ESIREM
ÉCOLE SUPÉRIEURE D'INGÉNIEURS
NUMÉRIQUE ET MATÉRIAUX

École associée Polytech

i3
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Developper on GeoTimeWFS project

4TH YEAR ENGINEERING INTERNSHIP ORAL PRESENTATION

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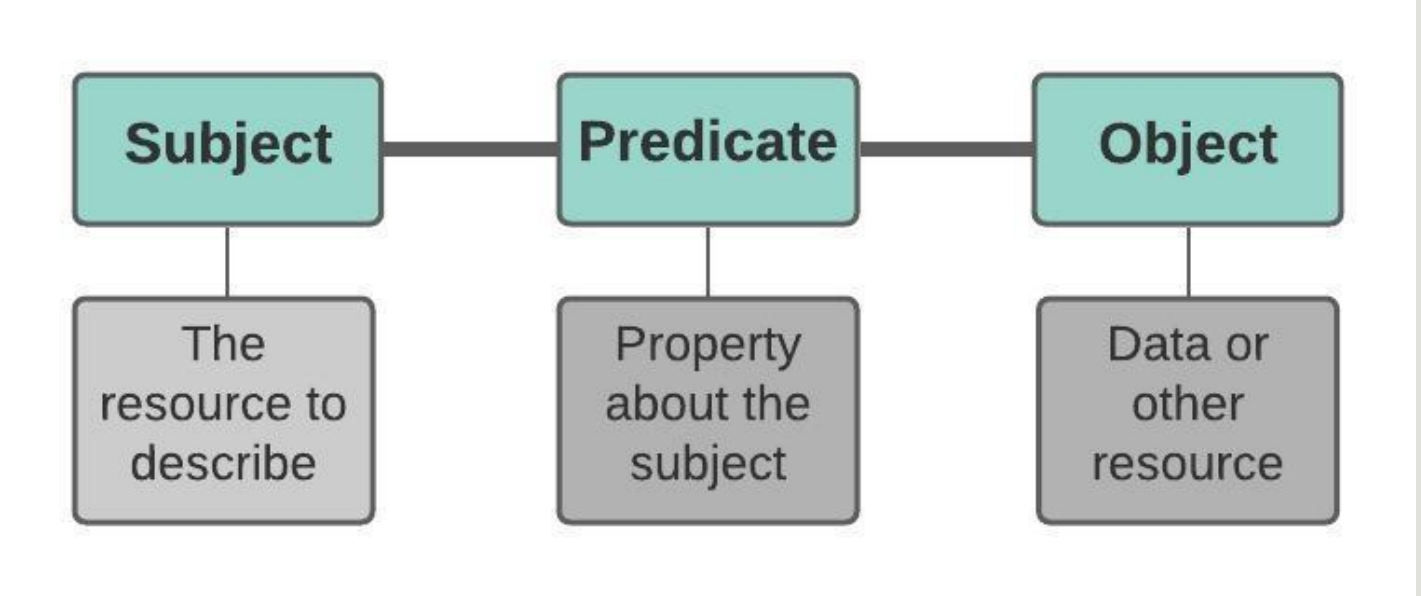
Global presentation

- Internship made in work team with Christopher BLARD
- Project managed by Claire PRUDHOMME and Jean-Jacques PONCIANO

