

Challenge: Interoperability

2.5G = EDGE (evolution)

2G → UMTS

IP_v4 → IP_v6
2002

~~"2002"~~ 2006!

2014

} only duplicate

handover

2G → 3G
new phone
7G → 2G

economists
300% 16 → 26 → 300

Semantics

OWL

Tripple Store

RDF

Protege —
4.x, 3.x

0 Data

— Semantic
MediaWiki,
Protege 3.x

Protege

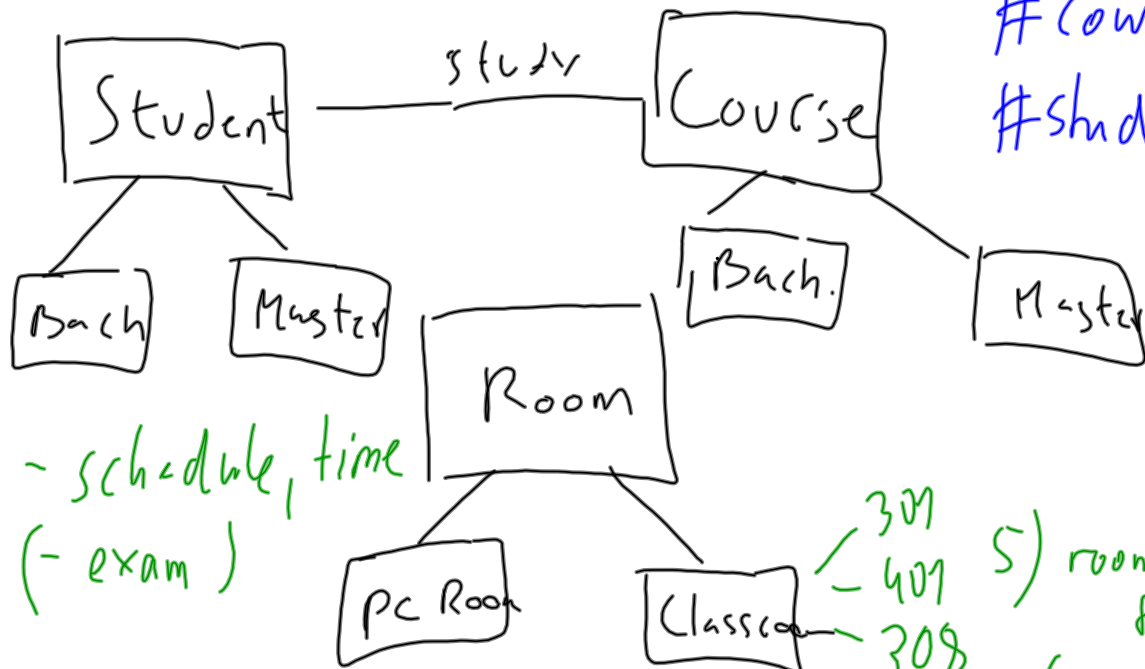
Classes

Properties / Object : reflexive
Instances / Data : type number
date

Restrictions

Verbal / "rules"

education capacity
rooms, courses



- 1) Students see their courses
- 2) Students have $> 1 \leq 5$ Courses
- 3) Students ins selected course
- 4) Which Courses are taught in selected room
- 5) Rooms need to have facilities needed for the courses

0 courses required to achieve a degree
remaining courses required
points/course

Difference Query $\longleftrightarrow$ ^{internal} Rule ^{external}

Query: "easy guess" $\Rightarrow$ list
rule-based query SQWRL

Rule: addl. information (trans. properties)
SWRL

Restrictions?

