

Polinotes

University Life

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POLITECNICO
MILANO 1863

The problem

EDUCATION

Essential part of the society, especially the knowledge provided by the university institutions

STRUGGLE

There is a relevant percentage of students who aren't able to follow the lectures

LECTURES

During the lectures, students take notes in order to have a better comprehension of the treated topics

PROVEN

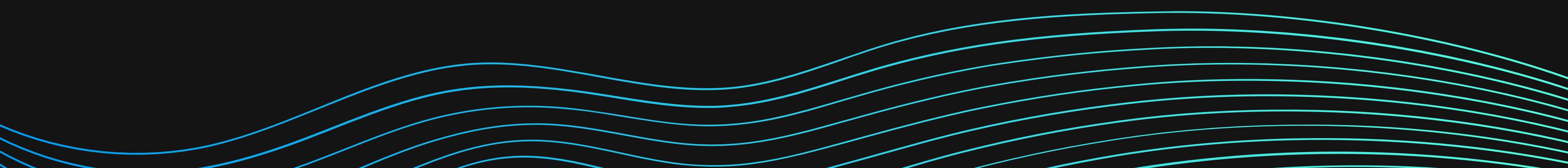
Students usually ask for some material from people who are reliable

NOTES

Students spend a lot of time and energy adjusting these notes in order to be able to study from them

DIFFICULTIES

For some people it's not easy to obtain study material, especially during pandemic



TARGET USERS

WORKING STUDENT

Busy with his job, doesn't have much time to spend on studies

OFF-SITE STUDENT

Struggles to follow the lesson synchronously and to get acquaintances with his classmates

RESPONSIBLE STUDENT

Good business attitude who would like to help other people



Idea

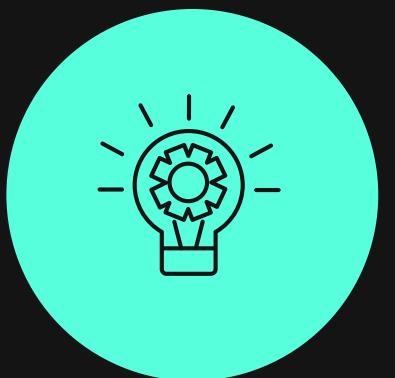
An online platform, affiliated with the Politecnico di Milano, where students are able to buy and sell notes.

Features

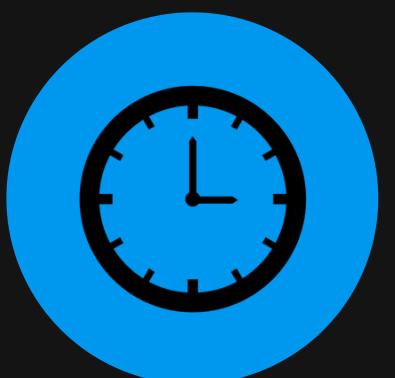
- Upload Notes
- Download Notes after a payment
- Rate (from 1 to 5) a purchased notes
- Review a purchased notes with textual comment
- See ratings and review left by other users on notes



