



Multilingual Ontology Repository and User Interface

DE4A WP3 Semantics

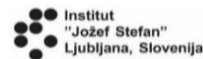
Ana Rosa Guzmán
Spanish Secretariat-General for Digital Administration
OOTS Implementer's Café (May 5, 2023)



Consortium



TIMELEX



*DE4A Coordinator

**Linked Third Party

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Melting pot of European languages and cultures: European Semantic Interoperability for the OOP

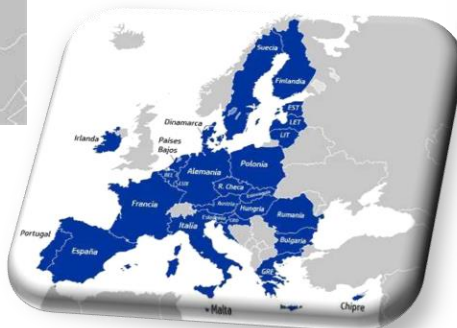
Amelie is French and wants to access a PhD programme in her country after completing an international Master's degree in Bulgaria. At the Master's and with her friends she spoke English, so she didn't learn Bulgarian...



Darius is Lithuanian and needs his birth certificate to get married. He was born in Portugal during his parents' short stay. He cannot speak or read Portuguese and knows very little English....



«Common dialogs with the user for the OOP»

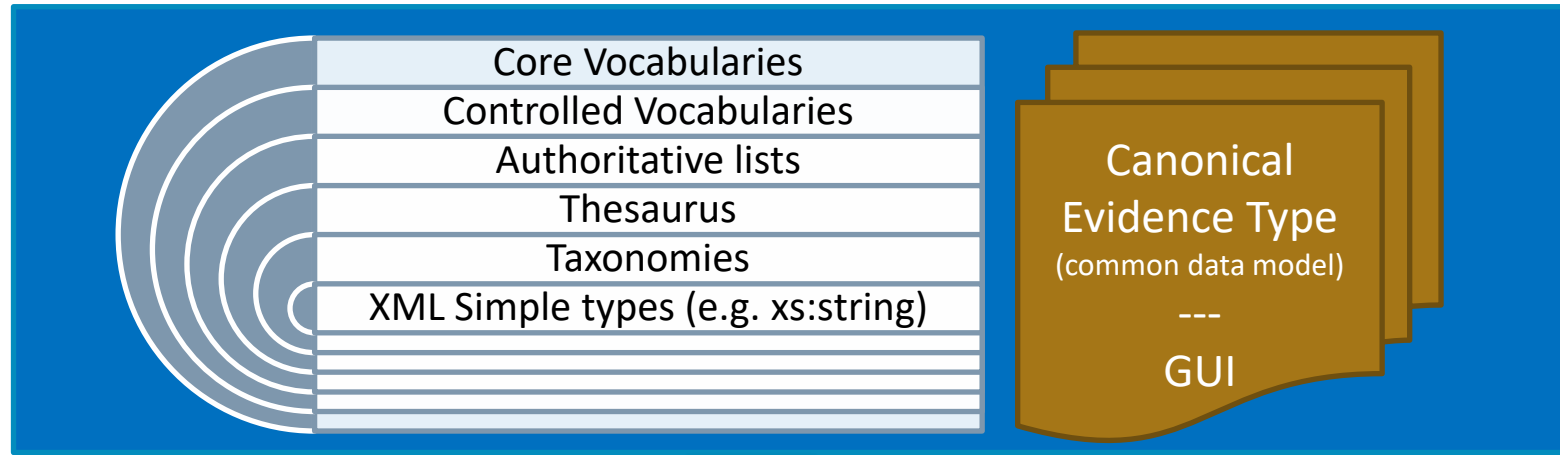


Explicit Request

Additional Parameters

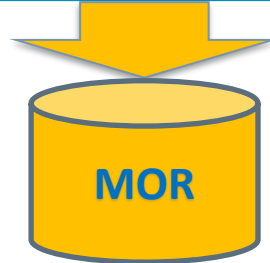
Preview Area

Semantic Design: Multilingual Ontology Repository



- Term URI
- Type
 - Inheritance
 - Overloading

Semantic Expert



- Cardinality
- Multilingual definition
 - Label
 - Description
 - Example



Domain Expert

i18n Recommendation

Term English definition

- Label
- Description
- Example



Automatic
Translation

Lang-specific

- Label
- Description
- Example
- Verified



Domain Expert
Verification

Lang-specific

- Label
- Description
- Example
- Verified

Term
(URI)