Semantic Access (Markin)

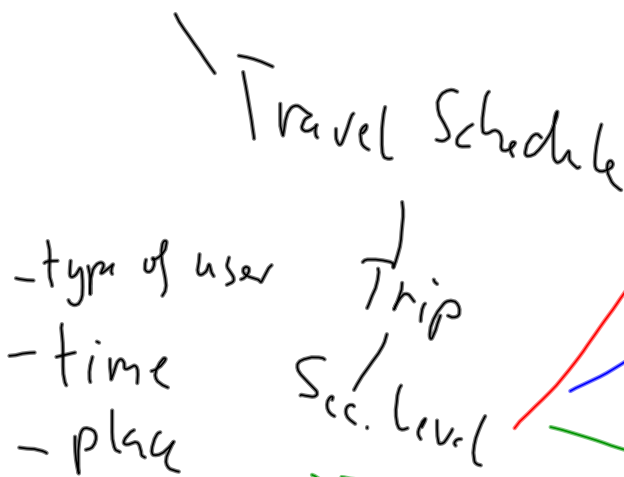
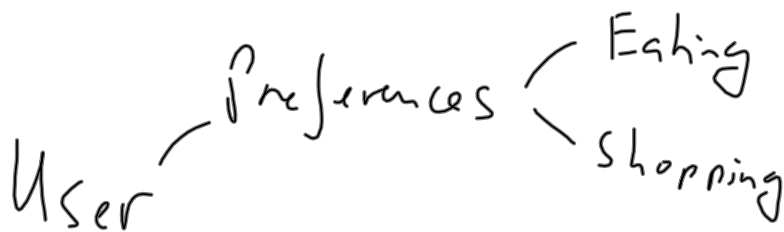
Rules:

