

# Application Integration at the University of Málaga

Victoriano Giralt

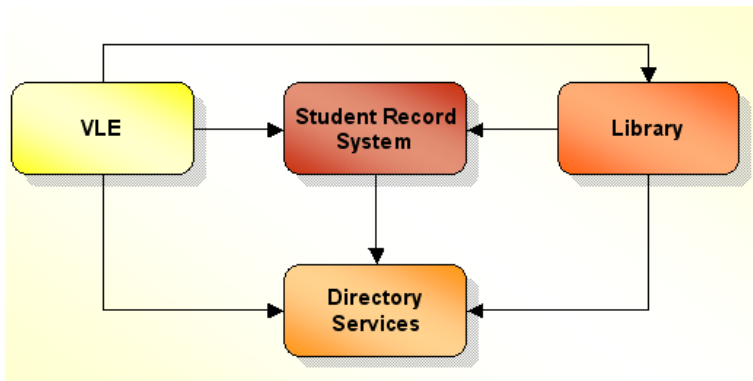
Central ICT Services  
University of Malaga

Advanced EuroCAMP  
Budapest  
November 18th 2009

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? ? ? ?  
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# An ideal

## Enterprise Application Integration for Universities



# Central ICT clustered apps

Tools for collaborating

The screenshot shows the 'Miduma' web application interface. At the top left, the name 'Miduma' is written in a handwritten-style font. In the top right corner, there is a logo for 'UMA' (Universidad de Málaga) with the text 'UNIVERSIDAD DE MÁLAGA' below it. Below the header, there is a navigation bar with a dropdown menu showing 'Ir a grupo', a 'Volver a inicio' button, and a 'Cerrar sesión [ ipm ]' button. The main content area is titled 'Ciencias' and contains two links: 'Información sobre el grupo' and 'Eliminar grupo'. Below this, there is a section titled 'Aplicaciones disponibles' which lists several tools: 'Wiki - administrar', 'Blog - administrar', 'Foro - administrar', 'Consigna - administrar', and 'Sympa - administrar'. At the bottom of the page, there is a copyright notice: '©2009 Servicio Central de Informática - Universidad de Málaga'. In the bottom right corner, there is a circular logo for 'RSIS' (Red de Servicios de Informática de la Universidad de Málaga).

# Central ICT clustered apps

Tools for collaborating

We want to provide tools for groups to work together



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- Group management



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- Group management
- Wiki
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- Web file sharing
- ...

all of them sharing the same credentials



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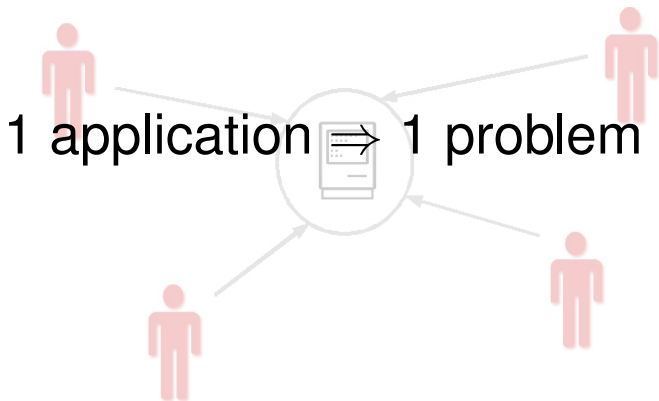
- Group management
- Wiki
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- ...

all of them sharing the session



# The platform application

a cure for our problems



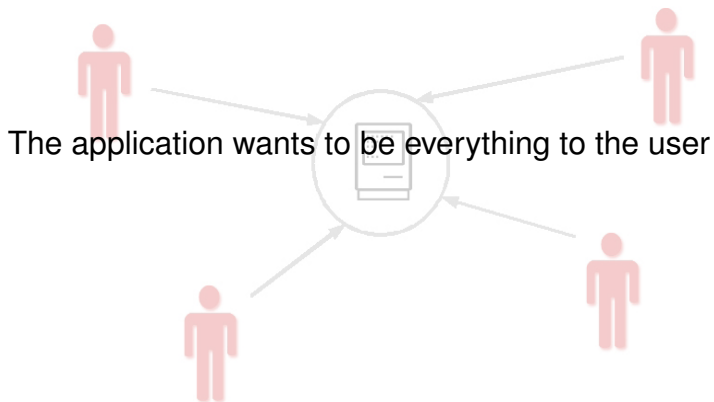
# Application centric

the paradigm of the monolithic platform



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# The feature race

and endless rush to nowhere



Severe case of kitchen sink syndrome



# The platform application

a cure for our problems?

