	<b>Project ProxStat-Gestion</b>	Architecture technique Architecture applicative
Latest update : 10/01/2013	Spec Recherche Etude	Current doc version : 1.0

### Document présentation

<b>Description</b>	Ce document a pour objectif de décrire et expliquer l'architecture technique, applicative ainsi que le choix des technologies et frameworks pour le projet ProxStat-Gestion.
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### Document certification

	<i>Name</i>	<i>Fonction</i>	<i>Date livraison</i>
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### Document Version history

<i>Version</i>	<i>Date</i>	<i>Change Summary</i>	<i>Change Author</i>
1.0	10 / 01 / 2013	Initialisation du document	DJEBIEN Tarik

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#### Architecture technique

Typologie serveur requis

Nombre d'environnements avec schéma

OS

Protocoles de communication

#### Architecture applicative

Diagramme de package UML

Structure projet

Choix IDE

Déploiement

Gestion logs

Gestion cycle de vie projet

#### Architecture - technologies et frameworks

Langages sur les différentes couches


Choix frameworks

Proposition intégration frameworks

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## Architecture technique

### Typologie serveur requis

- Un serveur de Base de donnée avec un SGBD PostgreSQL 9.2
- Un serveur d'application Apache Tomcat v 7.0

### Nombre d'environnements

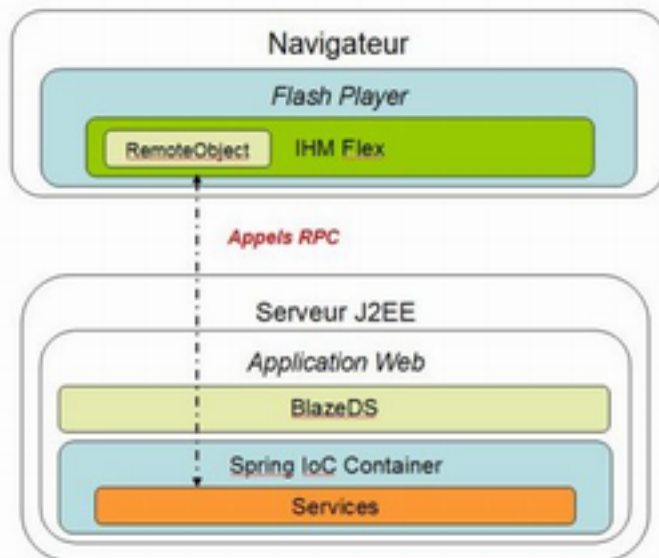
- Un environnements de développement en local
- Un environnement de production sur les serveurs de l'université

### OS

- Dekstop : Windows, Mac os X, Linux
- Browsers : IE, FireFox, Chrome, Safari
- Mobile Smartphone : Android >= 2.1, IOS >= X.X ??

### Protocoles de communication


- HTTP, REST?, SOAP?, RPC



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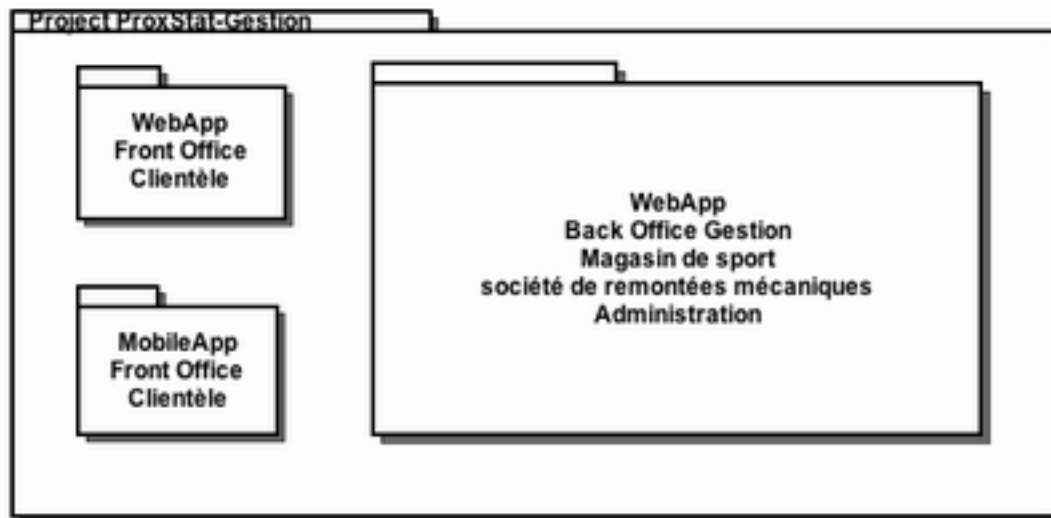
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## Architecture applicative

### Diagramme de package UML



### Structure projet


#### WebApp BO :

- com.proxstat.bo.model.services
- com.proxstat.bo.model.services.impl
- com.proxstat.bo.model.dao
- com.proxstat.bo.model.dao.impl
- com.proxstat.bo.model.domain
- com.proxstat.bo.model.dto
- com.proxstat.bo.util
- com.proxstat.bo.controller
- com.proxstat.bo.constants
- com.proxstat.bo.exception
- com.proxstat.bo.soa.ws
- com.proxstat.bo.soa.ws.impl

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#### WebApp FO :

- com.proxstat.fo.commands
- com.proxstat.fo.config
- com.proxstat.fo.mediators
- com.proxstat.fo.messages
- com.proxstat.fo.models
- com.proxstat.fo.views

#### MobileApp FO Android :

- com.proxstat.mobile.app.activities
- com.proxstat.mobile.app.customviews
- com.proxstat.mobile.app.adapters
- com.proxstat.mobile.app.parsers
- com.proxstat.mobile.app.utils
- com.proxstat.mobile.app.models
- com.proxstat.mobile.app.listener

MobileApp FO IOS : ???

## Choix IDE

- Eclipse JUNO
- Android Developer Tools Build: v21.0.1-543035
- Adobe Flash Builder 4.5
- XCode + Interface Builder

## Déploiement

- Jenkins ?


## Gestion logs

- Serveur JEE : Log4j
- Client Android : android.util.Log
- Client Web : trace()

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## Gestion cycle de vie projet

- Maven, JUnit, Selenium, Sonar

## Architecture - technologies et frameworks

### Langages et technologies sur les différentes applications

- WebApp BO
  - Serveur : Java EE version "1.6.0\_37"
  - Client : JSP + JSTL + HTML5 + AJAX
- WebApp FO
  - Client : MXML et ActionScript 3 OU Full JAVA OU HTML5 + SOAP/REST with JS
- MobileApp FO Android :
  - Client : Java SE + XML
- MobileApp FO IOS :
  - Client : Objective-C 2.0


### Choix frameworks

- WebApp BO
  - **Serveur :**
    - Spring 3 (IOC, Webservice, RPC, MVC, Security, AOP, Batch, Scheduler, mail)
    - JPA with Hibernate (Mapping ORM, très puissant et intégration avec Spring adapté)
  - **Client :** JQuery (simple, ajax et multi-browsers) + JQuery UI (composant + Animation)
- WebApp FO
  - Client : Flex 4.5 (multi-browsers et orienté service) + Parsley (IOC, SpringLike for Flex)  
OU GWT 2.5 (full java, multi-browsers, concurrent de Flex)
- MobileApp FO Android :
  - Client : rien pas de fwk (Spring Android existe mais selon moi c'est trop lourd)
- MobileApp FO IOS :
  - Client : Cocoa Touch

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## Proposition intégration frameworks

- Tout au début car cela sera de plus en plus difficile avec le temps.

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