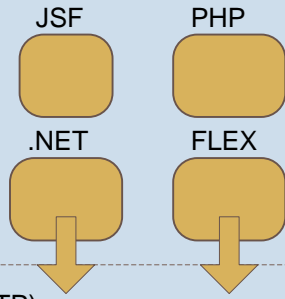
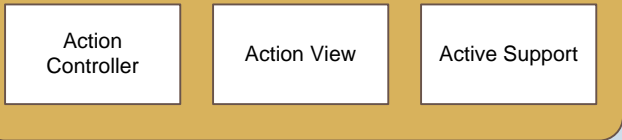


# BioPortal

## Jboss J2EE Server

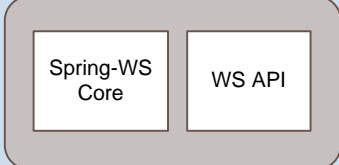
### Web Container

#### Ruby on Rails (default NCBO View)

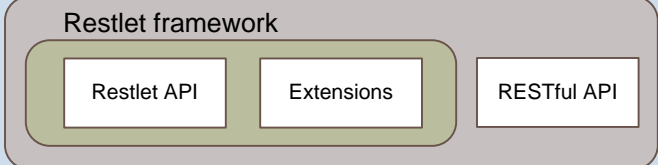


Presentation Tier

#### Web Services (SOAP)

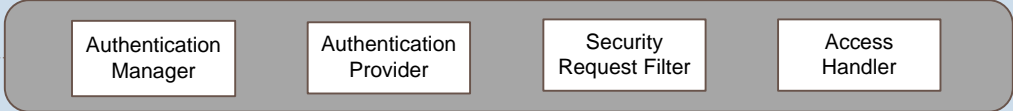


#### RESTful Services (HTTP)

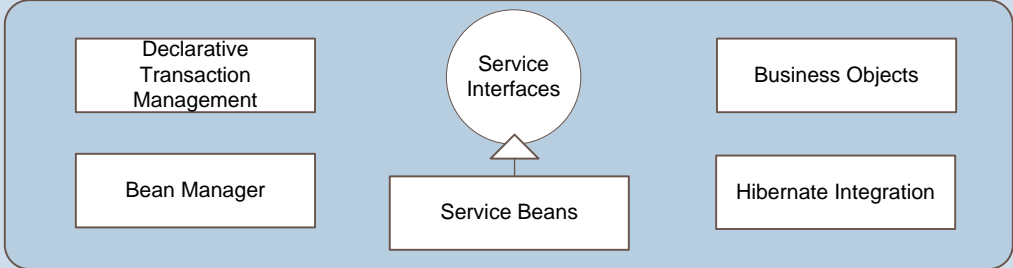


Interface Tier

#### Acegi Security Framework

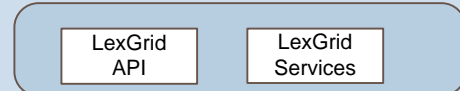


#### Spring Framework

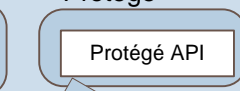


Business Logic Tier

#### LexGrid



#### Protege



#### Hibernate ORM



Persistence Tier