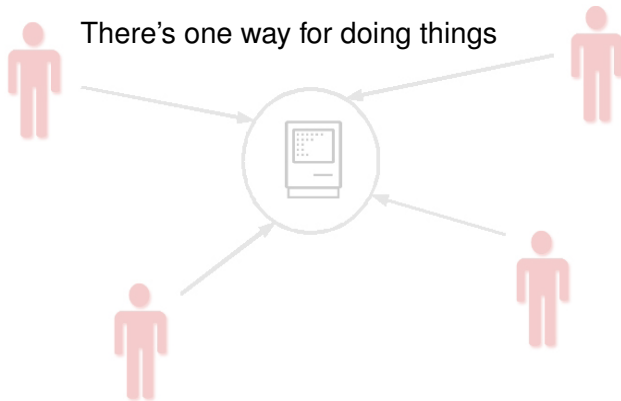


Applications have an attitude



# The platform application

a cure for your problems?



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a cure for your problems?



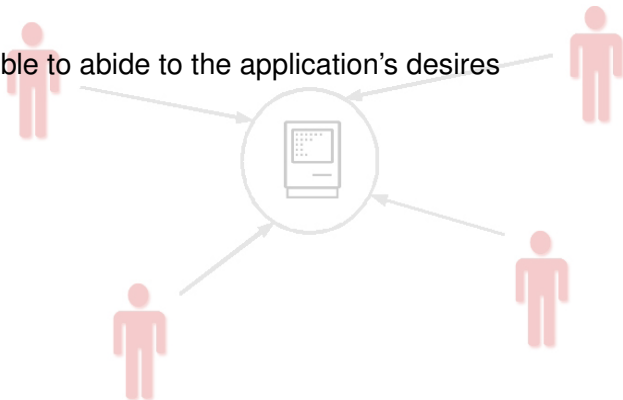
There's one way for doing things



# Provisioning

bending processes to *the attitude*

It is possible to abide to the application's desires

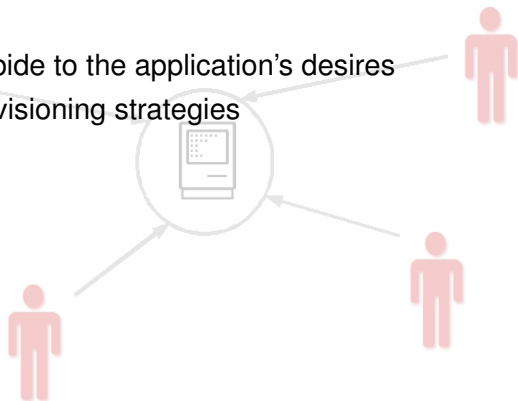


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- Devising provisioning strategies



# Provisioning

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It is possible to abide to the application's desires

- Devising provisioning strategies
- Using not much extended technologies

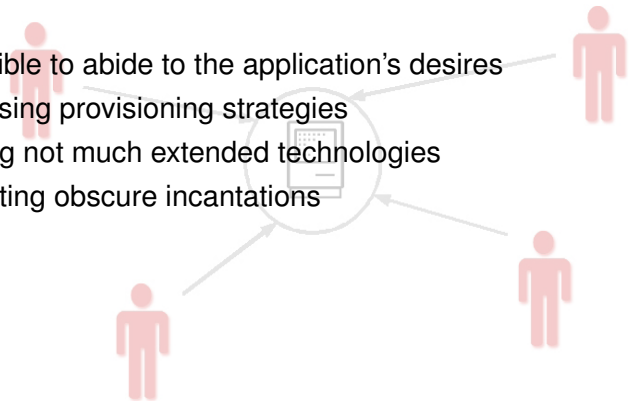


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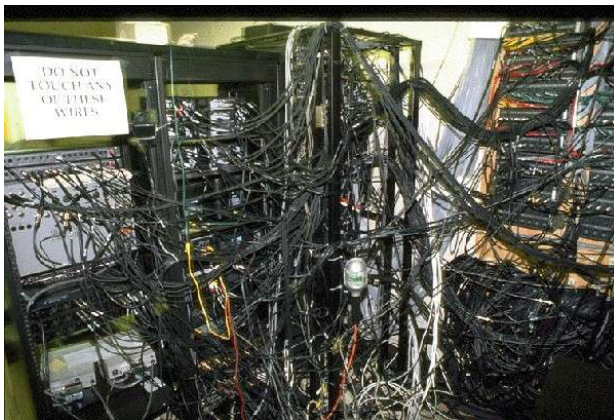
It is possible to abide to the application's desires

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- ...



# Provisioning

bending processes to *the attitude*



# The institution

hostage to the application



personal tribute to Ingrid Betancourt



# Users with previous experiences

they bring expectations



# Are we doomed?

what can developers and sysadmins do?



