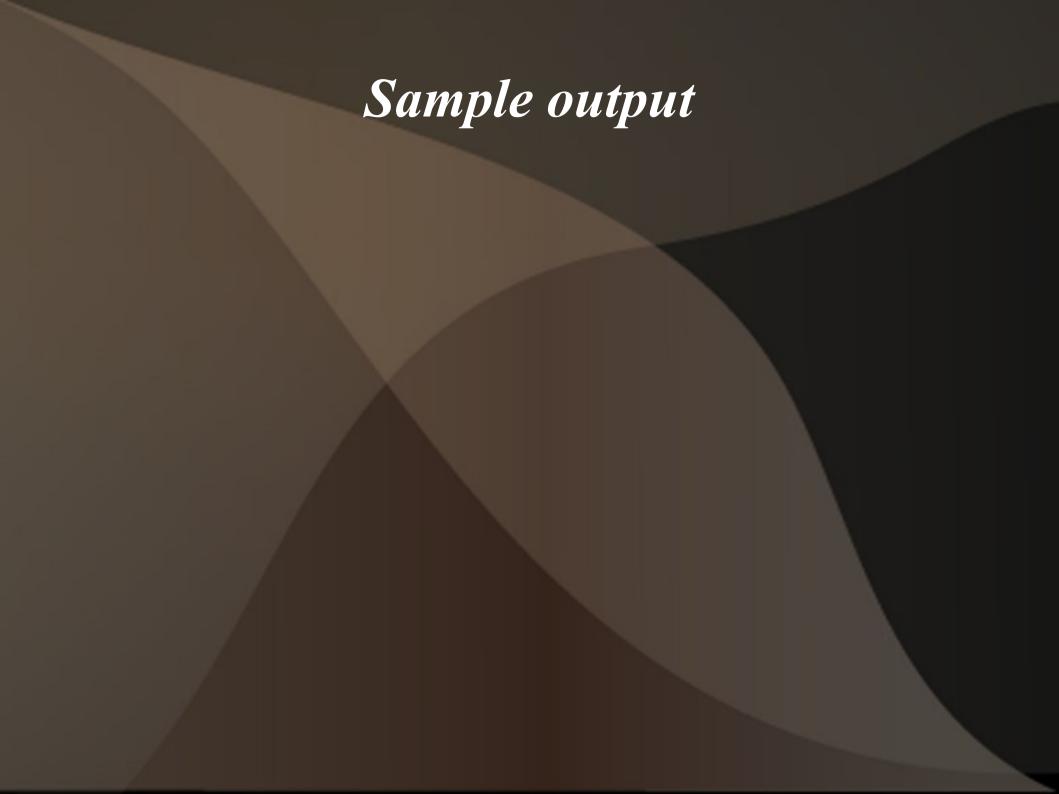
- Develop custom networking code
- Server side storage required
- If you want fancy displays, do it yourself

In any case...

- Never collect data without notifying the user
- Never send identifying data without showing it to the user first and asking permission
- Limit large data transfers to WiFi connections
- Cache data to some known limit and delete the remainder

DIY Implementation

- Catch all exceptions
- Add application wide exception capture for uncaught exceptions
- Log exception message + stack
- For each caught exception, ask user if it can be reported via email
- For each uncaught exception, ask user on restart
- Log data stored in round robin files



CrashHandler Class for Android