Light MOR Json-Like Storage

```
"Jurisdiction/Name" {  
  "type"      : "CountryEnum",  
  "cardinality" : "11",  
  "es" : {  
    "label"      : "Nombre",  
    "description" : "El nombre es una cadena simple que identifica una  
jurisdicción, normalmente un con o sin una etiqueta de idioma.",  
    "example"    : "ES",  
    "verified"   : true,  
  },  
  "sl" : {  
    "label"      : "Ime",  
    "description" : "Ime je preprosto niz, ki identificira jurisdikcijo;  
običajno država z ali brez jezikovne oznake.",  
    "verified"   : false,  
  },  
}
```

Simple XSD type or
another MOR Term

Mandatory and
multiple values

Verified translation

Automatic translation
not verified yet

Multiple
languages



MOR REUSABLE CLIENT-SIDE COMPONENTS

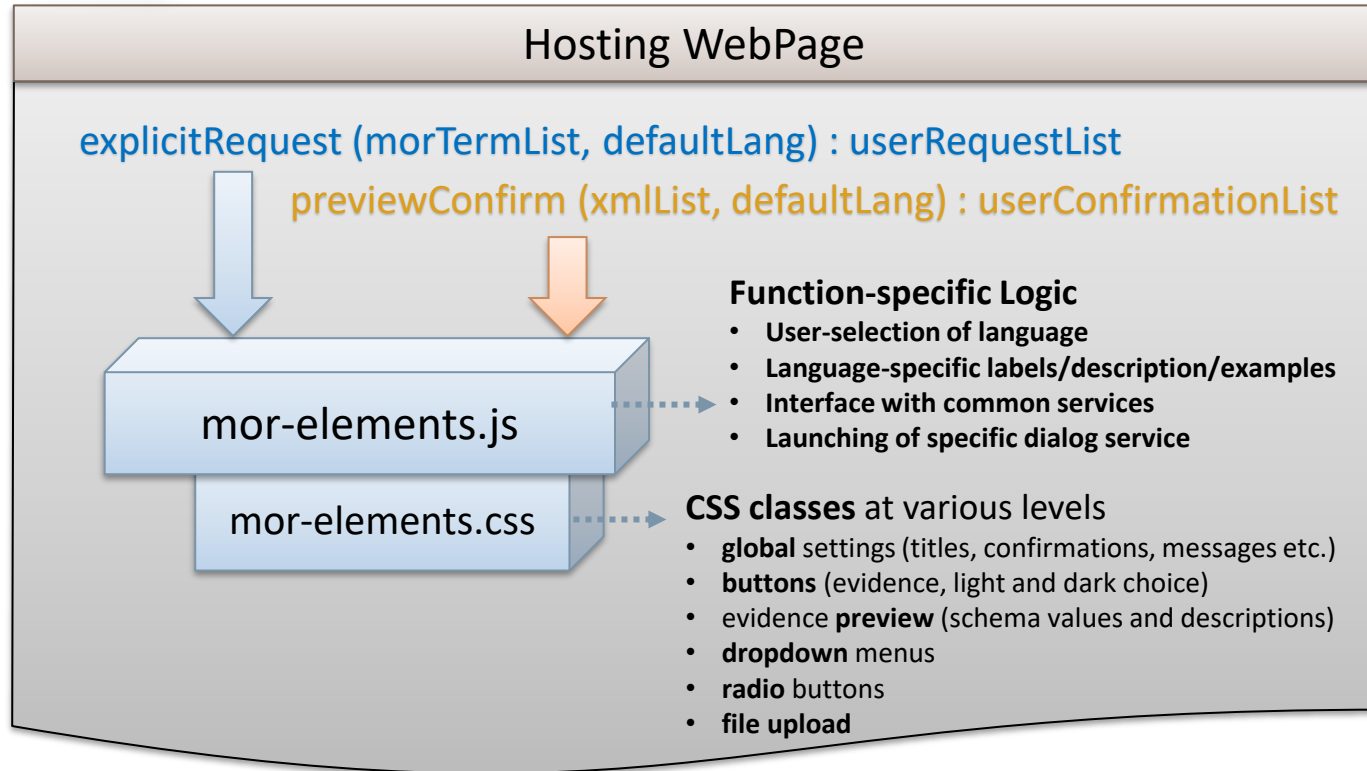


	 <p>Customizable and integrable dialog interface for users</p>
	 <p>Semantic Web component for existing pages</p>