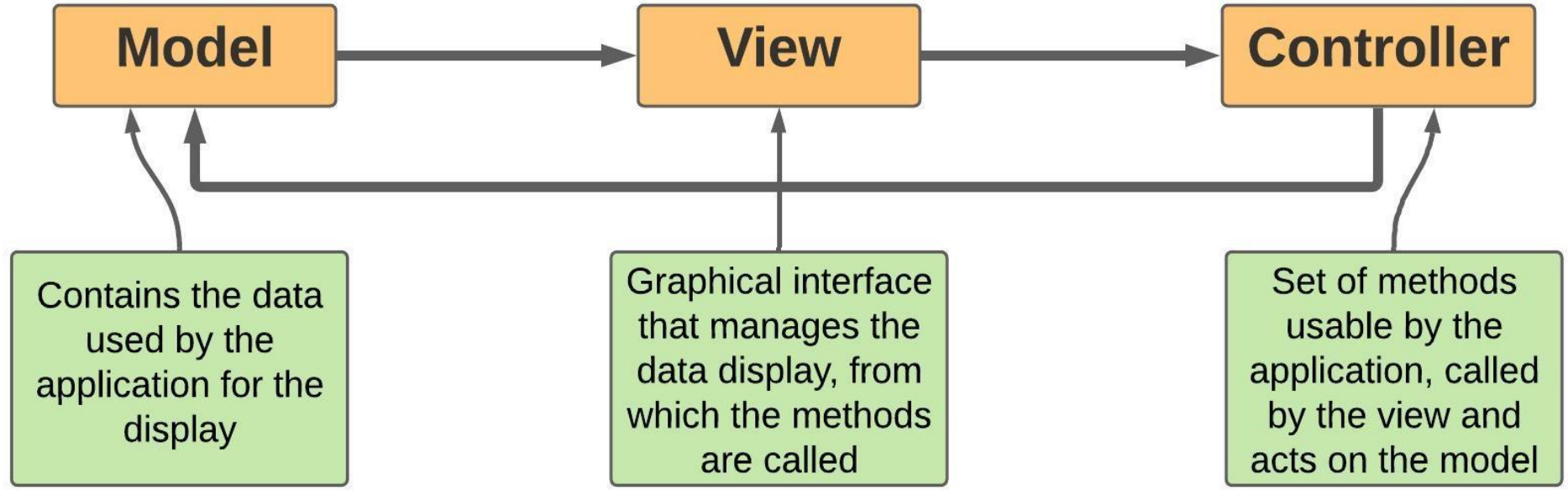
Details of the project

- Use semantic Web
- Expressed with the RDF langage
- Set up by the W3C organization
- The data is linked and can be used by several applications



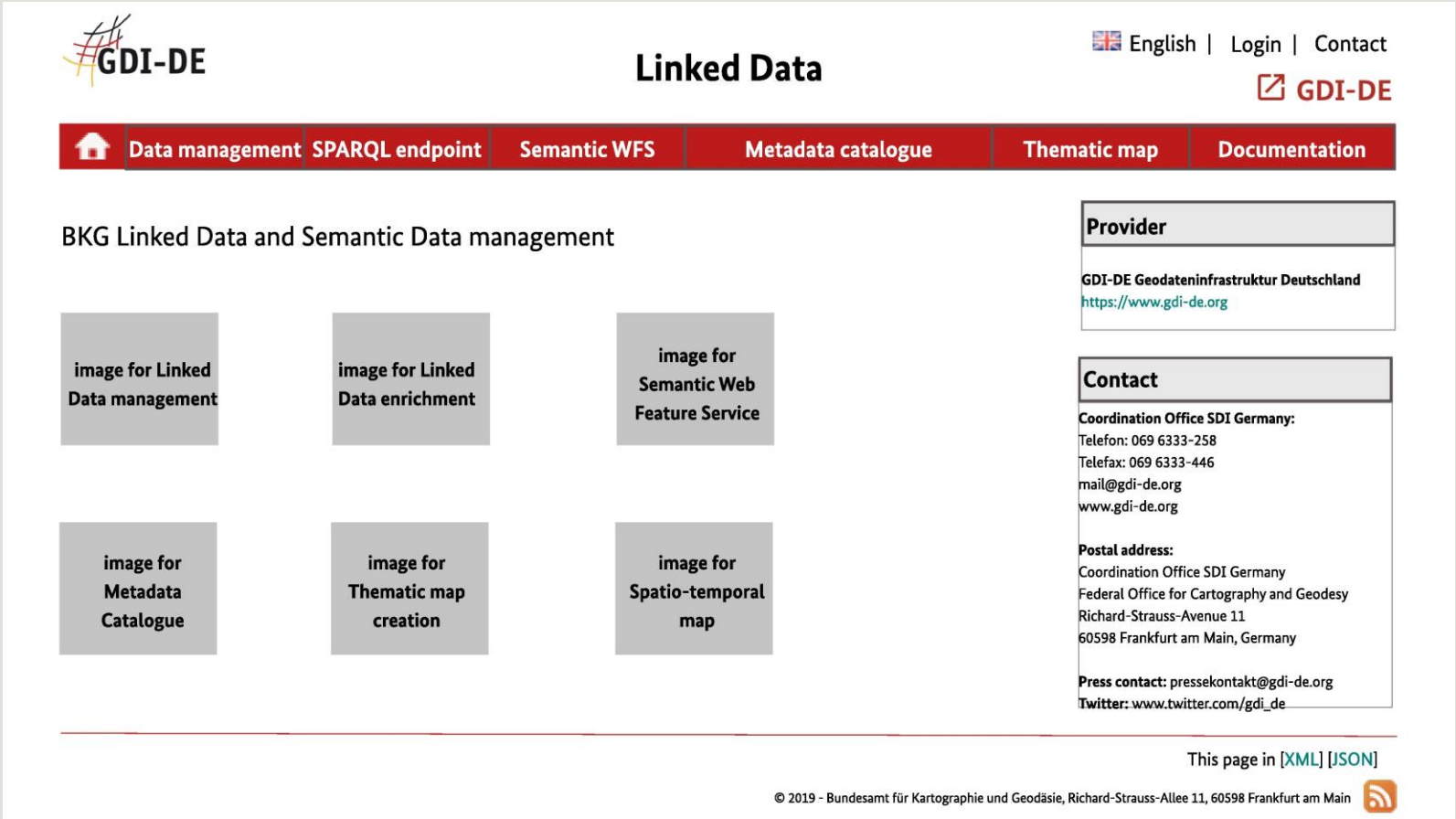
Architecture of the project

- Models and controllers are coded in Java and Views are coded in HTML
- Spring Boot permits to create application, based on request