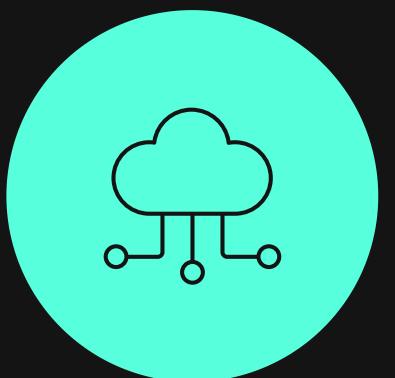
Advantages



Students help each other while earning for their effort



Save time: students can study from notes of other reliable students



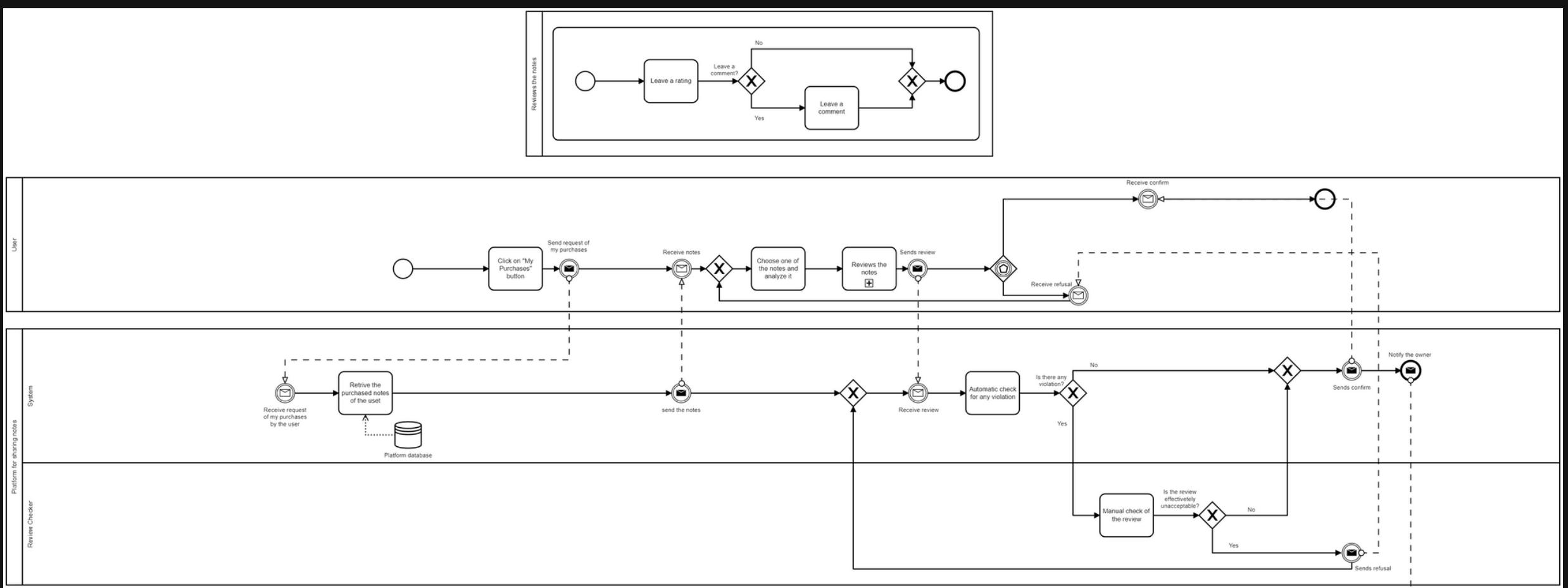
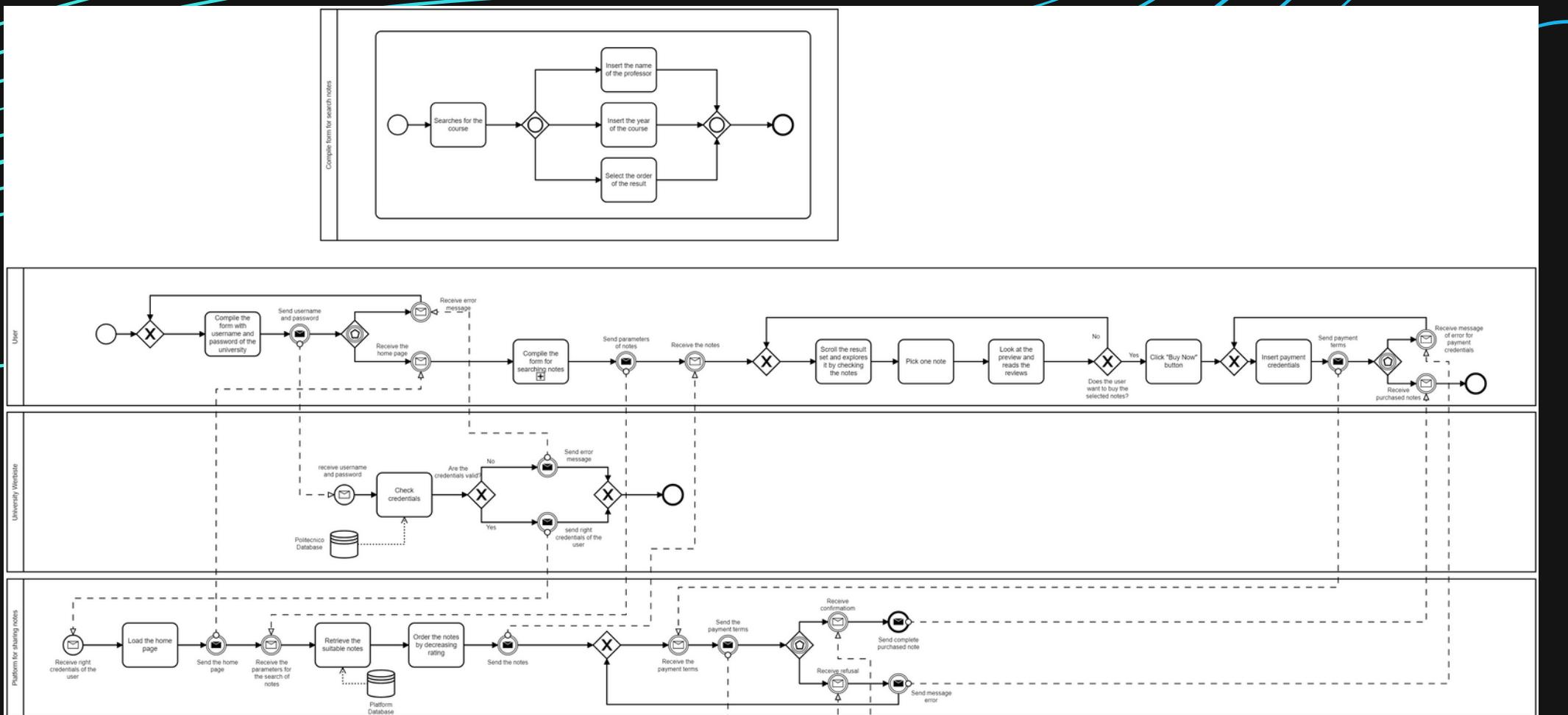
University reputation: new innovative service for students



