Université Nice Sophia Antipolis

La Liga Prediction

Semantic Web

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Agenda

- Introduction
- Background
- Analysis and design
- Implementation
- Testing and results
- Conclusion
- Demo
- Q&A

Introduction

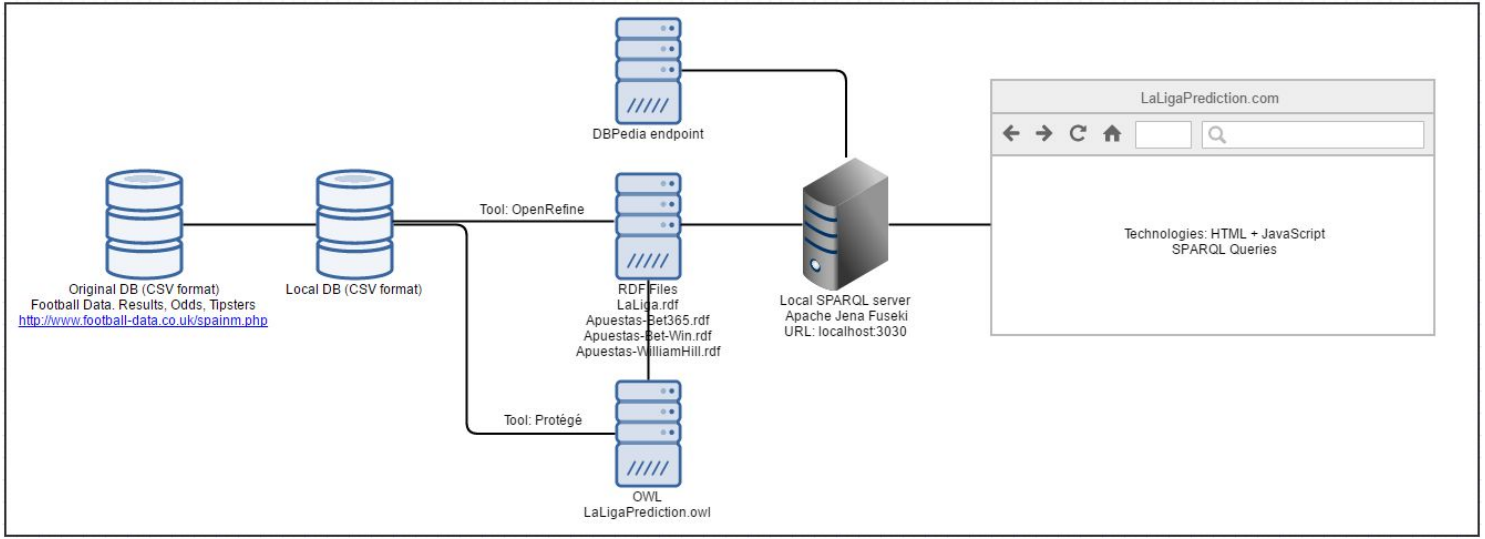
- Design choices
- Difficulties
- Novelty
- What we learned?

