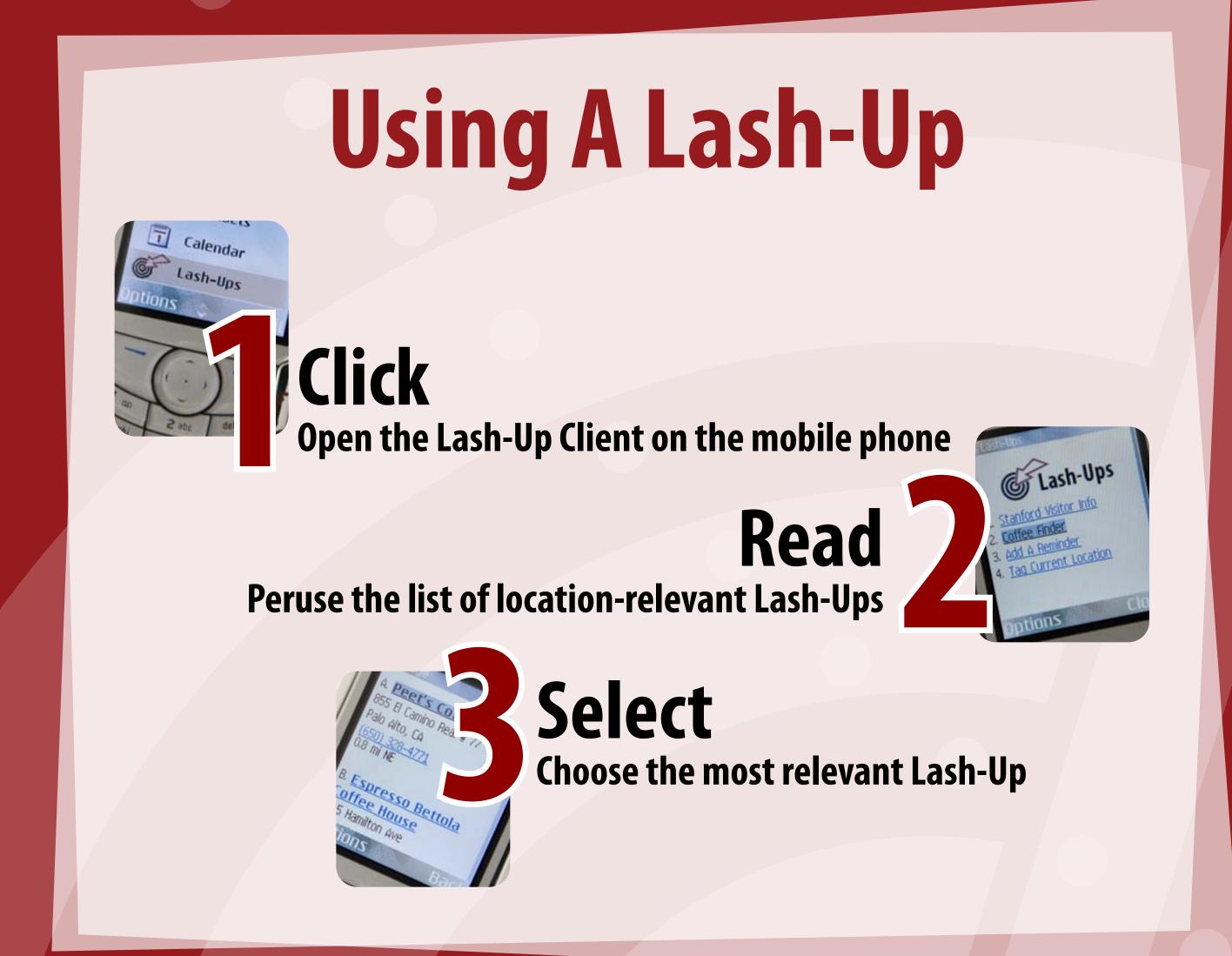
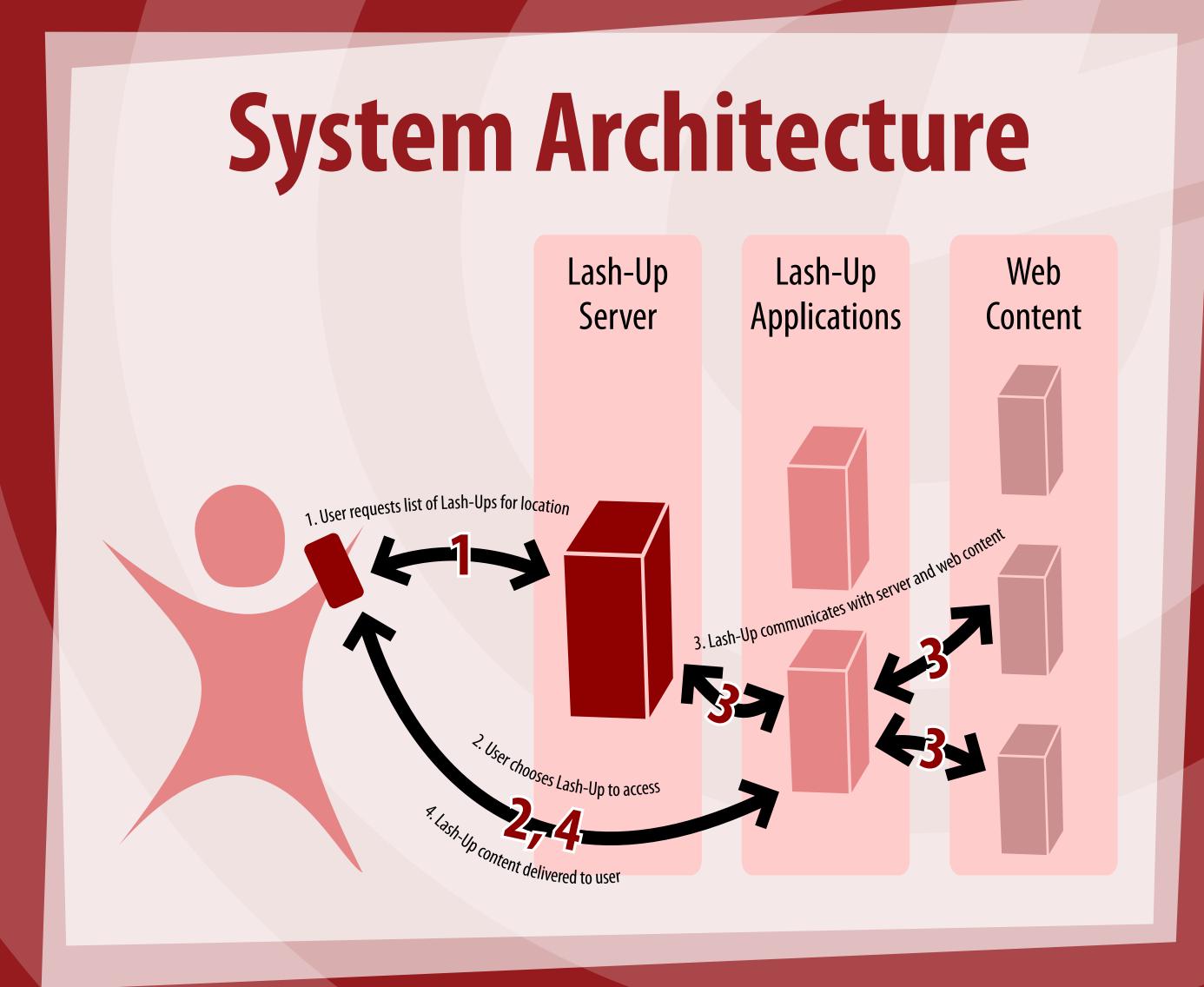
251-UDS A Toolkit for Location-Aware Mash-Ups Joel Brandt and Scott R. Klemmer