The reliability of the notes is guaranteed by the ratings of the users

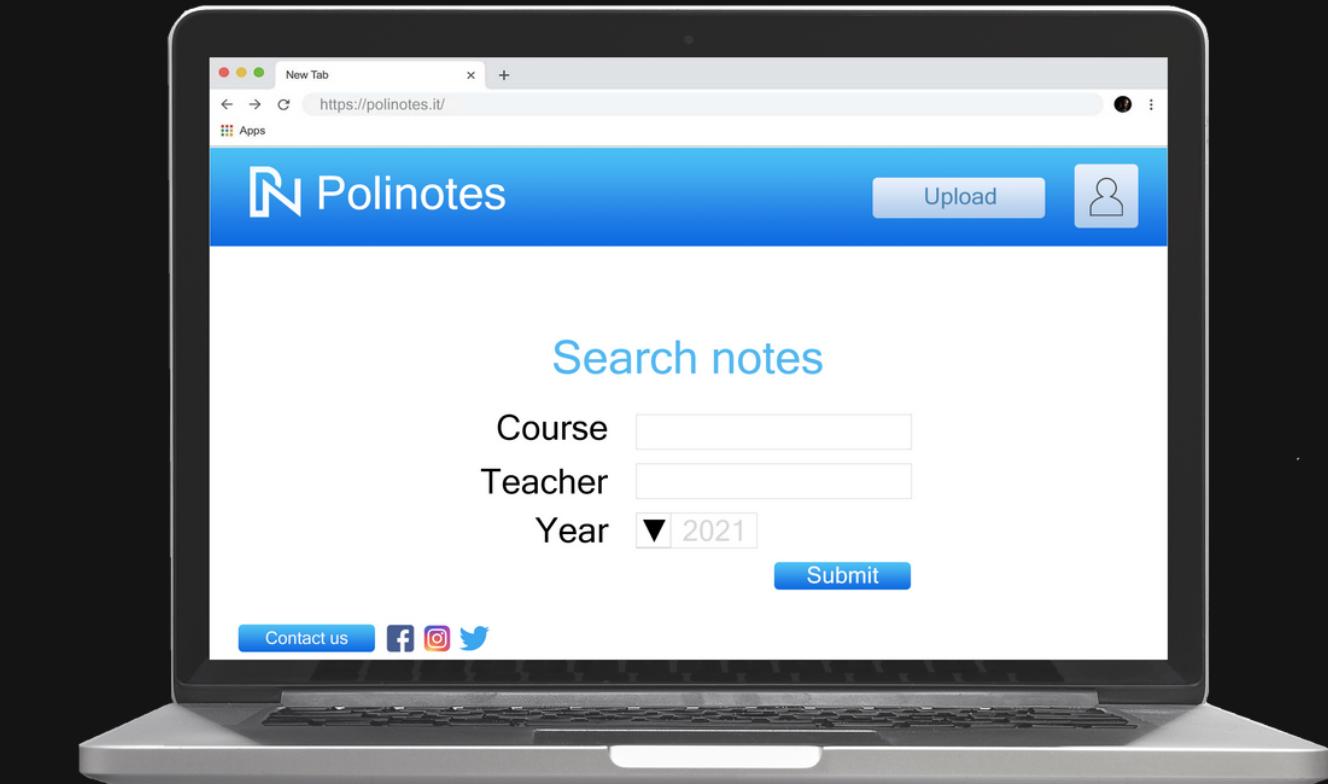