Desired application

- Menus and submenus
- Views, each corresponding to a functionality
- Majority of the view already done
- Two more functionalities to add :
  - Thematic maps
  - Enrichment



Enrichment

- SPARQL langage for get web Semantic datas
- Ontology contains web semantic datas
- Wikidata : contains all Wikipedia data as RDF triplet
- SPARQL endpoint at https://query.wikidata.org/
- Enrichment : make the same SPARQL request on local ontology and on remote query services and show results

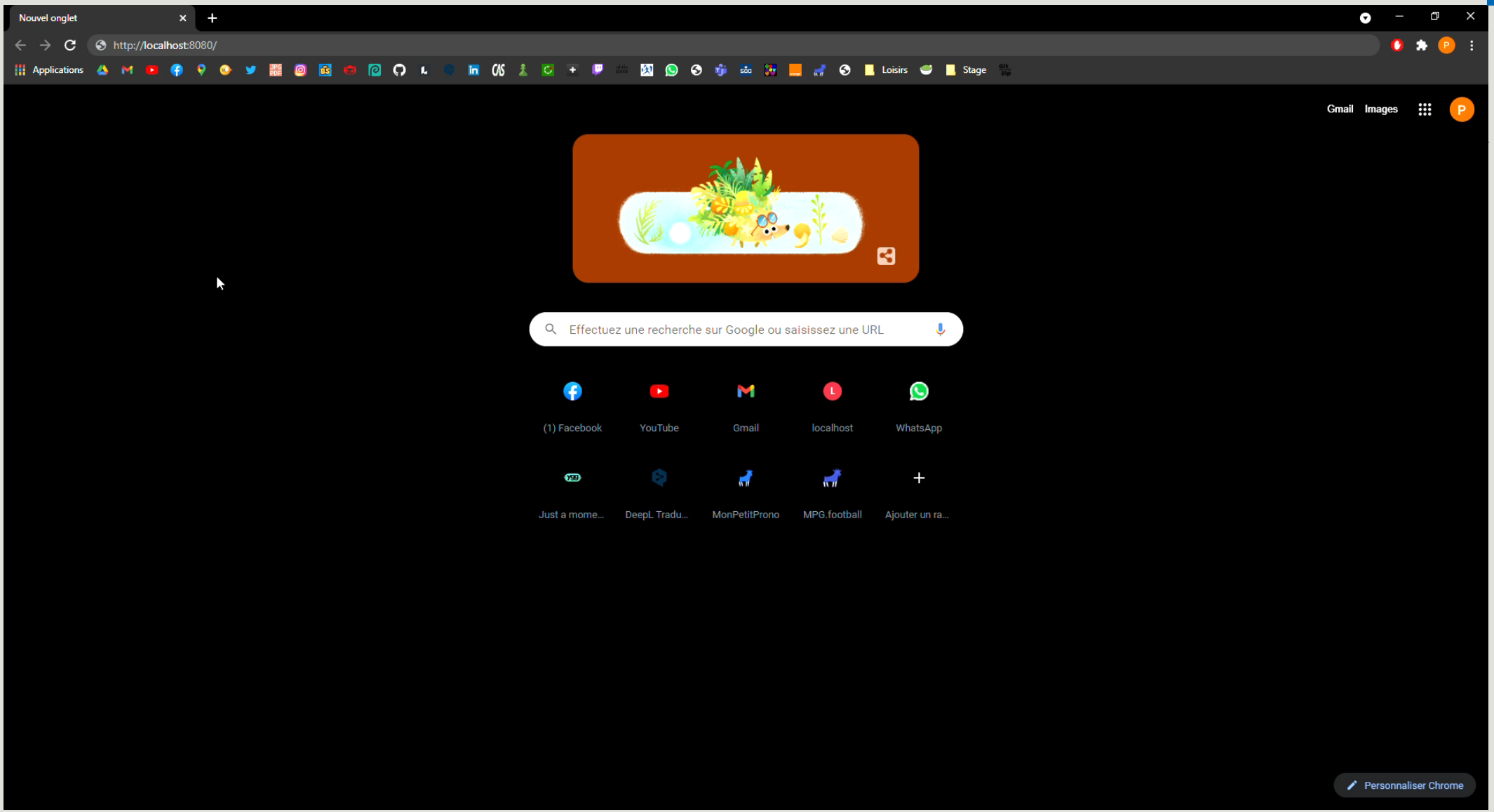
Work environnement

- Compilation with Eclipse > Execution of .jar with PowerShell > open in Web navigator at http://localhost:8080/

- Creation of a controller and views for functionnalities

- Use of the jena library of java which allows to use the SPARQL language

- View edition with Sublim Text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DeepL Tradu...
MonPetitProno
MPG.football
Ajouter un ra...
Personnaliser Chrome

Conclusion

Technical assessment

- Able to make local and remote SPARQL requests
- Link local and remote
- Style working (HTML, CSS)

Personal assessment

- Learning of new concepts (semantic web, MVC, …)
- Work in team with Christopher, meetings

Thank you for watching !