

Django and XMPP - Writing a real-time web app

(a.k.a How we are writing
wikipediagame.org)

What is Wikipedia Game?

Get from article A to article B, by clicking as few links as possible, as fast as possible.

We played against friends in the comp lab...



(Photo credit: <http://www.flickr.com/photos/jiscinfonet/351465890/>)

What if it was a real mutli-player online game?

wikipediagame.org

Multi-user game

Real-time click count everyone sees

Real-time chat

Community ranking.

More features to come...



Combine 2 great flavors

The Django logo, featuring the word "django" in a white, lowercase, sans-serif font with a registered trademark symbol, set against a dark green rectangular background.

MVC, admin interface, excellent existing drop-in apps.



XMPP

The web wants to be more *realtime*

How do you mix XMPP into the web browser (HTTP only?!)...

Tools from stanziq.com - these guys rock!

STR<>PHE

Strophe - XMPP javascript client
<http://code.stanziq.com/strophe/>

PUNJAB

Punjab - HTTP<->XMPP connection manager
<http://code.stanziq.com/punjab>

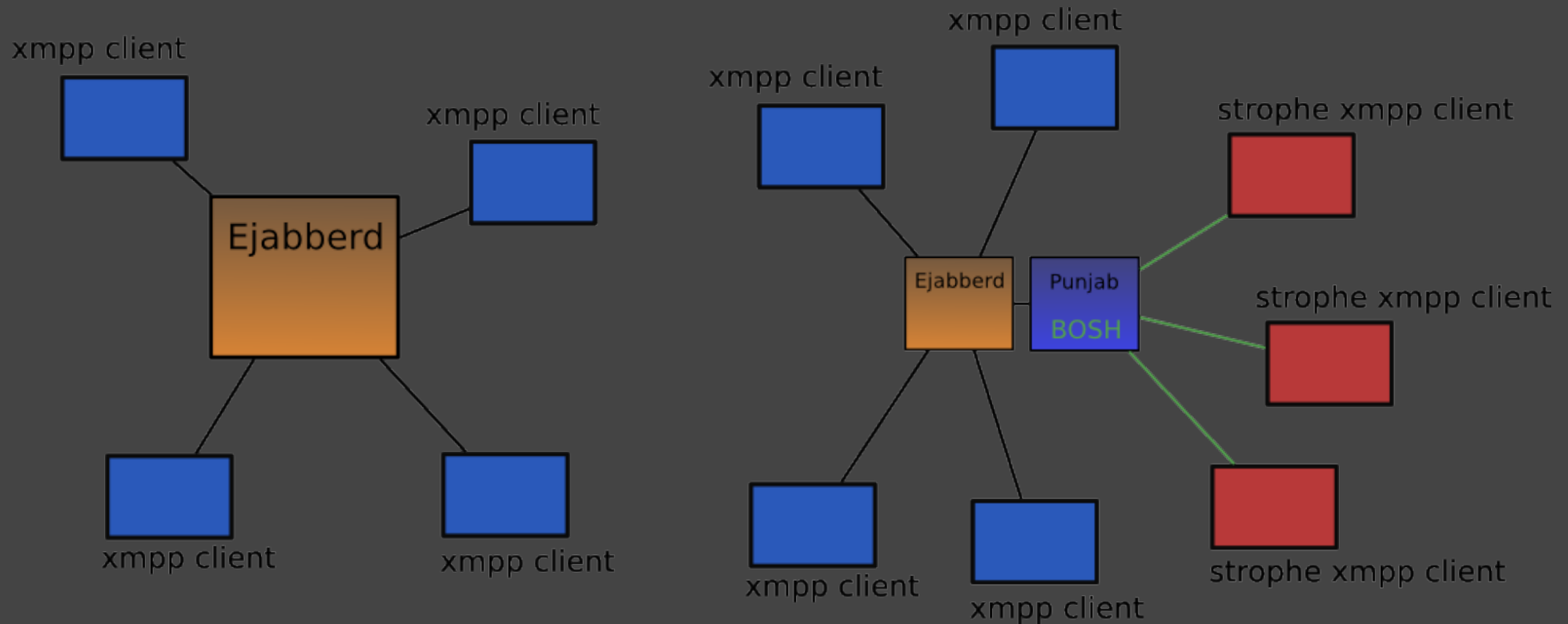


speeqe

chat now!

Speeqe - Web based group chat app - learn a lot
<http://code.stanziq.com/speeqe>

BOSH, Comet, XMPP



XMPP Multi User Chat is cool.