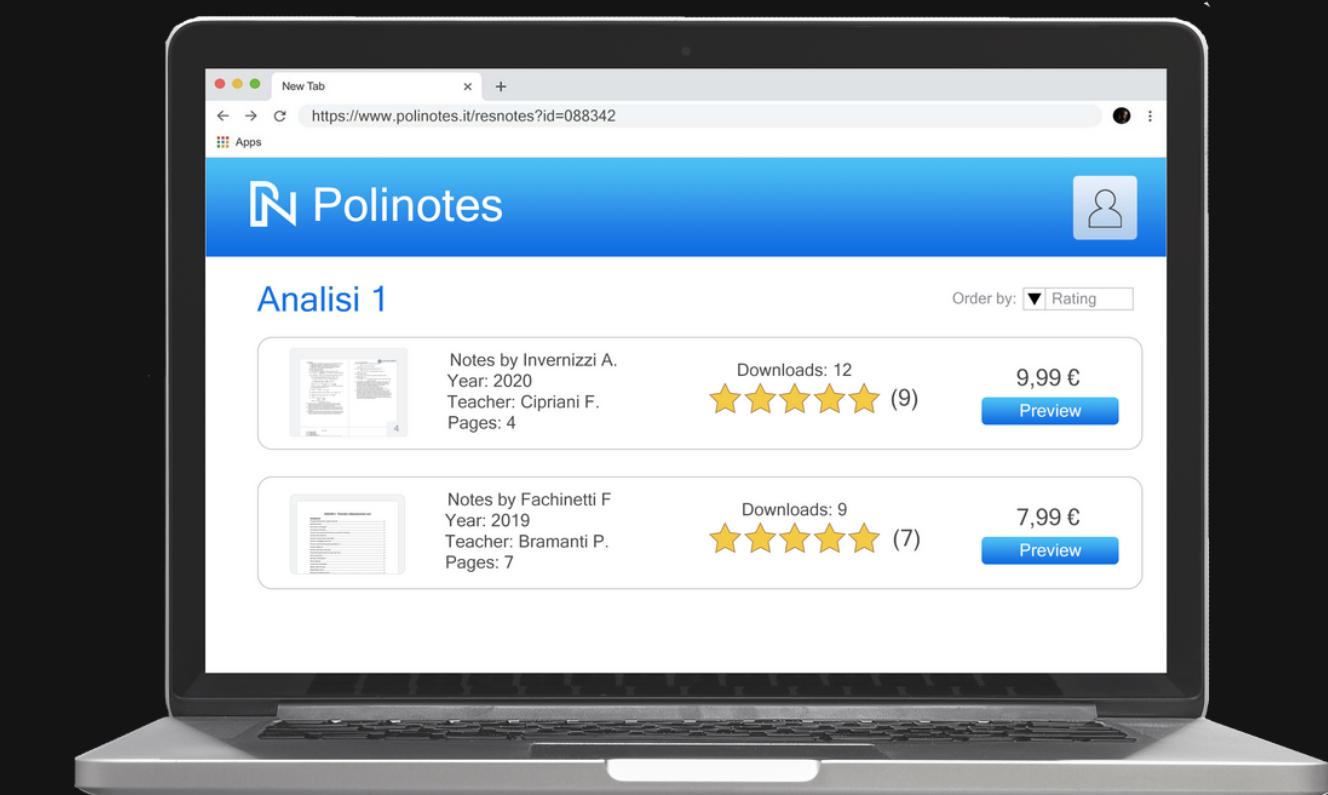
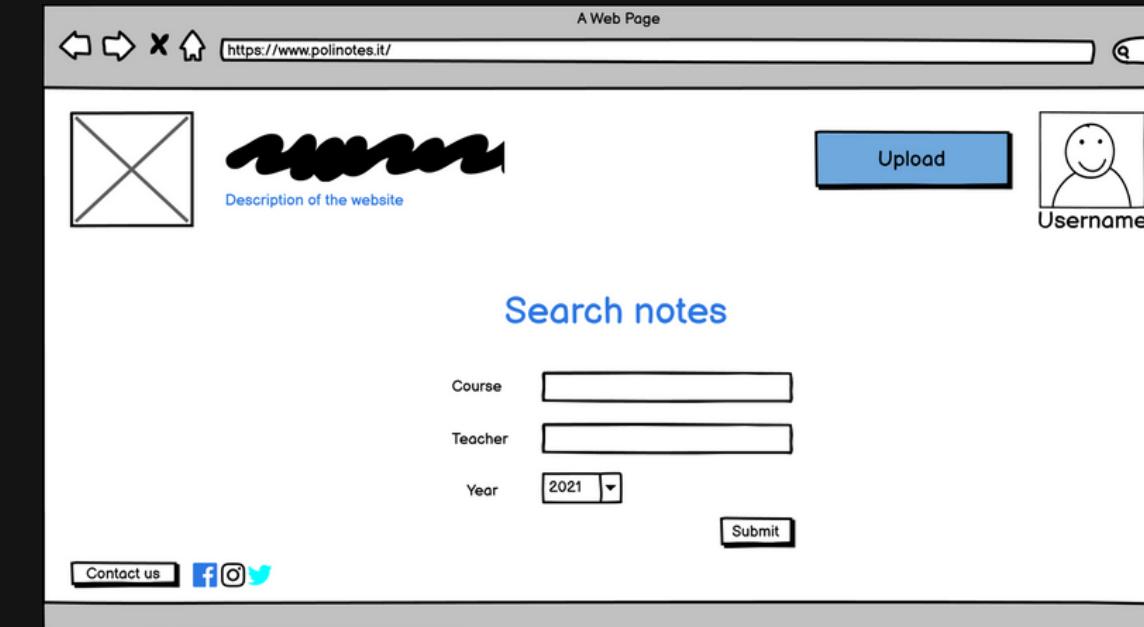
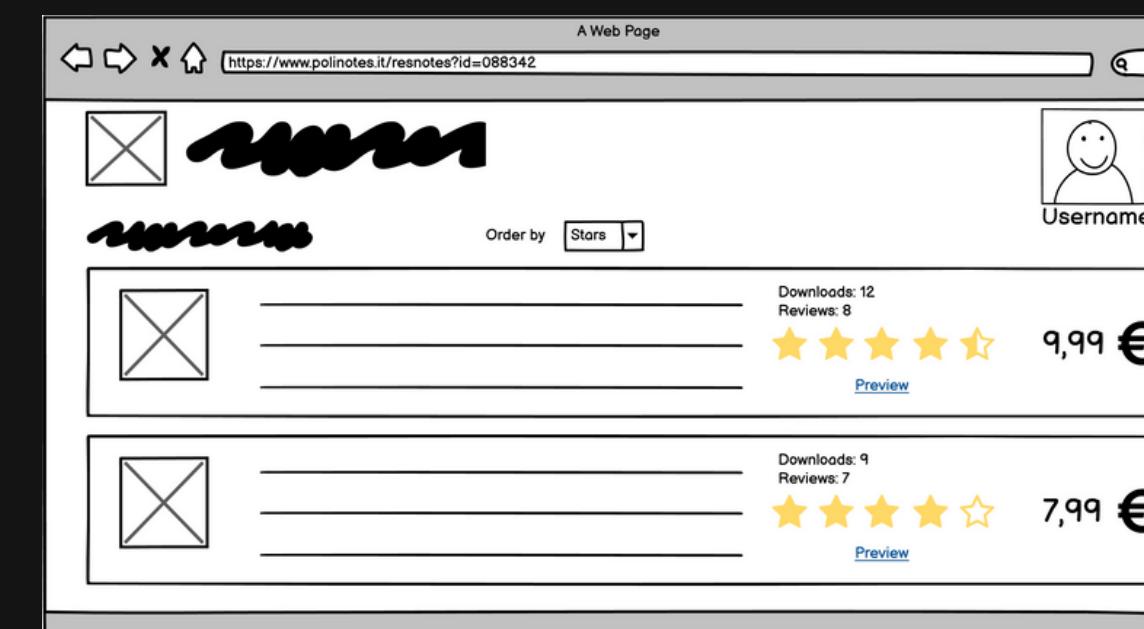
BPMN