Background

- Related work
- Problem being solved
- Web 3.0
- External influences

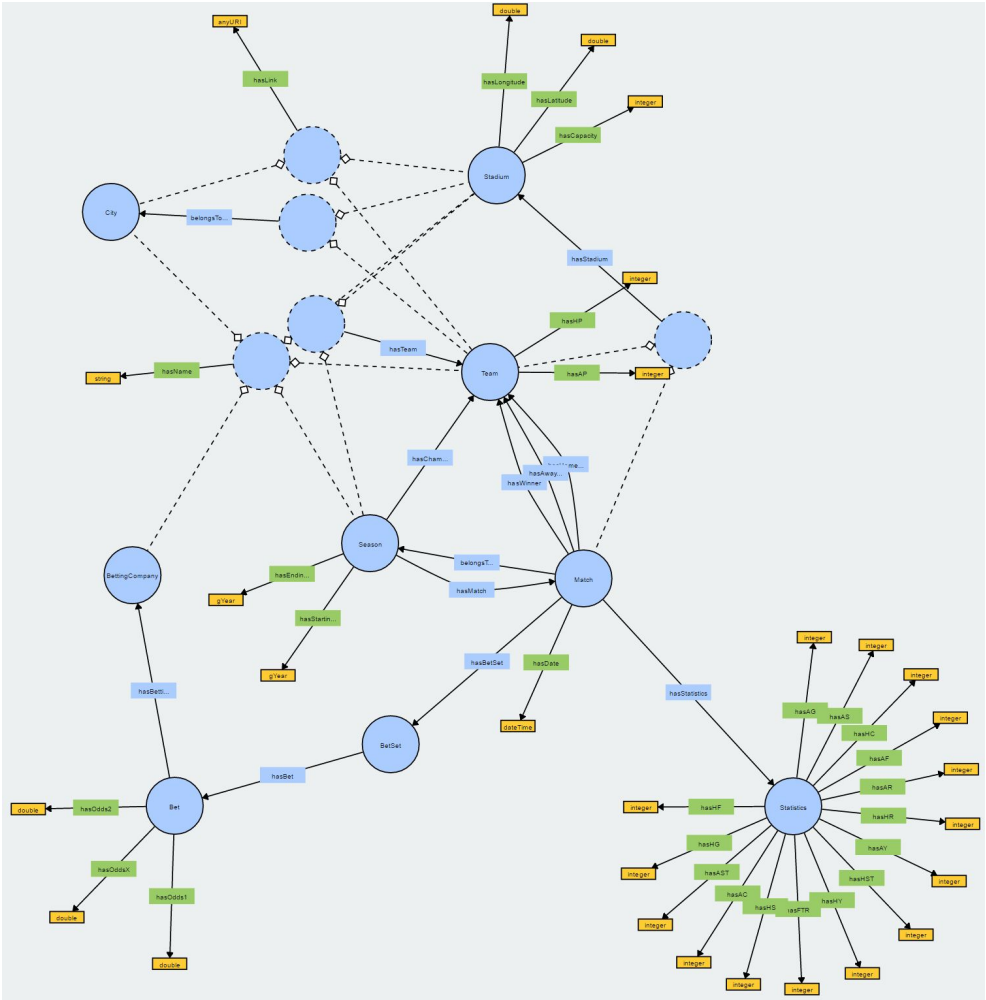
Analysis and Design

- Statistical Data (CSV -> RDF), DBPedia
- SPARQL Server
- HTML with JavaScript



Implementation

- CSV database (Football Data)
- Ontology OWL
- RDF files
- Algorithms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double
hasLongitude
double
hasLatitude
integer
hasCapacity
Stadium
City
belongsTo...
hasStadium
integer
hasHP
hasTeam
Team
hasAP
integer
string
hasName
hasCham...
hasAway...
hasWinner
Season
BettingCompany
hasEndin...
belongsT...
hasMatch
Match
gYear
hasStartin...
gYear
hasBetSet
hasDate
dateTime
hasStatistics
hasBetti...
BetSet
hasBet
Bet
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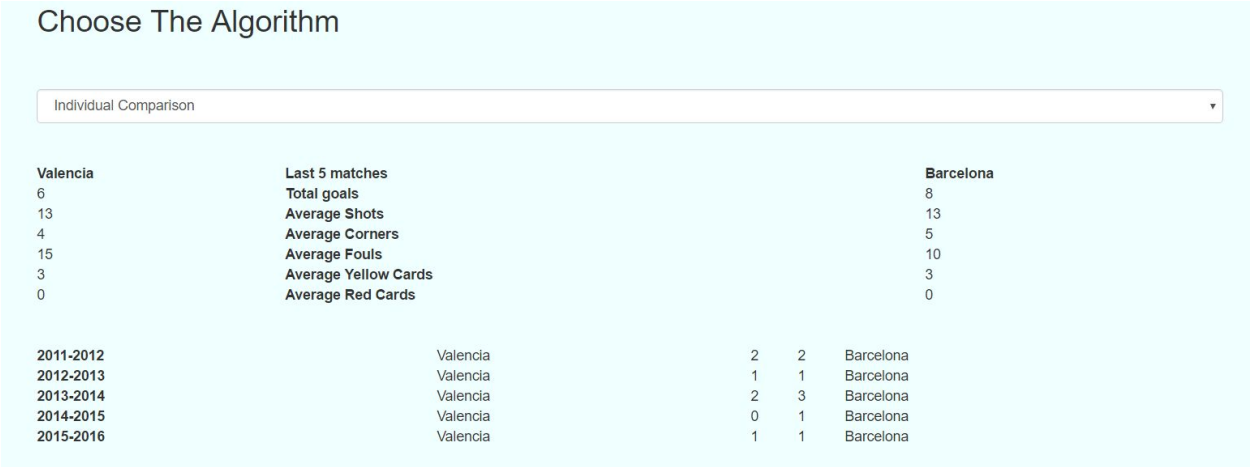
hasOddsX
hasOdds1
double
double
integer
integer
integer

Testing and results

- Individual Comparison
- Group Comparison
- Prediction
- Inferences



Choose The Algorithm

Individual Comparison

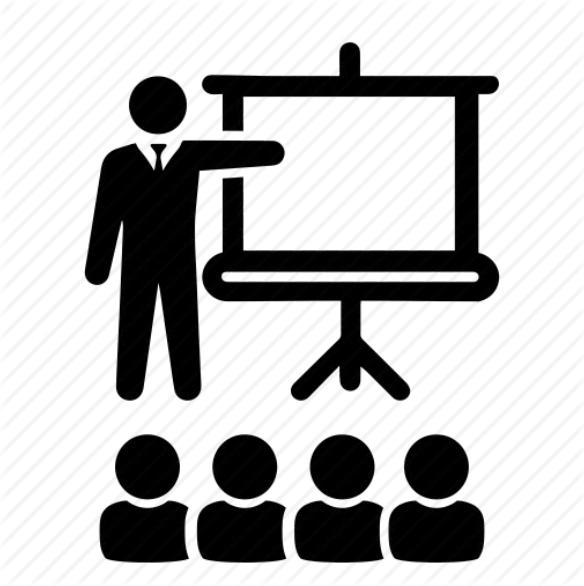
Valencia	Last 5 matches	Barcelona
6	Total goals	8
13	Average Shots	13
4	Average Corners	5
15	Average Fouls	10
3	Average Yellow Cards	3
0	Average Red Cards	0

2011-2012	Valencia	2	2	Barcelona
2012-2013	Valencia	1	1	Barcelona
2013-2014	Valencia	2	3	Barcelona
2014-2015	Valencia	0	1	Barcelona
2015-2016	Valencia	1	1	Barcelona

Conclusion

- Introducing online gambling to web 3.0
- Benefits of the semantic web
- Evaluation
- Next steps
  - Improve the prediction algorithm
  - Increase the ontology including more sports

Demo



QA

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