BOSH: Comet long polling technique = push capabilities in browser

BOSH + Strophe = XMPP in the browser!

Django fits in...

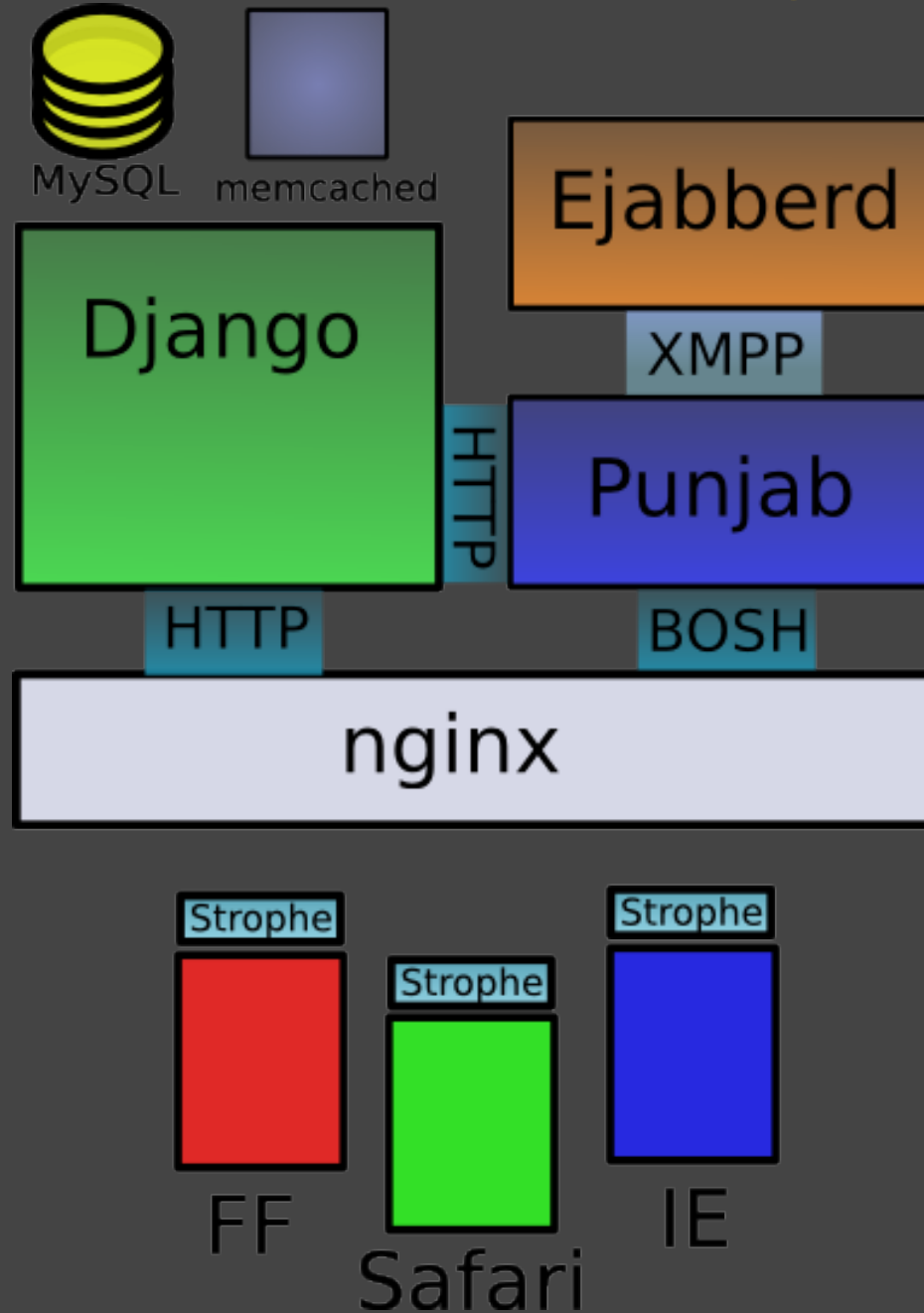
User management using standard Django wonderfulness

Jabber accounts can also be managed from Django (Python!)

XMPP authentication via *session attachment* through Punjab

Users only authenticate once, even though they are actually logging into two entirely distinct systems: django & ejabberd.

Architecture of wikipediagame.org



Thanks!

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Resources:

- <http://wikipediagame.org>
- <http://stanziq.com>
- <http://djangoproject.com>
- <http://xmpp.org>
- <http://xmpp.org/extensions/xep-0124.html>
- <http://www.slideshare.net/metajack/the-real-time-web-with-xmpp>