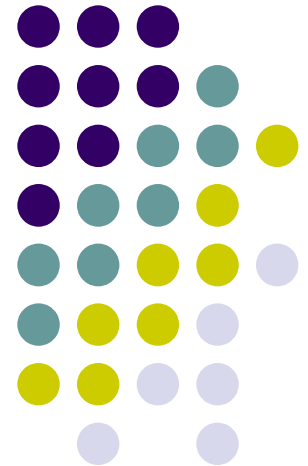


# Travaux d'Etudes et Recherche: Genie Logiciel

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**Elements de Conception :  
Authentification**

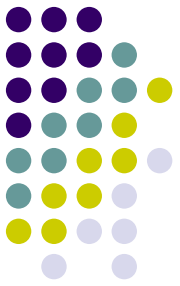


# About: Authentication



- Idea : Can we do Authentication inside an App via the official services of PSay
  - ADONIS  
<https://adonis.u-psud.fr/utilisateur/index.php>
  - Implementing LDAP and LDAP-S (restricted to intra-net)
  - CAS  
<https://sso.u-psud.fr/cas/login>

# System Development

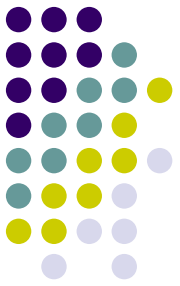


- Appeal the CAS Server:

A screenshot of a login form titled "Enter Username & Password". The form has a light beige background. At the top, there is a header with a user icon and the text "Enter Username & Password". Below this, there are two input fields: "Username:" with the value "burkhart.wolff@u-psud.fr" and "Password:" with a masked password ".....". A dark red "LOGIN" button is positioned below the password field. At the bottom, there is a link "Forgot your password?" with a question mark icon, and a security notice: "For security reasons, please log out and exit your web browser when you are done accessing services t".

- ... after authentication:

# System Development



- ... after authentication (and one more click:):

universit  PARIS-SACLAY Central Authentication

**Log In Successful**

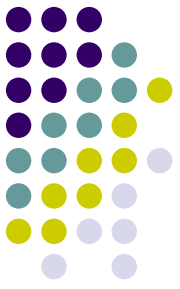
You, Burkhart.Wolff@universite-paris-saclay.fr, have successfully logged into the Central Authentication Service. However, you are seeing this page because CAS does not know about your target destination and how to get you there. Examine the authentication request again and make sure a target service/application that is authorized and registered with CAS is specified.

[Cliquez ici](#) pour afficher les attributs r cup r s depuis l'annuaire pour votre compte Burkhart.Wolff@universite-paris-saclay.fr.

When you are finished, for security reasons, please **log out** and exit your web browser.

Attribute	Value(s)	Type
cn	[Wolff Burkhart]	Principal
departmentNumber	[933, 92, 2211, 2359, 2357, 2217, 3201, 2289, 2208, 6923, 6920, 6924, 11150, 11148, 12202]	Principal
displayName	[Burkhart Wolff]	Principal
eduPersonAffiliation	[teacher, employee, faculty, member, researcher]	Principal
eduPersonPrimaryAffiliation	[teacher]	Principal
eduPersonPrincipalName	[burkhart.wolff@u-psud.fr]	Principal

# Component LDAP JS



- Bibliotheque LDAP (une solution speciale)

ldapjs is a pure JavaScript, from-scratch framework for implementing LDAP clients and servers in Node.js. It is intended for developers used to interacting with HTTP services in node and restify.

<http://ldapjs.org>

- Under LDAP JS one can authenticate via:

```
ldapsearch -x -D "uid=user_name_ecampus,ou=people,dc=u-psud,dc=fr" -w  
mot_de_passe_ecampus-H ldaps://ldaps.u-psud.fr -b "ou=people,dc=u-psud,dc=fr"  
-s one "uid=user_name_ecampus"
```

# Component CAS Access



- Paris-Saclay possesses A centralized authentication service, designed tp be contacted via Web-Servers.
- Principle: Authentication on the centralized authentication server (Ja-Sig CAS) creates a ticket. This can be reused by all the sites the user accesses (supporting this authentication mechanism) without having to re-enter their identifiers each time. The ticket contains a number of information related to this user.
- Link:  
[https://adonis.universite-paris-saclay.fr/aide/manuel\\_pdf/adonis\\_tech\\_SSO.pdf](https://adonis.universite-paris-saclay.fr/aide/manuel_pdf/adonis_tech_SSO.pdf)