

PJUG – Portland Java Users Group

“Giving your application Thumbs”

Jon Batcheller

FAT Tuesday Feb. 21st, 2012

Messaging Basics

- Sending & Receiving
- A connected service provider - Twilio
- A Phone Number

Provisioning

- In telecommunication, provisioning is the process of preparing and equipping a network to allow it to provide (new) services to its users.
- Getting a number – free sign up, \$1/mo
- SmsWs.java
- Now we have origin/destination number

What Happens – User Sending

- Service provider maps your new number to a URL - “Manage Numbers”
- You write a service to accept the “POST”
- User text's the phone number
- Deal with it! - simply a source and a message
- TwilioServlet.java

What Happens – Sending to a User

- You communicate with your providers web service – REST
- Very simple API – destination phone #, message
- SmsWs.java

Group Text Notification

- Assisted Living Caregivers
- “Charting” - getting vitals, checking up
- Communication - “hospital style”
- iPods & iPhones - loan

Vigilan's “Nurse Charting”

- Webapp – iPhone, iPod
- Vaadin mobile application
- JPA – Persistence architecture
- Cloud DB – Amazon in Virginia
- Visit resident and record vitals
- Notify administration and or caregivers of issues via text

Demo

- Web App
- Alerts
- Quick Vaadin review
- `AlertView.java`

Group Texting - “Social” Environs

- Group interaction – anonymity cool - Smack
- Watching Blazers, Superbowl, Grindhouse Movie
- Something else to do while watching and fun

Requirements

- Receive a SMS message and display it for all
- Let a user pick an alias – more smack and fun
- Store the alias with the phone number for their next visit
- Turn emoticon text into images – animated?
- Display must be simple and mindless – WIFI goes down, etc, etc

SmackTV - Backend

- Receive and store the text messages via POST from Twilio
- Embedded Derby database - KISS
- Display all messages via an installed Client – reboot – trouble free – fine if service or WIFI down
- Client gathers messages via a webservice, for simplicity
- REST service to get messages (and debug)

TwilioServlet.java

- Standard POST
- Sms.java
- Saves message in Derby – Embedded DB – DerbyClient.java
- GET method for debugging - DEMO

SmsMessageWs.java

- web.xml
- Jersey JSON Webservice container
- Get next message by Timestamp – for Client
- For debugging – add a message and get the list of messages

SmackTV Frontend

- Installed Swing Application
- Uses backend web service for messages
- Tolerant of WIFI and network outages
- Simple restart for the bartenders
- Test on localhost before deployment

SmackTVClient

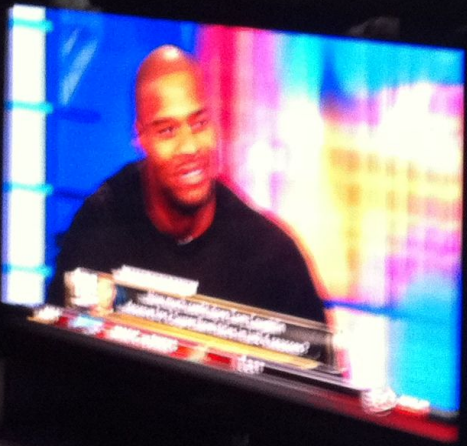
- MainFrame.java
- Fetch timer
- Cursor
- DEMO - localhost

Text frame containing chat messages:

- NoName1014: My name
- NoName1015: fu*k you
- NoName1016: The dude in yellow.. hi
- NoName1017: Hello, Hot Stuff!
- NoName1018: You girls are mean. :p
- NoName1019: Mahah sock it



SUNDAY'S
NINKASI
BREWING COMPANY
TOTAL
DOMINATION
IPA
\$3.50 ALL DAY
ALL DAY
FRIDAY
HERE WE
GO




com.solidware.smacktvclientApp

Greeley Avenue Bar & Grill

Smack TV (503) 822-6669

BigFun: Buffalo wings
NoName1032: Nick Rocks!!!!!!
NoName1033: Name Eurynomus
NoName1034: Name Budman
Eurynomus: Everyone owes Nick a drink
Budman: "Here Weeeego!!!!"



9:50 PT LIVE

SO

JEREMY'S JOURNEY

MAVERICKS KNICKS

PUJOLS TO SPEAK

MELO BACK TONIGHT?