# FIAM

Federated Identity is coming to our rescue



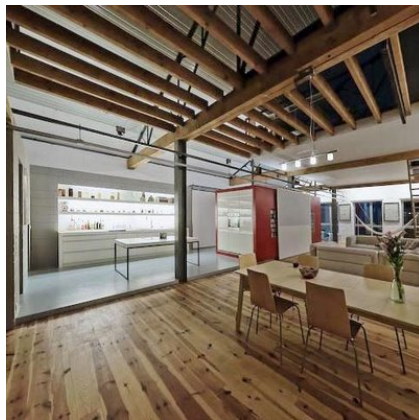
# Old model

## rooms and walls



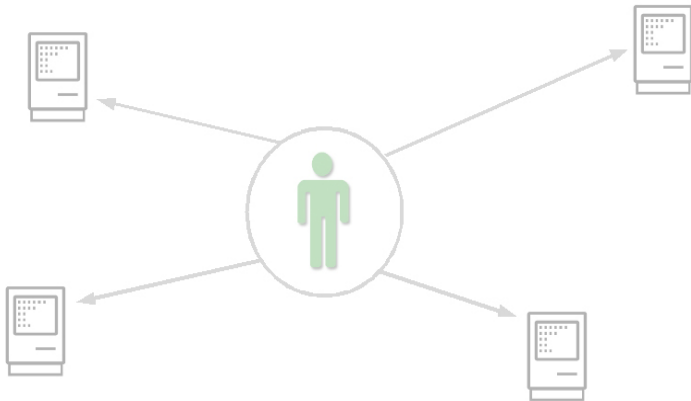
# New model

an open seamless space



# User centric

use the identity to put the user in control



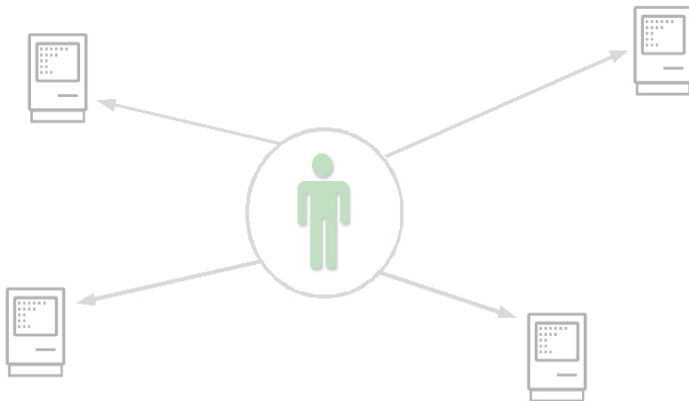
# User centric

use the identity to put the user in control



# Requirements

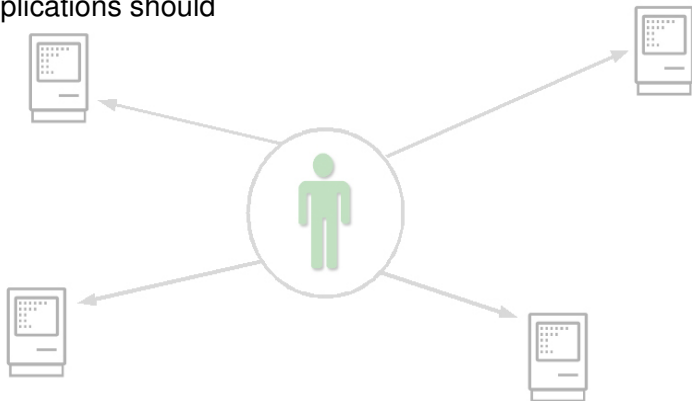
to follow the traced path



# Requirements

to follow the traced path

*Our applications should*

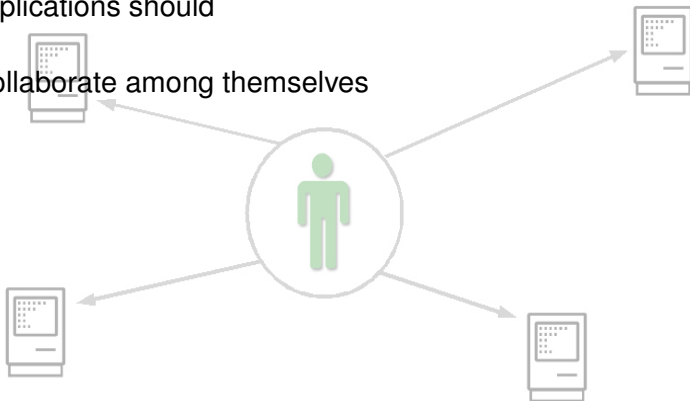


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*Our applications should*

- Collaborate among themselves

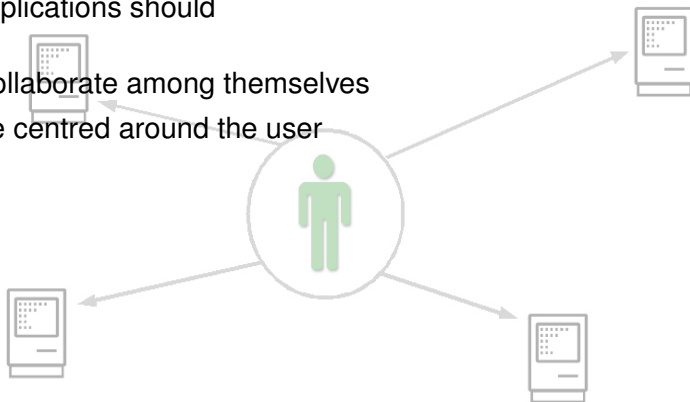


# Requirements

to follow the traced path

*Our applications should*