Describes the flow of the tasks done during the purchase of notes and the review of them



USER INTERFACE

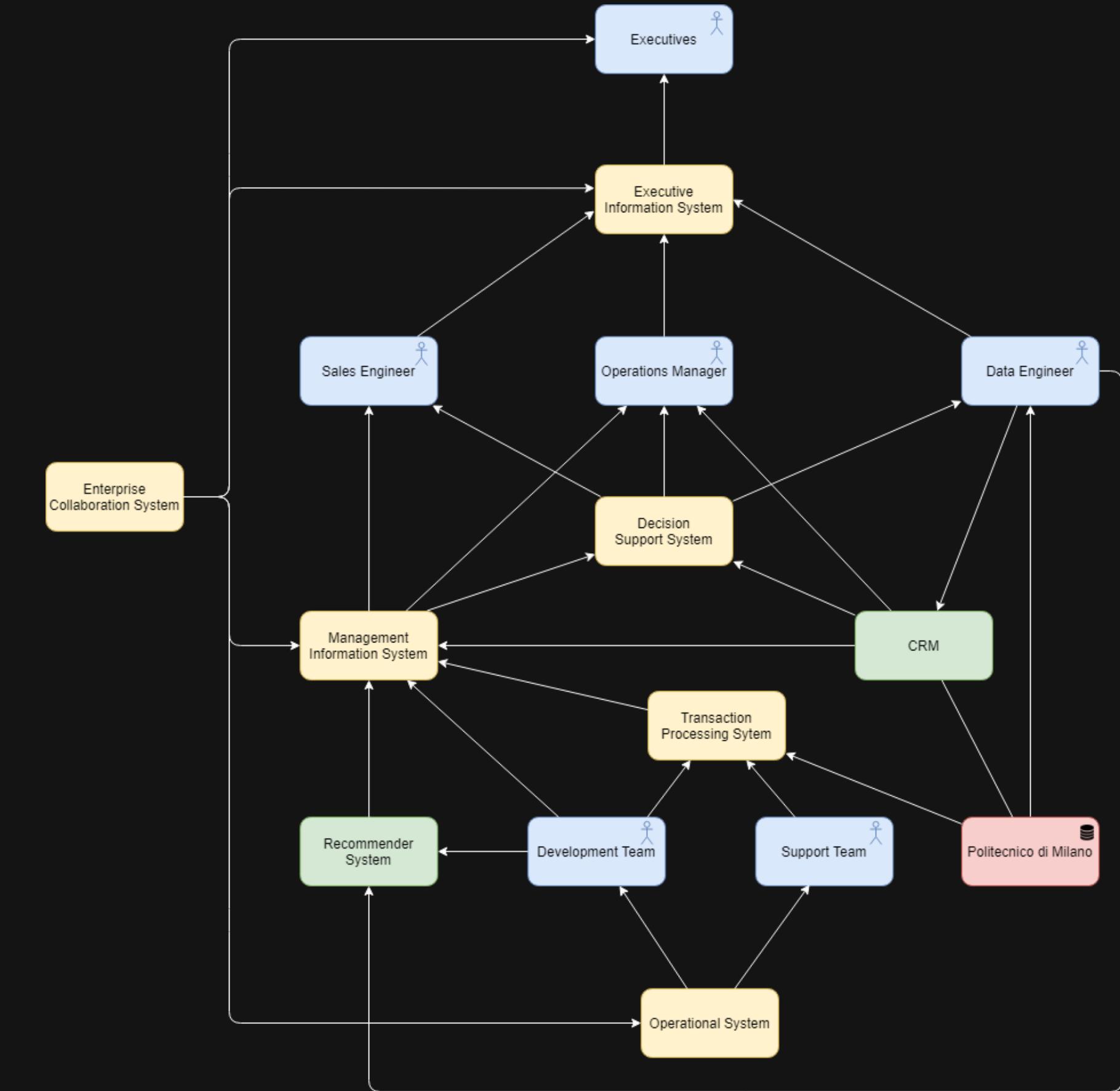
Screens of homepage and the page with the list of purchasable notes