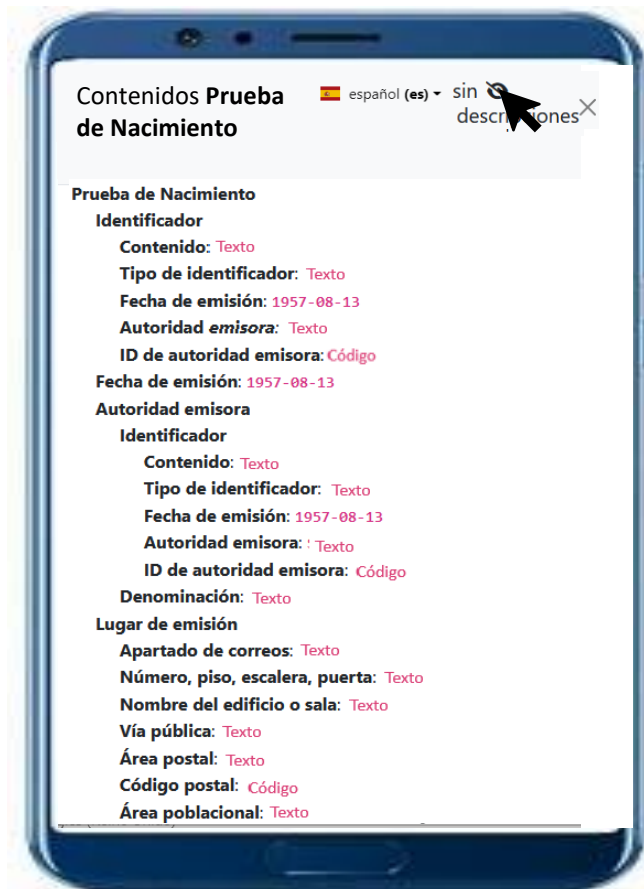
MOR client-side dialog web interface





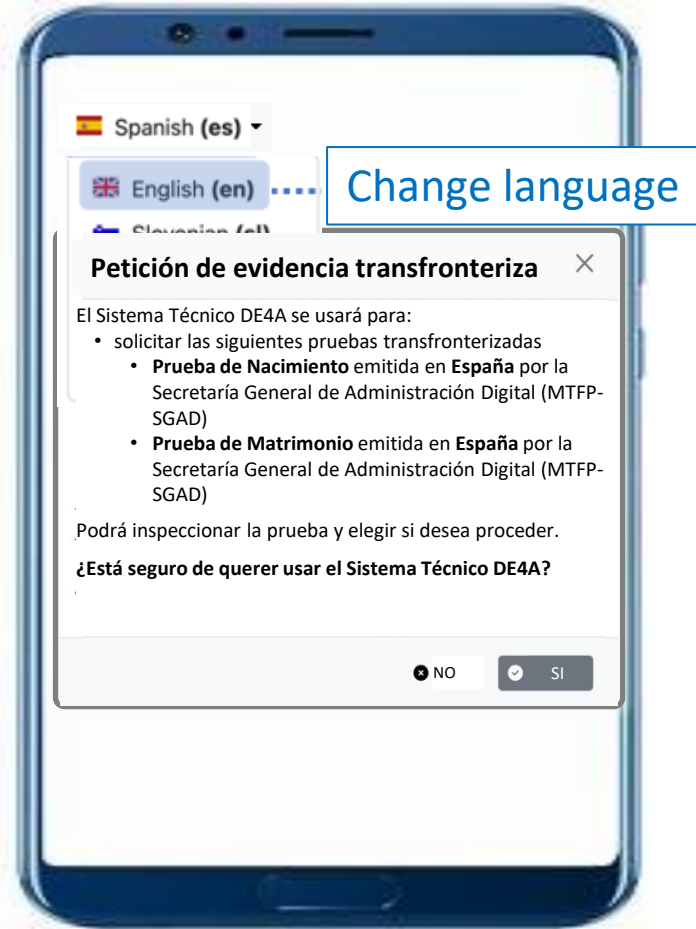
Explicit Request: select issuing authority