- Collaborate among themselves
- Be centred around the user

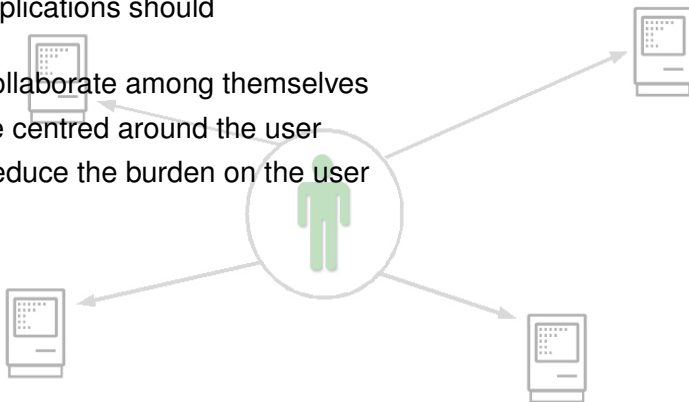


# Requirements

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*Our applications should*

- Collaborate among themselves
- Be centred around the user
- Reduce the burden on the user

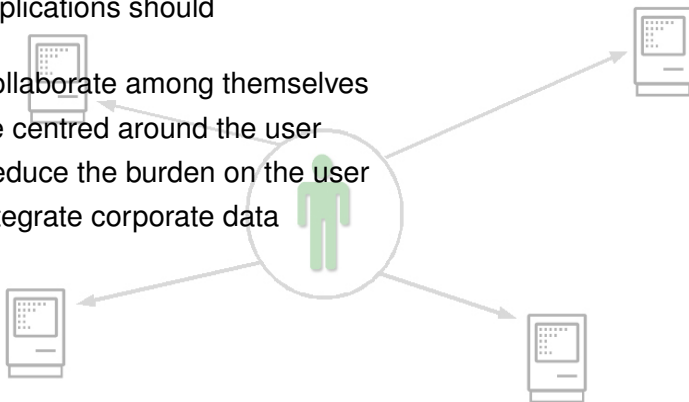


# Requirements

to follow the traced path

*Our applications should*

- Collaborate among themselves
- Be centred around the user
- Reduce the burden on the user
- Integrate corporate data

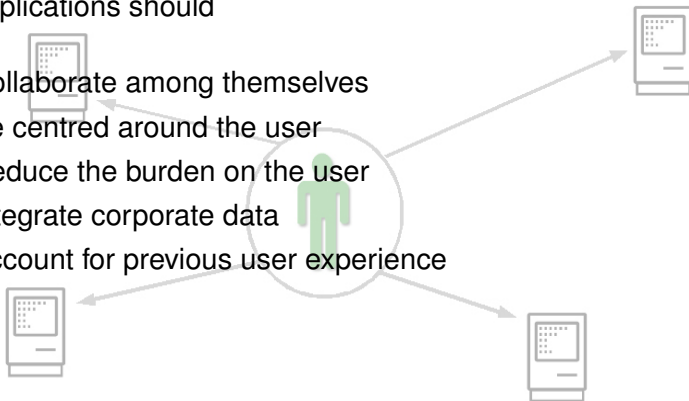


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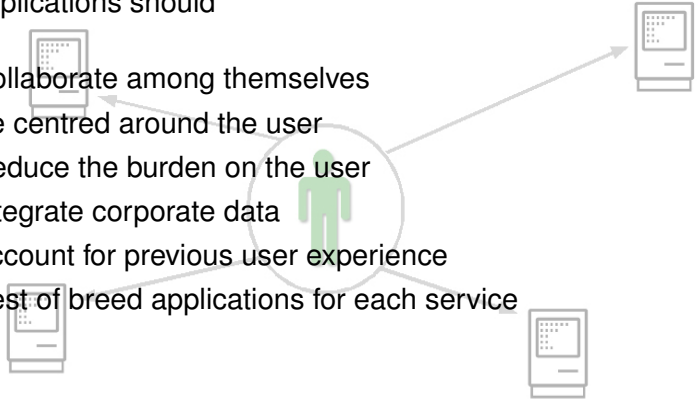
- Collaborate among themselves
- Be centred around the user
- Reduce the burden on the user
- Integrate corporate data
- Account for previous user experience