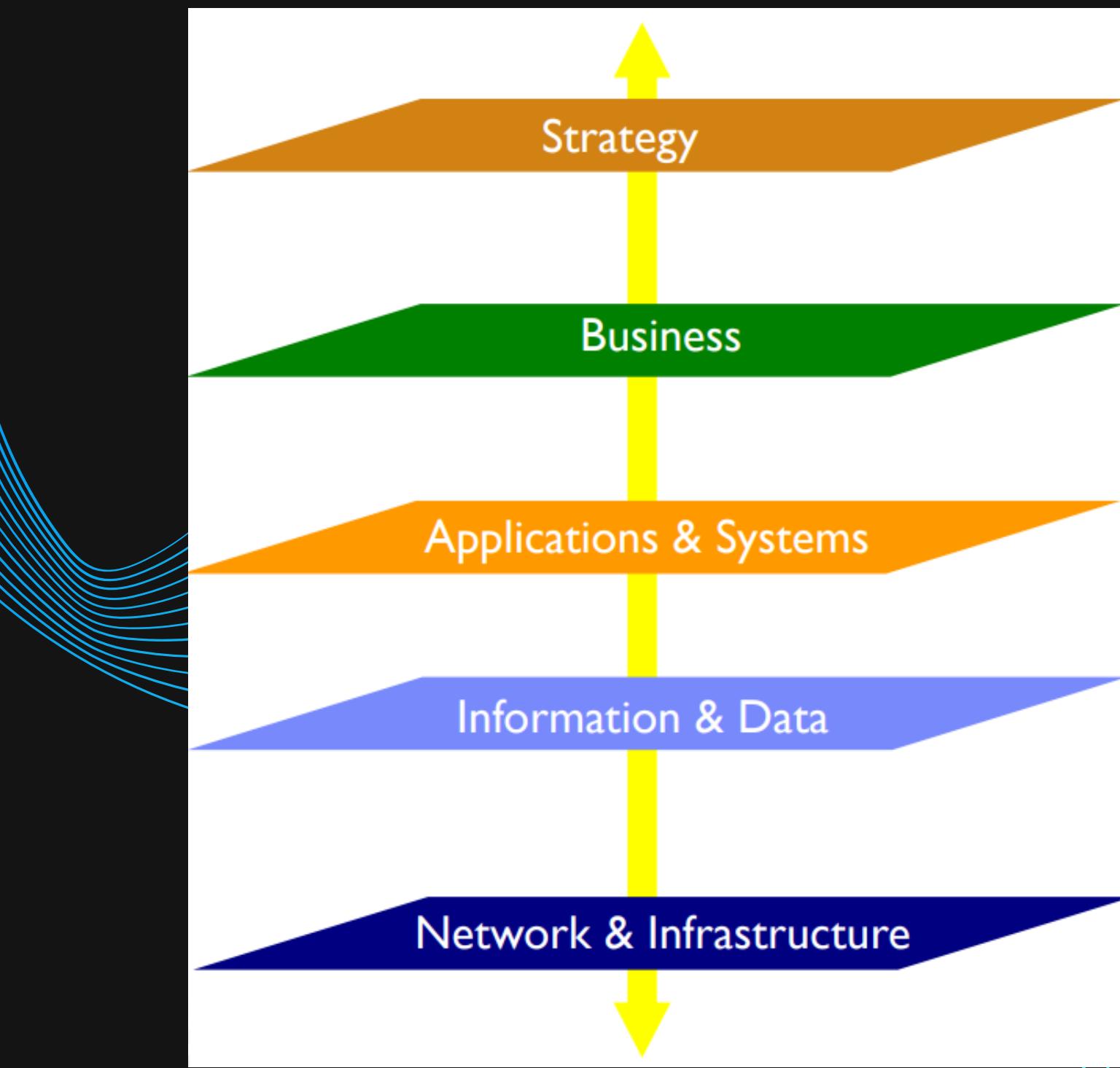
Information Flow

08

TECHNOLOGIES



Enterprise Architecture Domain



Mid-term strategy: affirmation
Long term strategy: expansion



Analytics Tools, Discount System



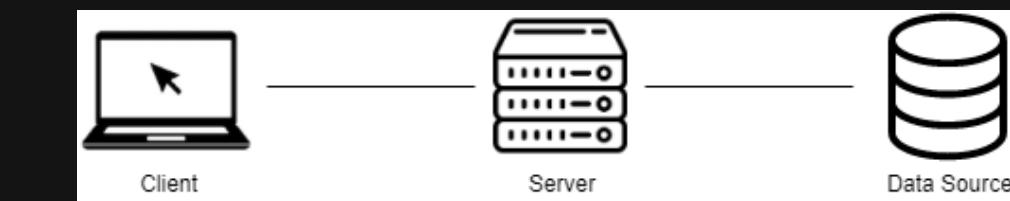
Webapp, plagiarism detector,
review checker, recommender system