explicitRequest (morTermList, defaultLang) :
userRequestList



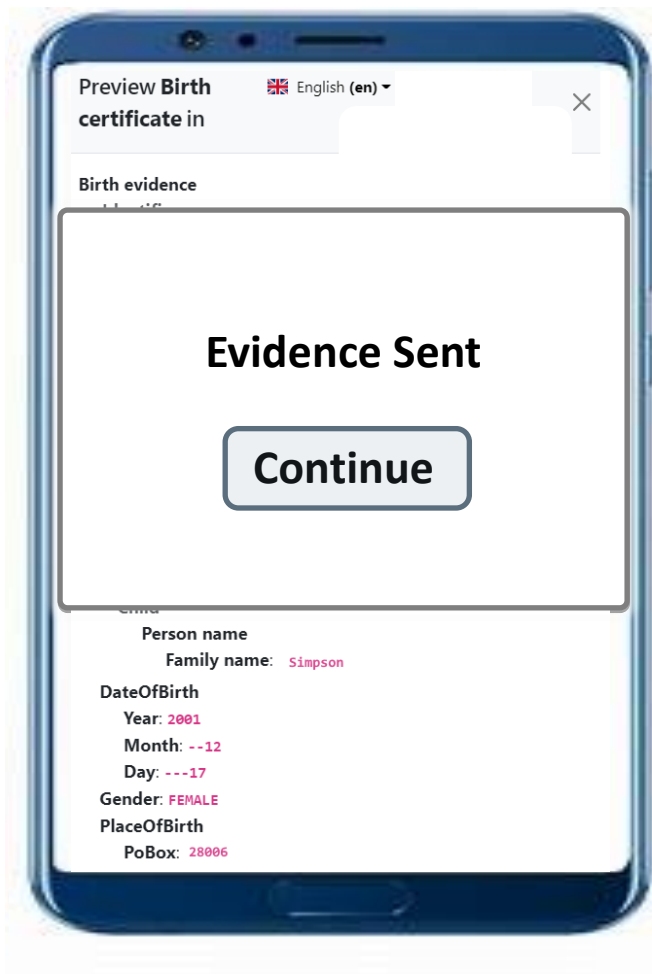
Explicit Request: informed request by showing the Information to request

explicitRequest (morTermList, defaultLang) :
userRequestList



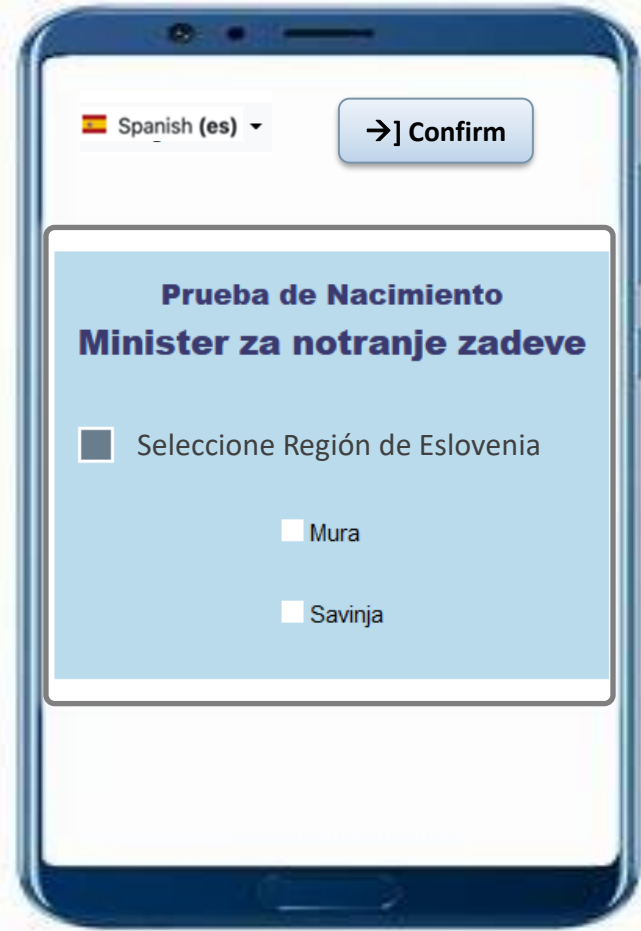
Explicit Request: informed request by user consent

