**Device Persistent Data Strategy**

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Android Persistence:

* SharedPreferences, name/value pairs into an XML file
* Internal storage File, getCacheDir()
* NOT Android external storage (but what if internal storage fails?)
* SQLite database
* Old phones want 1MB data max

1) How to obtain information for new user introduction?

Options include:

* comes preloaded in app (simple and fast, but can’t be changed)
* go to website (flexible, needs web connection)
* download new version when starting up (more traffic, user must wait, needs API call)

Decision: choose website.

2) How is activities list loaded for the *What’s Next* screen?

Options include:

* comes preloaded in app, but checked before showing screen?
* Always loaded when showing screen?

One is a subset of the other. Need to change API call from

**HTTP GET api/v1/activities?token=<token>&threshold=threshold\_enum**

to

**HTTP GET api/v1/activities?token=<token>&threshold=threshold\_enum &have=<version>**

which will return "have" if nothing new. <version> is a simple integer.

Decision: If the always load approach is slow, choose second.

3) Groups

In datastore. Starts off being empty. An API call will populate, and also sync at appropriate times.