What Are Lash-Ups?

Lash-Ups are location-aware mash-ups of web content for mobile devices.

The Lash-Up Toolkit makes writing Lash-Ups easy by providing:

- An API that makes it easy for programmers to integrate a user's location information into a Lash-Up
- A common distribution method that makes it simple for users to find and access Lash-Ups relevant to their location

Hacking the Long Tail

Commercial development efforts typically target a few large applications with a large user base.

Instead, we suggest that location-aware computing is more likely to succeed through a large number of small applications targeted at specific locations and tasks.

Rather than supporting the development of the next "killer app", the Lash-Up Toolkit specifically addresses the needs of development within the long tail of the application space, allowing the creation of a killer ecology.

Why Lash-Ups?

Lash-Ups make sense for four primary reasons:

- Location-aware computing is more likely to succeed through a killer ecology of many small applications rather than a few large applications.
- These applications need to be kept up to date, which is more manageable in a user-supported development community.
- Many applications simply consist of providing pre-existing information in a useful location, which matches the mash-up paradigm perfectly.
- Web delivery of applications is straightforward and ubiquitous, and the programming model is familiar to a large number of programmers.

Programming A Lash-Up

Find

Locate web services to use in the Lash-Up

Google

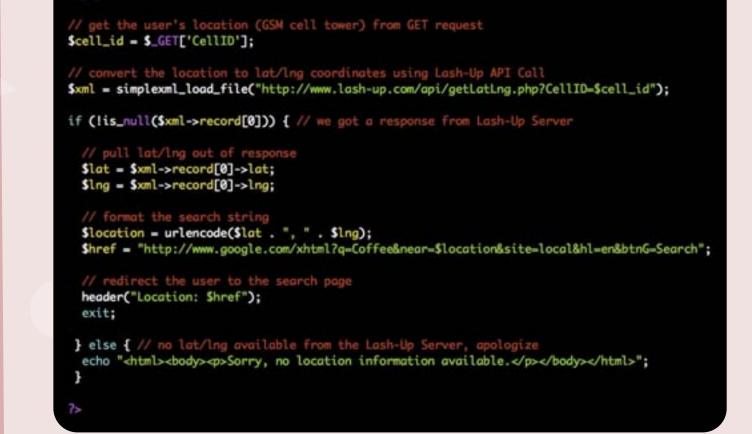
Current page:

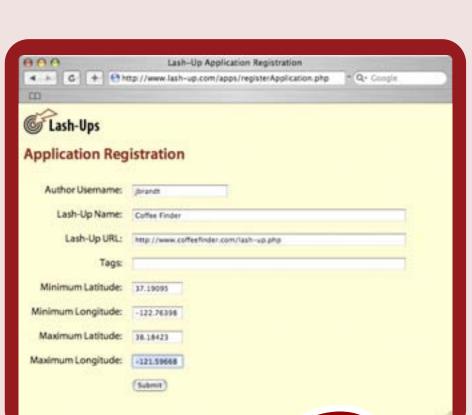
Web address:

http://www.google.com/>html?

-12217192@site=localGhl=en

Write a few lines of code using the Lash-Up API to glue content together with location information





Tell the Lash-Up Server about the new Lash-Up and specify the locations where the Lash-Up is useful



Tag

Use a cell phone to tag places with location information (or, rely on a community of users to do this for you)