# Requirements

to follow the traced path

*Our applications should*

- Collaborate among themselves
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  - Account for previous user experience
  - Best of breed applications for each service
- 

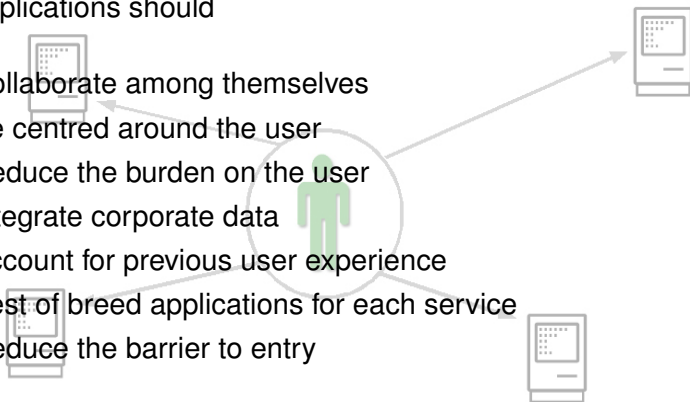


# Requirements

to follow the traced path

*Our applications should*

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- Integrate corporate data
- Account for previous user experience
- Best of breed applications for each service
- Reduce the barrier to entry



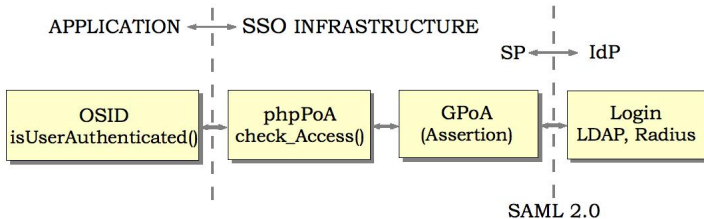
# Applications that play together

Centered around the user

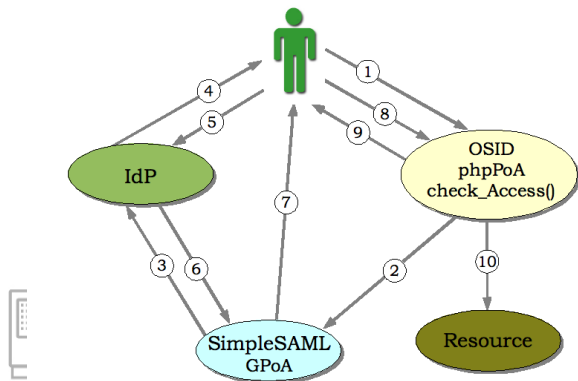


# Authentication architecture

mechanism independence

