

Form-u-LOA

First Ideas Presentation

LOAuth - Security Group

9 March 2009



Introduction to our groups

What we think

Our group has to deal with

- Account managing
- Form filling protection

But...

Let' talk about them!



How to do this - Account Managing 1

Two class of users

Users of Form-u-LOA can be divided into two groups

- Form Creators
- Form Fillers

Different users, different needs

In our vision, the users have very different needs:

- Form Creators need to
 - Create, edit, delete forms: have access to workflow editor
 - Analyze data inserted into his forms
 - Manage his account, maybe including his friends list.
 - in other words: have a fully-featured account
- Form Fillers, instead
 - Have to sign in only to verify their identity
 - Should be able to not put all its personal data
 - in other words: could even not have an account

How to do this - Account Managing 2

User Login

- The idea is to not have a single, proprietary, account system
- Instead, the user can authenticate himself using external login services
- Using, if possible, particular features of the service, for example
 - Facebook friends
 - Messenger's contacts
 - Google's localization services (BAH)
- But we need to store some information even in our system
 - Form created
 - Data collected
 - Associate different account from different system to a single entity of Form-u-Loa
 - It **MUST** be done for Form Creators
 - Simple Form Fillers could not be saved in our system

How to do this - Account Managing 3

Our proposal

- Keep account information only for form creator users
- Use ONLY external services to authenticate
- Let the user unify different account from different services

Extensible Service list

- Define a common interface to authenticate
- Allow application administrator's to specify new account services
- Define a number of default services, some examples:
 - Facebook users (using Facebook Connect)
 - Windows Live users (using live framework?)
 - Google and Yahoo users (using OAuth or proprietary libraries)
 - Skype users (simple yet working HTTP post and HTML parsing)
 - CLI users (Don't know how)
 - «Put your favorite service here»

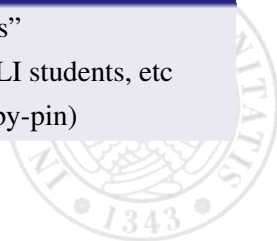
How to do this - Form Filling Protection

Our proposal

- Usually everyone can fill a form, but
- The creator can define a form as “private”
- A private form can be filled only by users selected by the creator

Selecting Criteria

- Specific users, selected from creator’s “friends”
- Specific groups, i.e.: all facebook users, all CLI students, etc
- Only users selected by email address (verify-by-pin)



How to do this - Integration and Open Questions

SQL Code Injecting and overall system security

Filling (or creating) forms may allow malicious users to compromise the system. Common example: SQL Code Injection.

Those problems are, in a certain way, “security related”.

But is it really our task?

Anti-Spam Filters

Sending form invitation emails introduce us to spam problems.

We need to limit the amount of outgoing emails.

Again, does this have to do with “Security group”?