Autentication



Notes, Ratings, Reviews

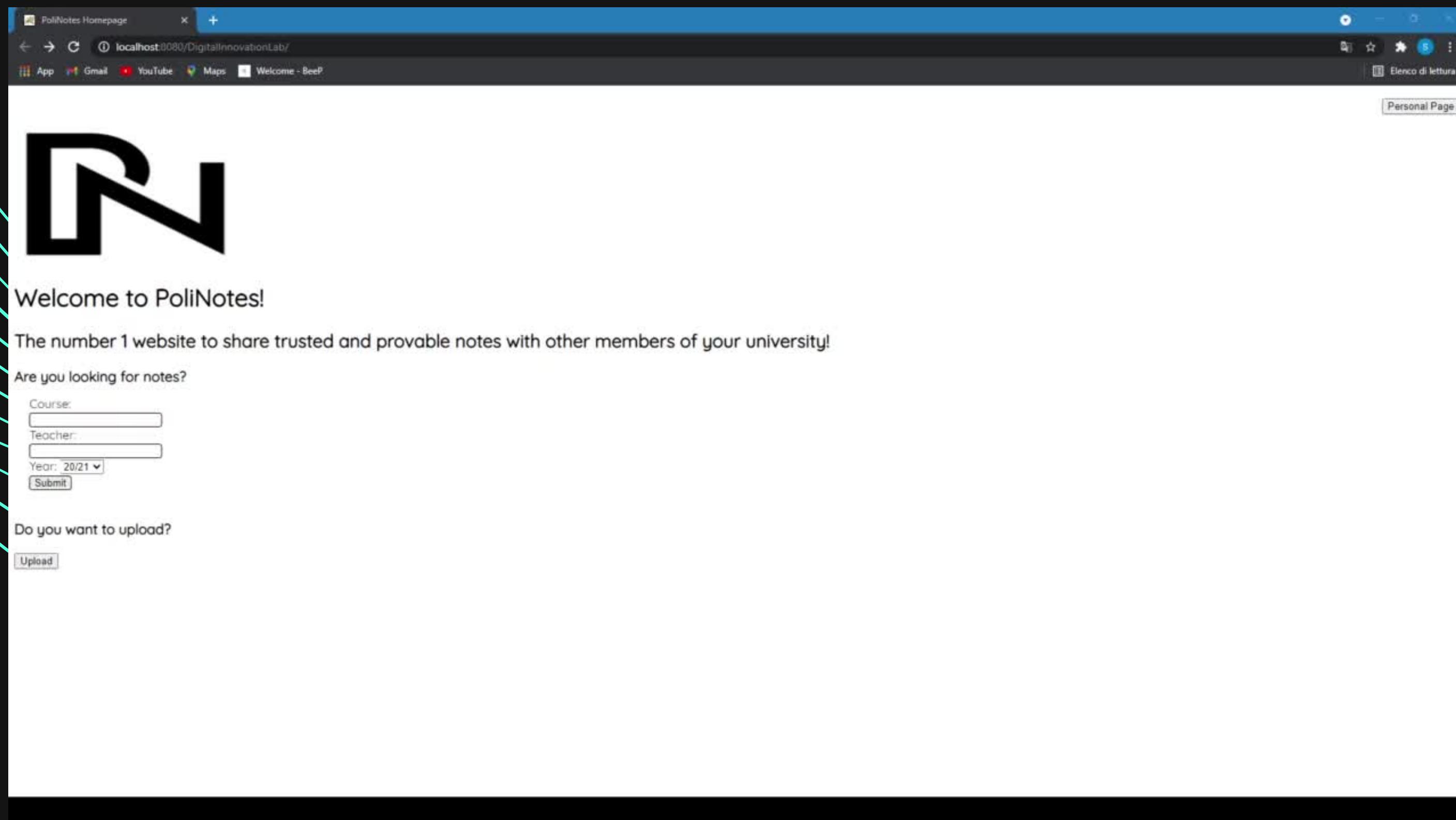


HTTPS

JSON

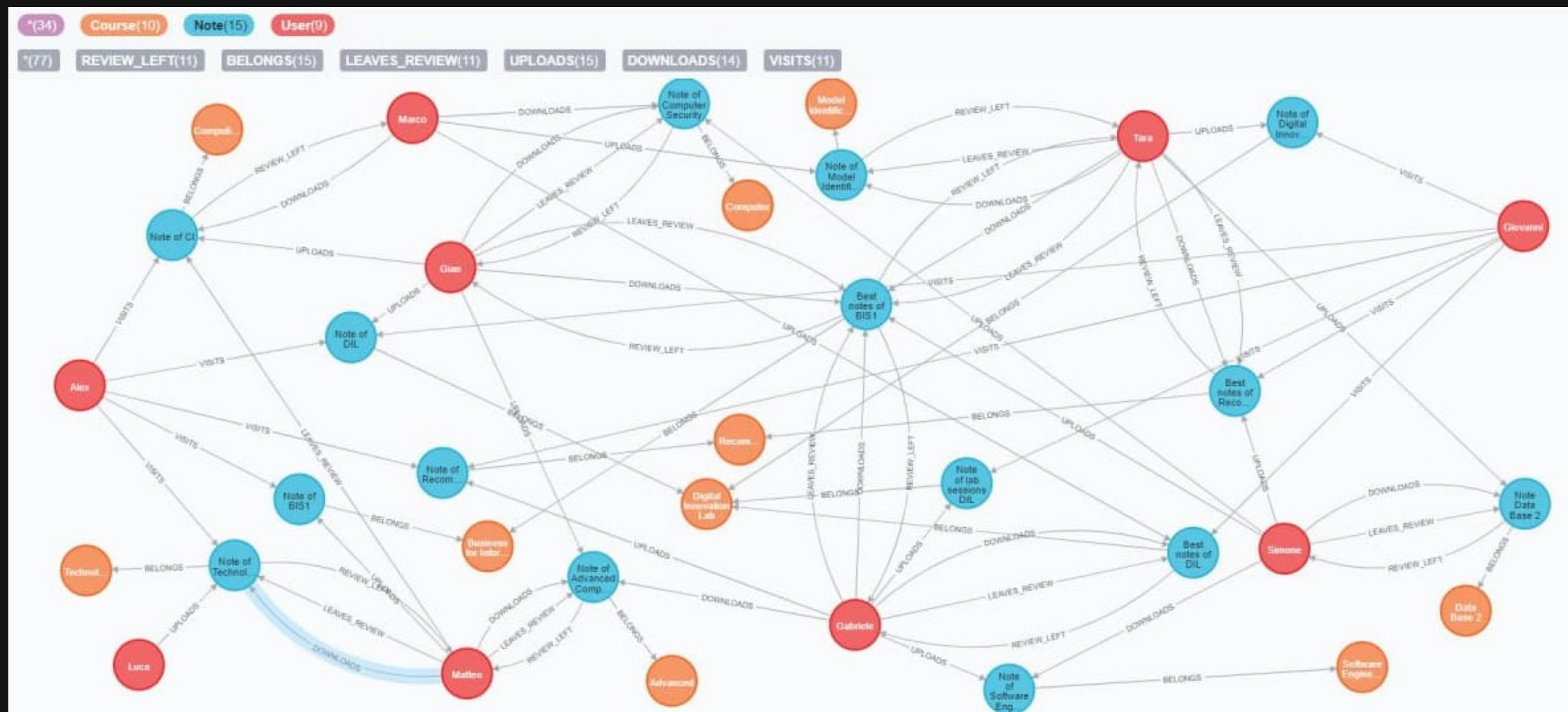
Demo Application

Here is shown the purchase of some notes



Database

PROTOTYPE



Cypher Queries

```
MATCH (user:User),(note:Note)
WHERE (user)-[:DOWNLOADS]→(note)
AND NOT (user)-[:LEAVES REVIEW]→(note)
RETURN user.name,note.name

er is taking a long time to respond

$ MATCH (user:User),(note:Note) WHERE (user)-[:DOWNLOADS]→(note) AND NOT (user)-[:LEAVES REVIEW]→(note) RETURN ...
```

user.name	note.name
"Simone"	"Note of Software Engineering 2"
"Gabriele"	"Note of Advanced Computer Architectures"
"Marco"	"Note of Computer Security"
"Marco"	"Note of CI"

```
j$ MATCH (note:Note)-[:BELONGS]→(course:Course {name:'Digital Innovation Lab'}) RETURN note.name
```

note.name
"Note of Digital Innovation Lab"
"Note of DIL"
"Best notes of DIL"
"Note of lab sessions DIL"



**Thank you for
your attention!**