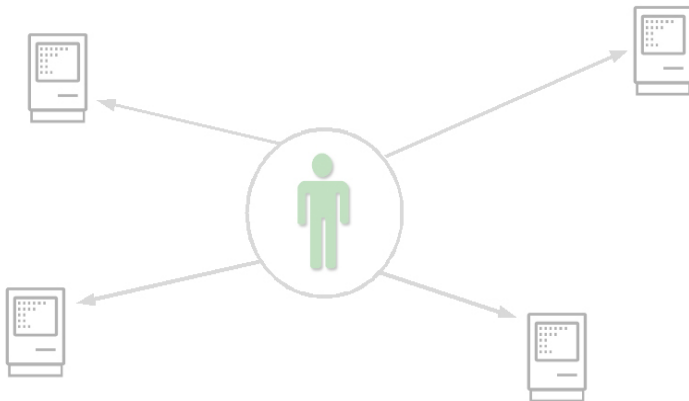


# Authentication process



# *The glue*

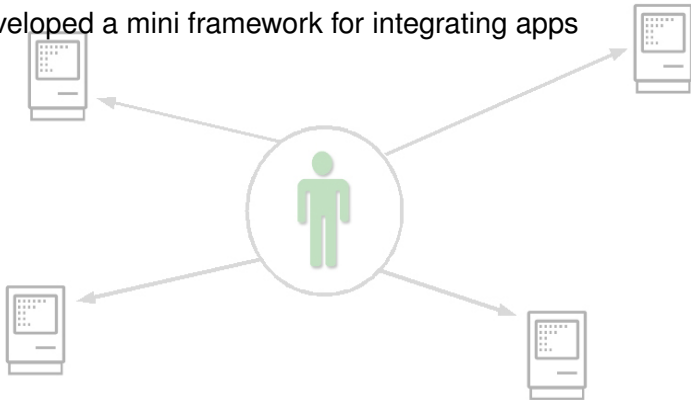
that holds pieces in place



# The glue

that holds pieces in place

We developed a mini framework for integrating apps

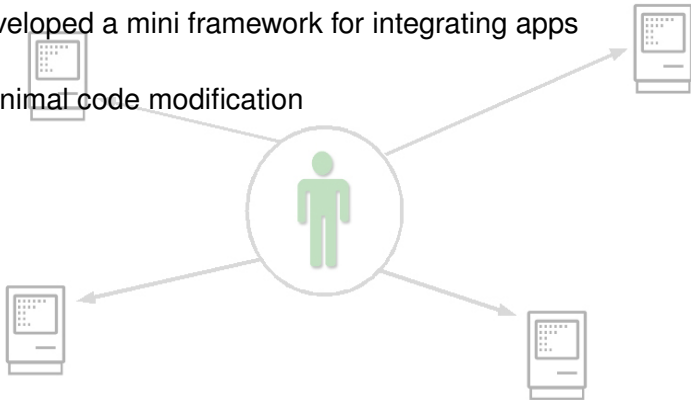


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- Minimal code modification

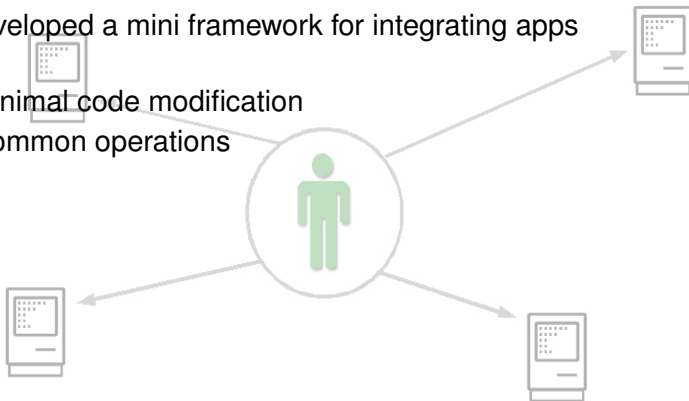


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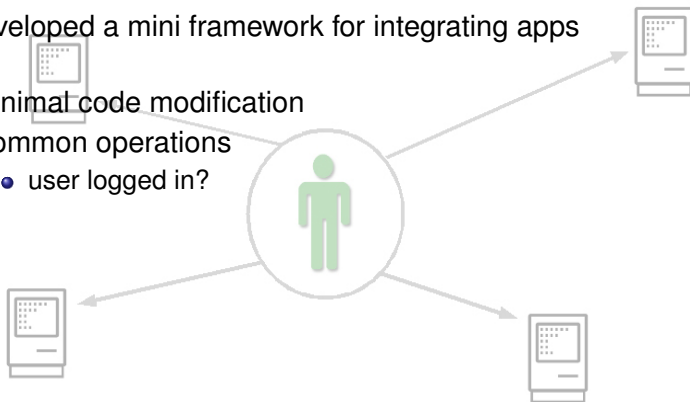


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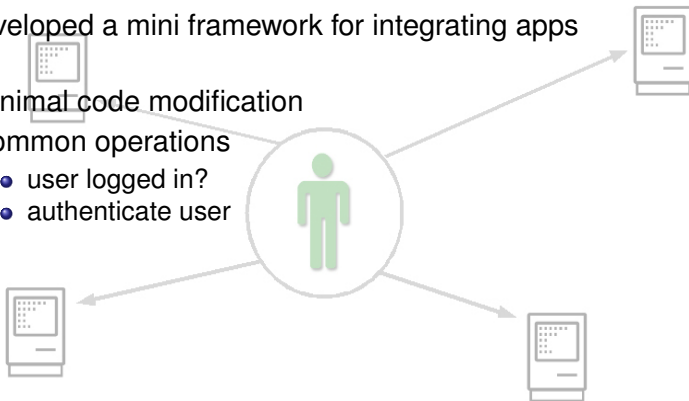


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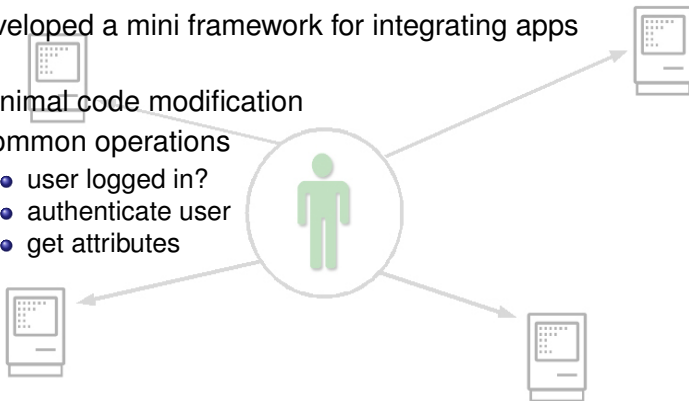