people travelling

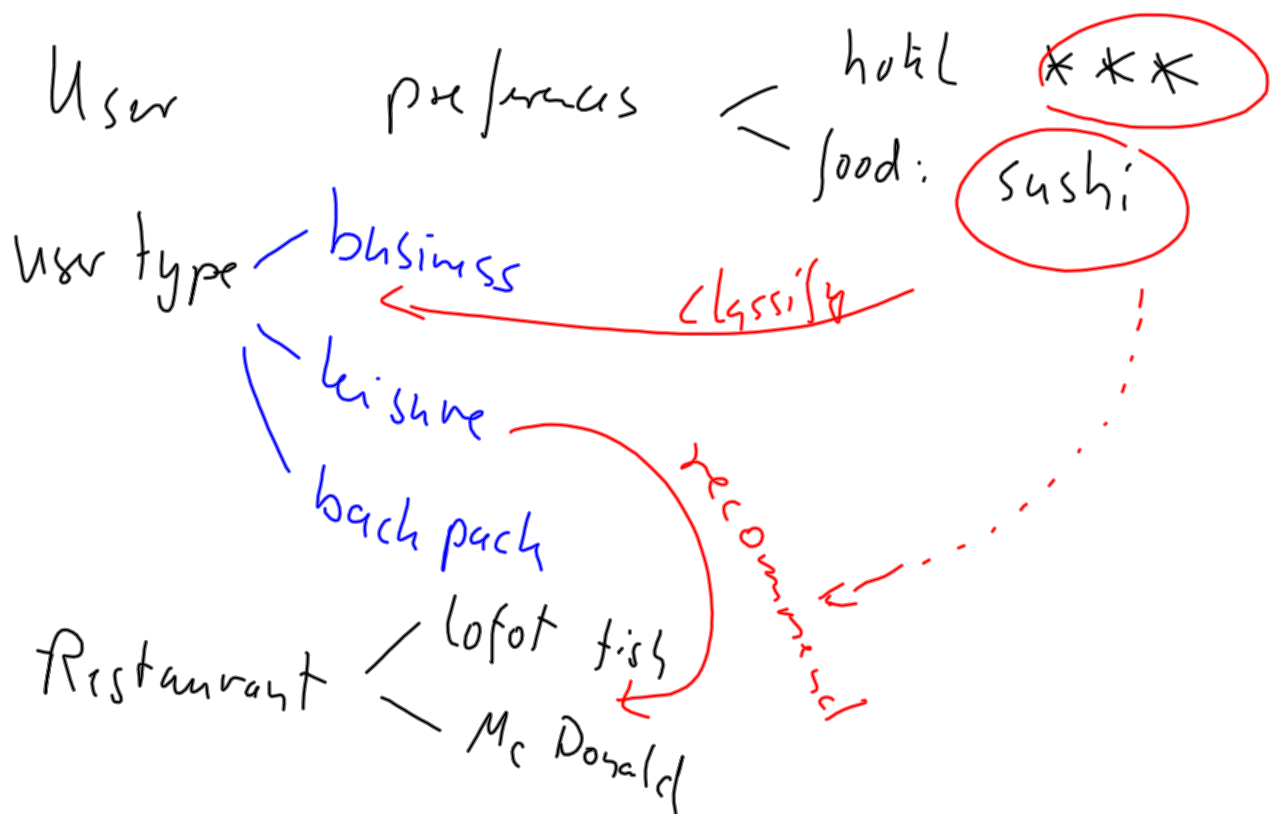
average sec level

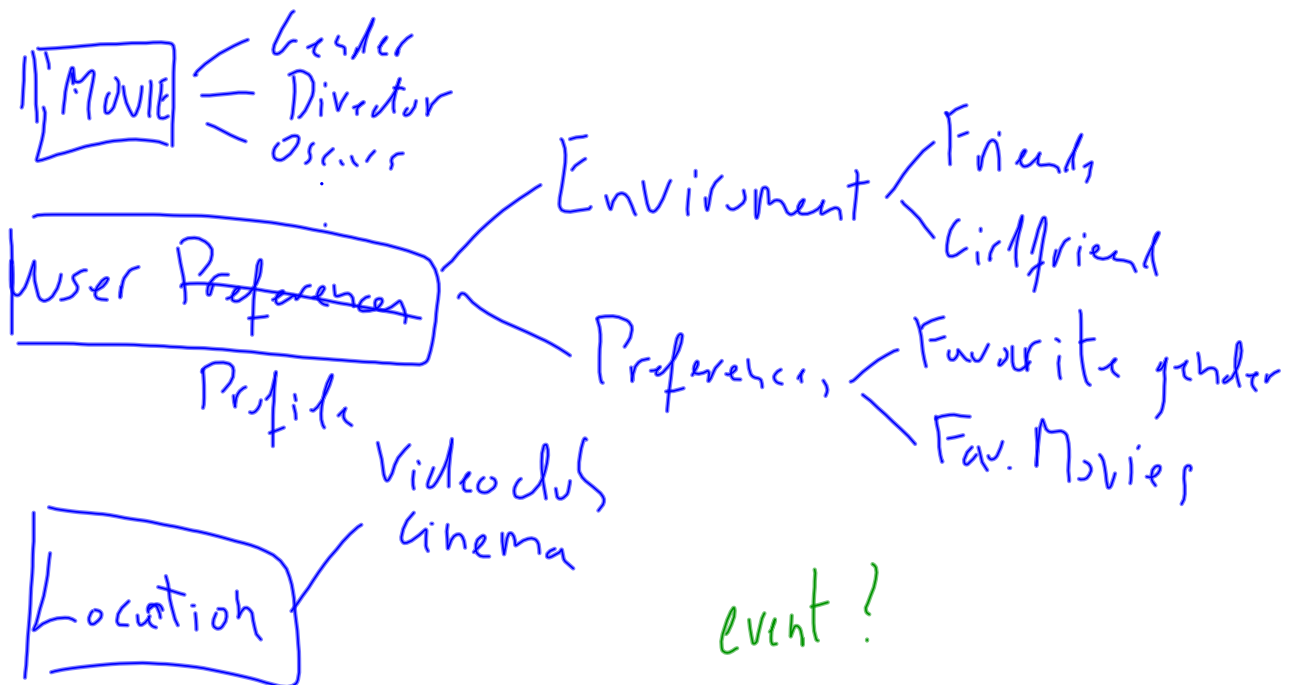
travel preferences

user classification



- type of users with type of preferences
- security expectation of a place suggest sec level used at place





event!

show cinemas with fav. movies in
 friend list // preferences // movie fits
 { days most preferences
 { friends? { soccer
 { dancing

Shi race
classes 8-9

3 children

location

9-10

11-17

start times

14-15

travelling together

People / club
location