

EAA / WUO Integration

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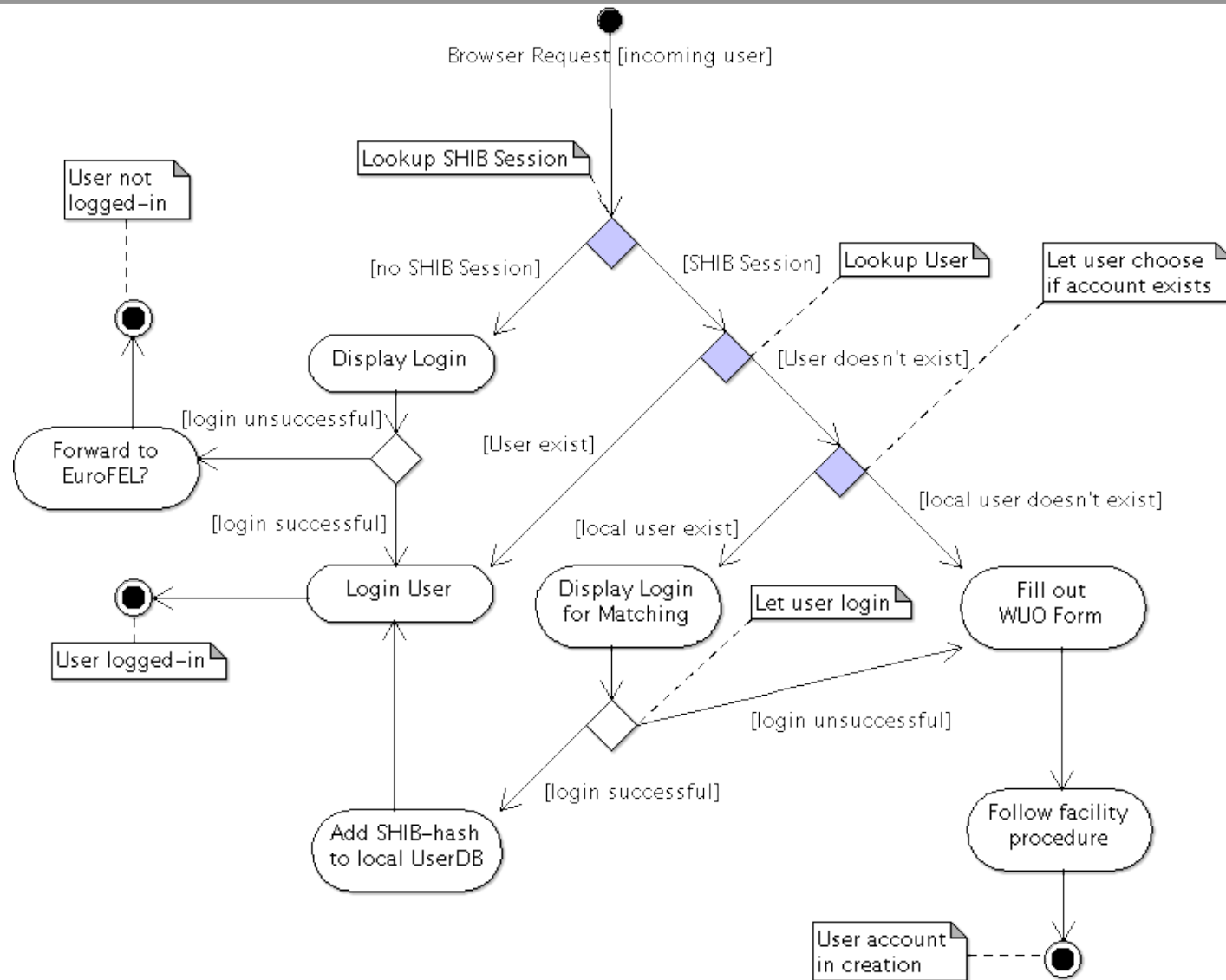
- A key feature of the EAA system is to uniquely identify a user EU-wide
- At the moment this is not possible, because all facilities have an own user database
- The goal is to identify the user just once and use this identity on subsequent visits to different facilities and still allow existing users who don't participate at EAA to use the WUOs (hybrid aspect)

- To virtually “travel” from facility to facility a Digital ID Card is issued and used to identify the user at a facility:

Digital ID Card	
uid	hans.meiser
email	6197d4e172af0c60b42b53d56206596d102392e9
EAAHash	c19fab6e-06db-41bb-9204-0b798a51da55
EABirthdate	c21235398168063f5d4444656665fae6cc9d3872

- To be able to participate at EAA a WUO must install a SAML2 Service Provider software, e.g. mod_shib2.
- To be able to use the WUO software without a EAA-Session we must use the passive authentication mechanism of SAML2.
- To enable the hybrid characteristics to authenticate against WUO and EAA a multi-phase check must be implemented at the WUO

Implementation Recipe



- Check if there is an existing EAA-Session active.
- If there is no valid EAA-Session, continue with normal application code.
- Else forward the user to the UserCheck

- Query the database for the incoming EAA-Hash.
- If there is a matching user, log him in.
- Else forward to User Matching.

- Let the user choose to match his EAA-Account with an existing WUO-Account.
- Let the user create a new account.

- To find out if the user has a EAA-Session, a passive login request to EAA is made.
- A cookie is set to prevent further authentication checks.
- Switch provided code to implement this.

- The User Check consists of an extension to the SQL SELECT statement which is used to query username and password.

SELECT USERNAME FROM USERS

WHERE

(USERNAME='user' AND PASSWORD='SHA1(changeit)')

OR

(EAAHASH='f5bba3c6-6240-4ccf-8048-13dbb3405192')

- User Matching is necessary if there is an incoming EAA-Session but no WUO user registered with it.
- Use existing “Login” and “Create User” procedures.
- If the use already has an existing account at the WUO, then a WUO login must be performed and the USERS table is updated:

UPDATE USERS SET

EAAHASH='f5bba3c6-6240-4ccf-8048-13dbb3405192'

WHERE USERID='foundID'

- If the user has no existing account an account must be created and matched to the EAA-Account

INSERT INTO USERS

(NAME,...,EAAHASH)

VALUES

('Muster',..., 'f5bba3c6-6240-4ccf-8048-13dbb3405192')

Thank You

Thank you for your attention!

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