part 3 of 3 [in the creation of the Fedora symbol]
Ultimate Goals

- to consolidate Fedora infrastructure resources under one unified collaborative interface
- to integrate upstream resources into the Fedora workflow
- to lower the barrier to entry for people who want to work inside Fedora as well as working alongside Fedora

Current Goals

- to provide a single interface that integrates FAS, Koji, Bodhi, and PackageDB
Overview

Moksha Platform

MyFedora Components

Pieces of the Puzzle

The Interface

Fedora Infrastructure

Resources

Moksha App Platform

Datastreaming and Caching Layer

Other Components

MyFedora Components

Fedora Community Web App

Future Home:
https://admin.fedoraproject.org/community
Moksha is an API layer and application engine which integrates data and applications from many sources under one interface.

The Platform

- allows running applications as standalone web apps but can pull apps together to make a larger app
- provides a python API on top of TurboGears 2
- provides a JavaScript API on top of jQuery
- Apps not built in python can be integrated via the JS API
- platform based on WSGI so pieces can be used in other WSGI complaint application engines

Datastreaming and Caching Layer

- designed to make getting data from many different sources efficient and easy
- base on orbited, AMQP, memcached and beaker
MyFedora components make up the bulk of Fedora Community. This is where all of the Fedora specific components live and are tied together to form Fedora Community.

The Components

- Moksha Applications
- Moksha Derived Tosca Widgets
- jQuery/UI derived widgets
- Fedora CSS theming
- Data Connectors for Fedora Resources

Applications

- Alerts
- Tasks
- My Packages
- Package Table
- Builds Table
- Updates Table
- Table Quick Filter
- Search Table
The Interface – You are looking at it

Fedora Community is built from a collection of MyFedora applications. Container applications, such as the main navigation, can hold and display other applications.
The Chrome – Basic theming for Fedora Community

The chrome is a container which wraps the entire app with the site style and branding. It also sets up all of the common CSS and JavaScript resources which are expected to be available to child applications. In Fedora Community the chrome consists of the top logo and header bar (along with a search and login status on the actual site), the side black borders and a footer legal notice.
The Main Nav – Tabbed container with links to all the main applications

The main navigation container is derived from the jQuery.Ui.tabbed() widget. The tabs are located on the right hand side of the screen with the content panes filling up the rest of the space to the right. Clicking on one of the tabs loads a new content pane without having to refresh the Chrome.
The Sub Nav – A tabbed container which holds the user applications

The sub navigation container is a tabbed container much like the main navigation container except for its tabs are on the top and content page on the bottom. It is also derived from the jQuery.UI.tabbed() widget but has different caching characteristics. An application derived from the sub nav app could do things like allow the user to add or remove tabs, giving them the ability to customize their views.
The Dashboard – A container that runs multiple apps on the same page

Dashboard containers are just another container but instead of showing one application at a time it allows multiple applications to be displaced at once in columns. Applications on a dashboard can become aware of each other and communicate to form a larger application.
Applications – Individual apps are self contained web applications

These are just each of the individual applications that make up the final view. These applications are self contained and can run and be developed on their own though some are meant to be hooked up to another application to be useful. They can be containers or even be a collection of other apps.

Package python-fedora

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<th>BUILD</th>
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<th>Built By</th>
<th>Time</th>
<th>State</th>
<th>Release</th>
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</tbody>
</table>
We Would Like to Request Some Tweaks

- Fedora Community is based on the Fedora Infrastructure workflow and data
- We can get interesting views with the current data interfaces but...
  - we aren't as efficient as we could be
  - data access from resource to resource varies in depth and breath
  - some resources like planet have no correlation on their data keys (yet)

We Are Willing to Submit Patches

- and work within schedules
- and rewrite patches based on constructive input
• Nice Query API - sort, search, paginate, countOnly
  • would be nice to
    • restrict columns
    • specify lists of user and package ids, etc.
    • have the ability to group data as single rows
      • e.g. by package id's to show latest builds in each repository
      • or with the ability to specify multiple packages and tags we could restrict this to two calls
• I use listTaskOutput to get rpms and log files
  • doesn't always give rpm lists but they are available on koji page w/ direct links instead of/cgi links
  • no point replicating logic if koji can provide an API
• Alerts Needed – Anytime a build changes state
  • Allows our data layer to update data on the fly as well as keeping caches up to date
Could use a more complete query API as outlined in the Koji slide
Dist name to release table exposed (easy to cache but we don't want to be the authority here)
Query Requests

- Username to blog url (someone was doing this)
- Group info without getting the info of every person in that group
- Sortable columns
- Keys lists such as being able to ask about more than one group or more than one person
- Search interface be merged with group and user queries so I can pass a wildcard and get the same data I would get back if I explicitly requested the users returned with the search
- Pagination on queries that do not have them yet

Alerts

- User data (update, add, remove)
- Task assigned or available to user
Query Requests

- Sortable columns
- Ability to restrict columns
- Don't always need all the associated users
  - Counts are useful
  - Paginating the users is also useful
- Lookup tables can be easily cached so we don't need them returned every query. Better yet, that is all logic that can be filled in on the server instead of returning codes.

Search integrated with queries

- Ability to specify a list of package names or users

Alerts

- Whenever a package's ACL's change or a package is added or removed
Fedora Community Project Page:  
http://johnp.fedorapeople.org/fedora-community/

Fedora Community Test Instance:  
https://publictest16.fedoraproject.org/community/

MyFedora Docs:  
http://fedoraproject.org/wiki/MyFedora

MyFedora Trac:  
https://fedorahosted.org/myfedora/

Moksha Docs:  
http://lmacken.fedorapeople.org/moksha/

Moksha Trac:  
https://fedorahosted.org/moksha/

3\textsuperscript{rd} Party Resources:  
TurboGears 2 - http://turbogears.org/2.0/docs/index.html
jQuery - http://jquery.com
jQuery.UI - http://ui.jquery.com/