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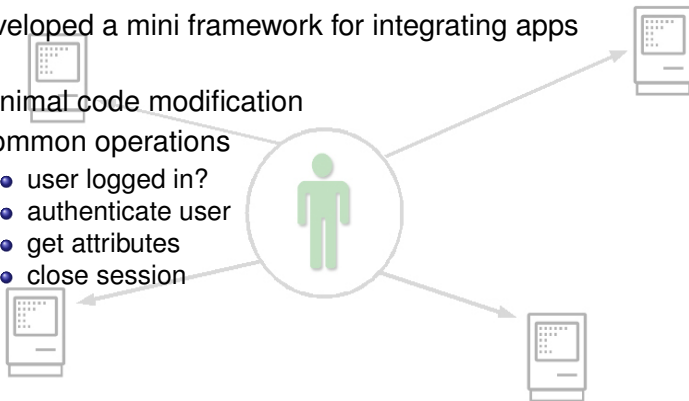


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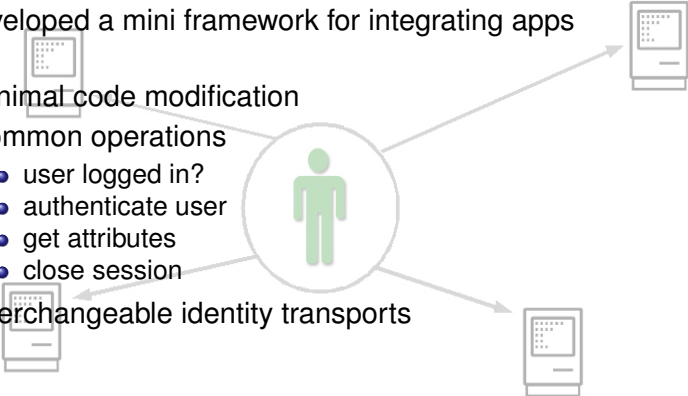
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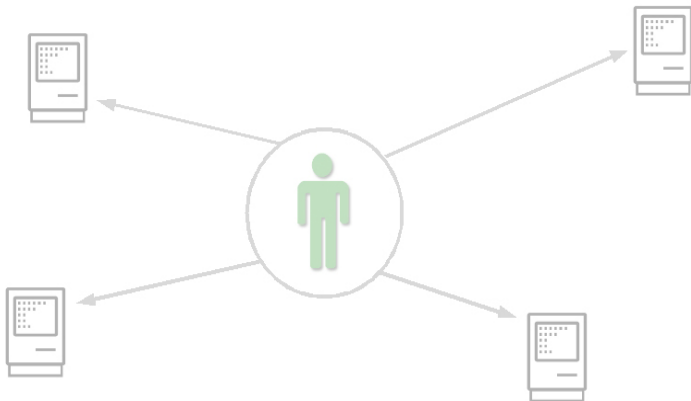
We developed a mini framework for integrating apps

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    - get attributes
    - close session
  - Interchangeable identity transports
- 



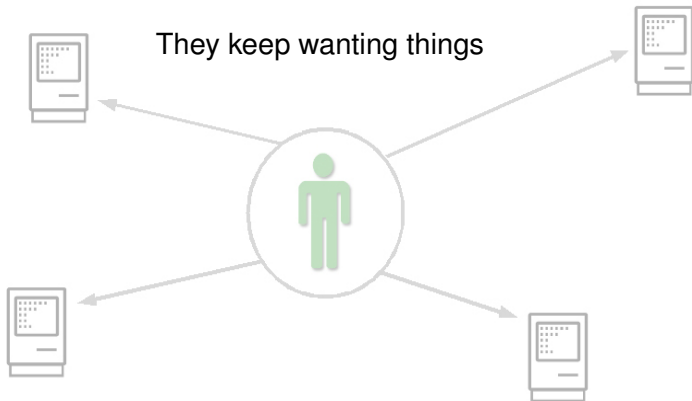
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Applications tend to have *attitude*



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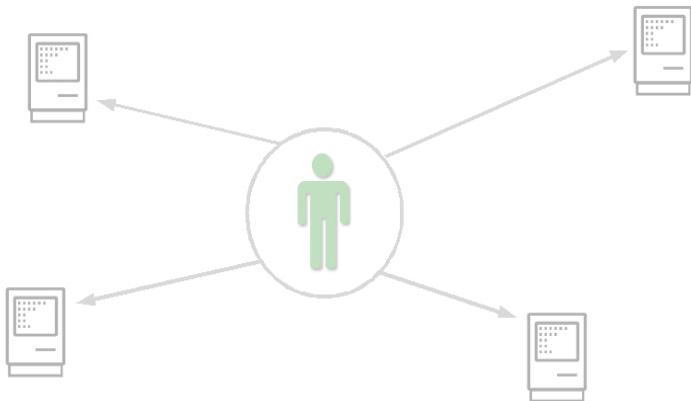
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# Issues

