Advanced Seaside

Philippe Marschall
ESUG 2014

Advanced Seaside

- WARestfulComponentFilter

- session tracking

- http://smalltalkhub.com/mc/marschall/ESUG-2014/main

- http://ss3.gemstone.com/ss/frank.html

WARestfulComponentFilter

Disclaimer

- REST in this context simply means "pretty URLs"

WARestfulComponentFilter

- new with 3.1

- Norbert's fault

- this is the missing documentation

WARestfulComponentFilter

- run "front page(s)" without session

  - "window shopping"

- run pages behind with session

- central place to recover from expired session

WARestfulComponentFilter

- "REST" filter that runs before the application
  - only when no session
  - or session is expired
  - can start session with any component instance

WARestfulComponentFilter

- if it runs, normal REST filter rules apply

  - <u>SeasideRest</u>

- up to you how HTML is generated

  - WABuilder/WAPainter

  - no callbacks

  - ...

Example 1

- counter

- all "pages" handled by filter and component

  - not the normal case

- not composable

Example II

- one two three

- first page just static content

- link to second page with static content

- third page with counter (and session)

Session Tracking

Session Tracking

- used to be implemented in WAApplication

- had a single flag

  - optionally use cookies

Session Tracking 3.1

- factored out into a strategy object

- can implement your own

- handles no or expired session

Session Tracking Fully Customizable

- query fields

- cookie only

- cookie if supported, query field otherwise

- cookie for browser, IP for crawler

- SSL session id (*)

- path parameter (*)

Query Field

- /?_s=KAAWl0x3c6KLnN6Q

- easy for development

- session per tab

- no issue with cookie laws

- no iframe issues (P3P)

Path Parameter

- ;_s=KAAWl0x3c6KLnN6Q/

- like query parameter

- doesn't have to be hidden field in form

- required by some load balancers

- "JavaEE" way

Cookie Only

- never shows up in links
  - never shows up in access logs
  - links can be copied and pasted
  - links can be sent by email
- session per browser
- crawlers don't accept cookies

IP

- option for crawlers

- same session for all browsers

- issues with

  - mobile clients

  - NATs

  - Proxies

SSL Session Id

- never shows up

- needs sever (adapter) support (3.1)

- SSL session has to be keep alive

- or client gets same id again

  - no SSL session cookies

Session Tracking Fully Customizable

- query fields

- cookie only

- cookie if supported, query field otherwise

- cookie for browser, IP for crawler

- SSL session id (*)

- path parameter (*)

Custom

- variant of any of those

- combination of any of those

- can rename field

- whatever else

  - eg. header set by security proxy

- client certificate

Example

- fake JavaEE

  - eg. Tomcat, JBoss

- eg. for load balancer

  - use existing load balancer infrastructure, configuration, documentation

  - jvmRoute left as an exercise

jvmRoute

- sticky session load balancing

  - no session replication

- attach image id / JVM id to session id

- /;jsessionid=KAAWl0x3c6KLnN6Q.42

- supported by "JavaEE load balancers"

Example

- jsessionid path parameter name

- JSESSIONID cookie name