explicitRequest (morTermList, defaultLang) :
userRequestList



Preview Area

previewConfirm (xmlList, defaultLang)
: userConfirmationList



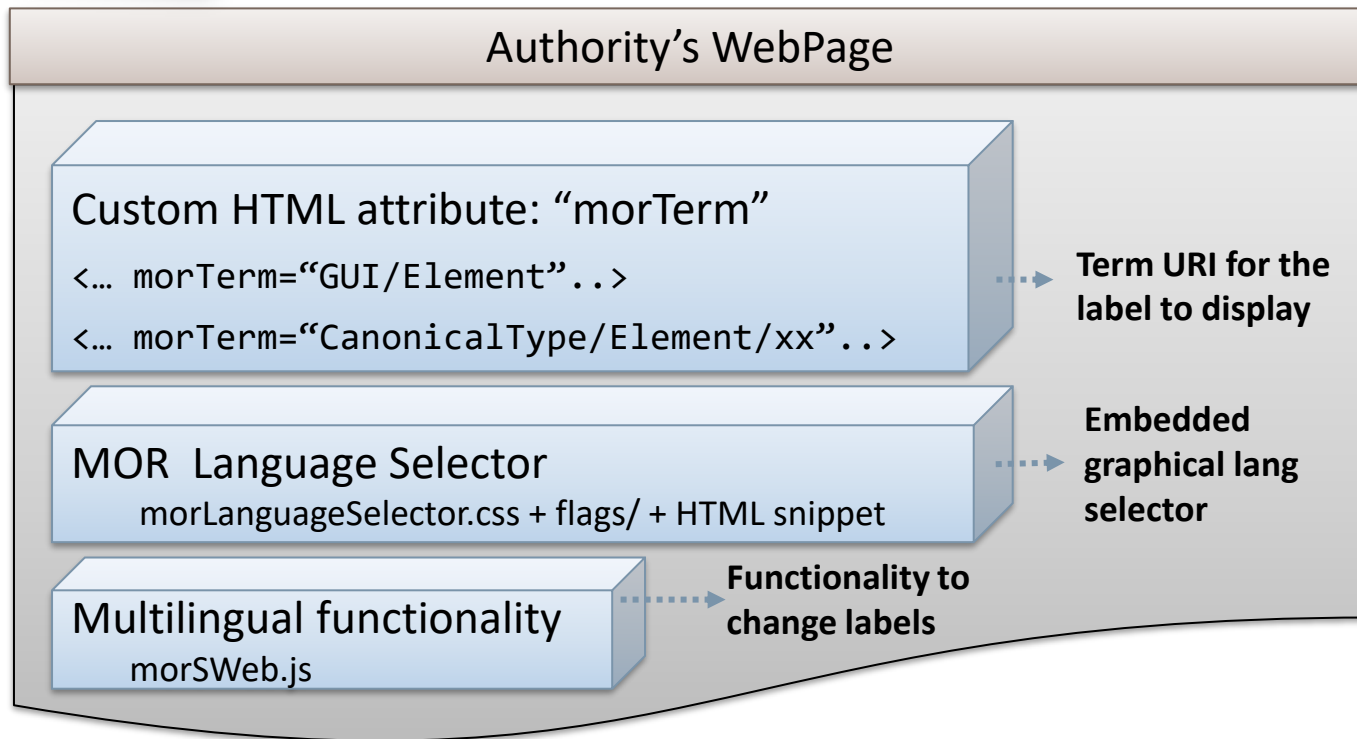
Additional Parameters

additionalPars (pars, defaultLang) :
userParValueList



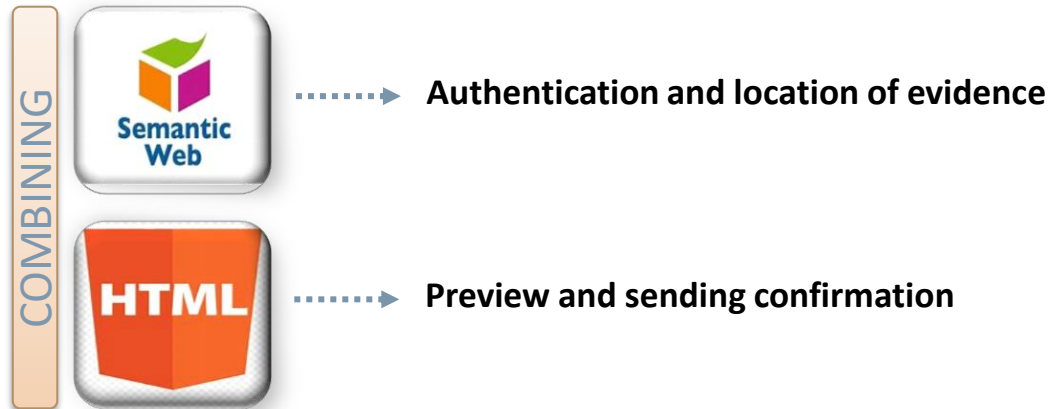


MOR Semantic Web component



MOR REUSABLE CLIENT-SIDE COMPONENTS

Preview Space





Thank You

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