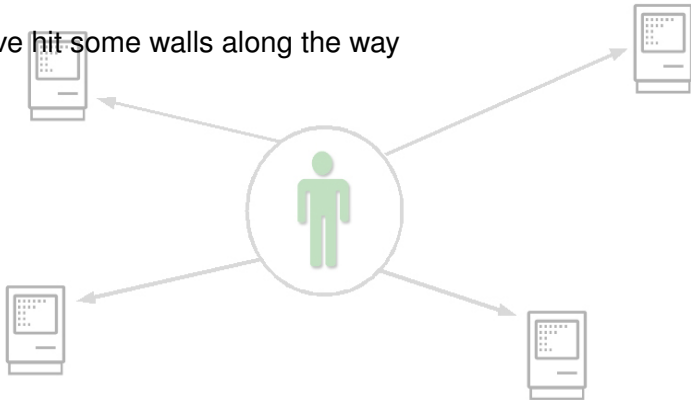
we have found in our quest



# Issues

we have found in our quest

We have hit some walls along the way

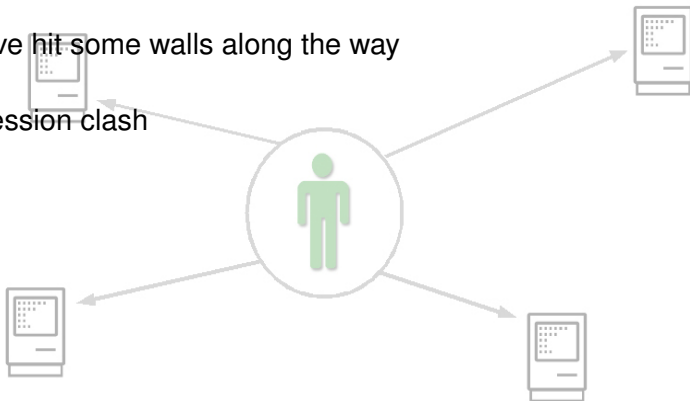


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- Session clash

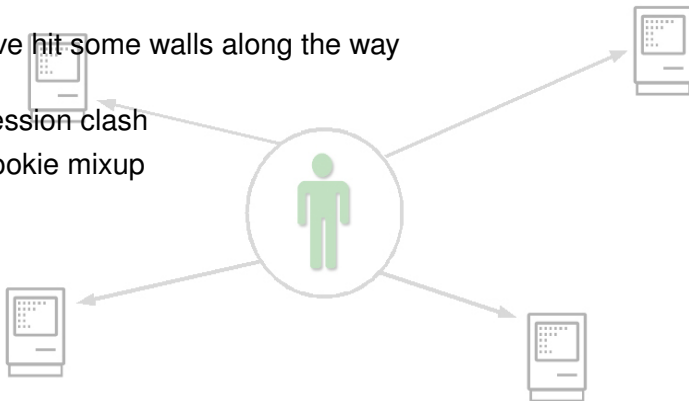


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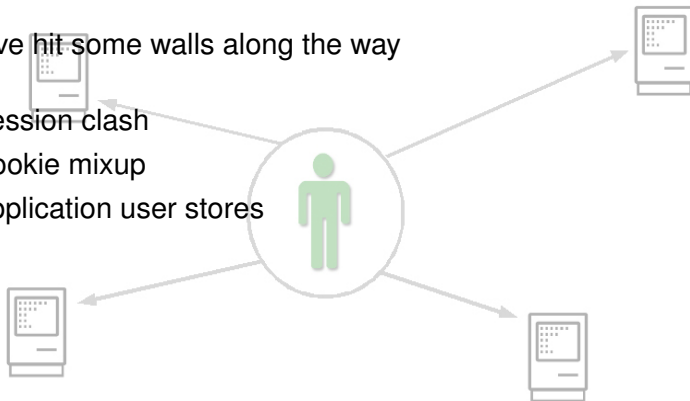


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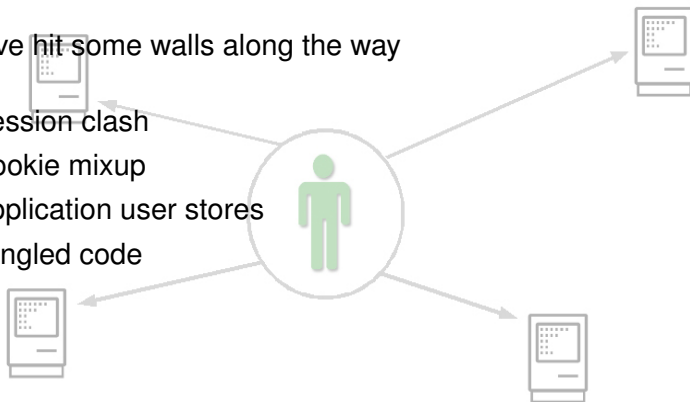


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to make our apps play together



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- Collaboration management:  
Virtual Environments → Collaborative Organizations



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We desperately need

- User decoupling
- External authorization
- Forget about provisioning
- Proper group management
- Collaboration management:  
Virtual Environments → Collaborative Organizations
- Logout that really works



# Ideas anyone?

Thank you