BEST OF THE BEST

TOP PLAYS

LN'S 1st GAME



NBA

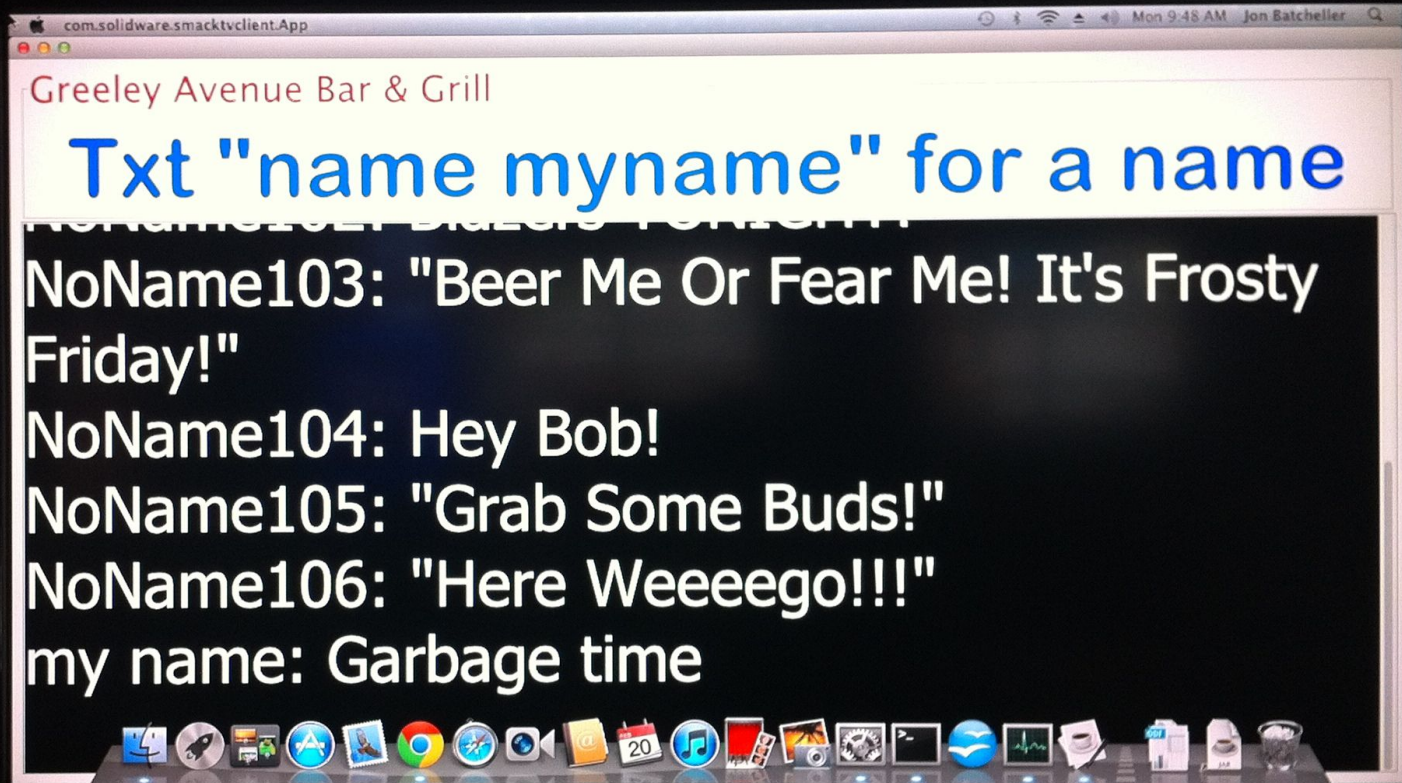
BLAZERS vs LAKERS

10:30 ET

NY 58 57 NJ

3rd 5:01 24





Greeley Avenue Bar & Grill

Txt "name myname" for a name

NoName103: "Beer Me Or Fear Me! It's Frosty Friday!"

NoName104: Hey Bob!

NoName105: "Grab Some Buds!"

NoName106: "Here Weeeego!!!"

my name: Garbage time



Drive thru Espresso

- Double thru-put of drive thru if we knew orders before they appear at window
- Over 80% drivers have cell phone, probably much higher for the type A folks getting a morning latte
- Solution – let customers text in their orders

Requirements

- Receive the text and display on an iPad via SMS
- Acknowledge the order with a single touch
- Track time from order to completion
- Be able to accept additions and changes
- Ask questions if order incomplete
- Keep a record of their order to repeat tomorrow with “reorder” command

Coffee

- GWT – Java Web Application that runs on an iPad
- Client/Server/Shared
- TwilioServlet.java – append & reorder
- SmsService.java
- SmsServiceImpl.java
- Coffee.java

Organic Espresso



503-406-6696 DEMO

