

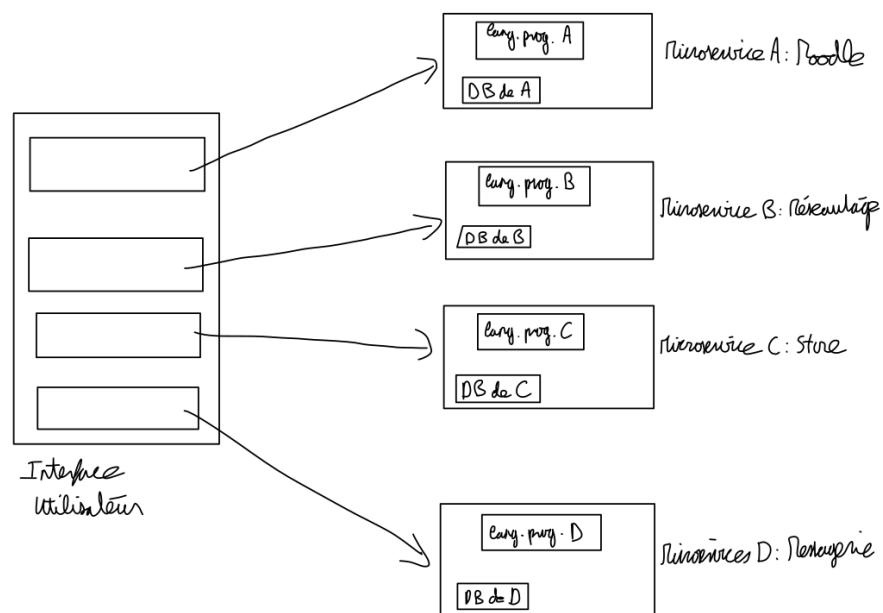
layer

TD5 Software Engineering

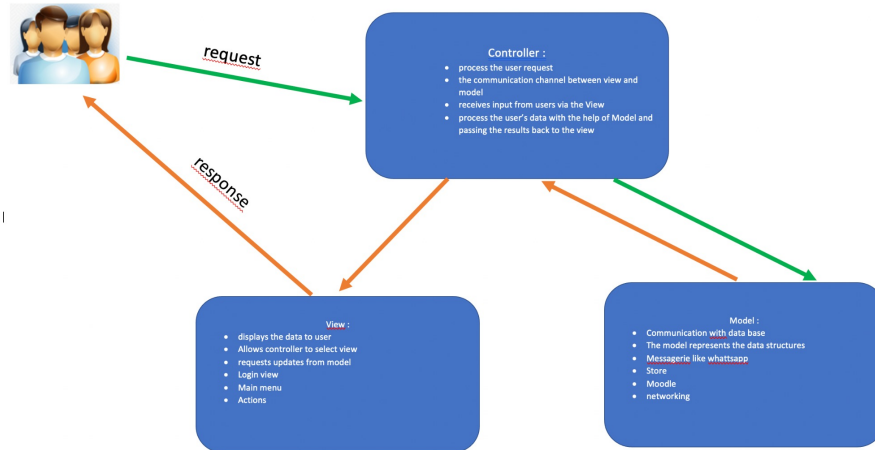
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1 Microservices

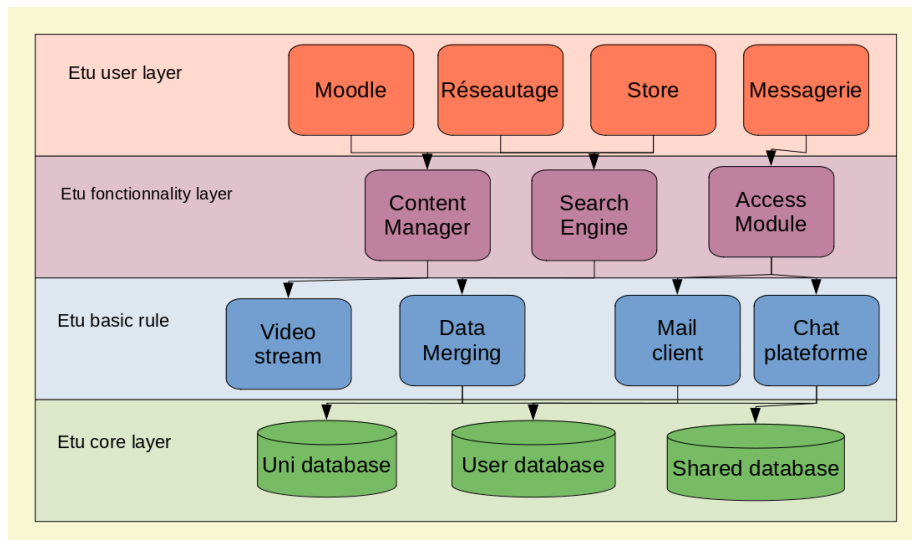
1. Micro-services



2 MVC



3 Layered Architecture



ETU user layer

Screens, menus and access to the different tools of the application:

- Moodle
- Messagerie
- Réseautage

- Store

Etu functionality layer

Main menu with the 4 sections.

We can navigate between those applications according to what is needed.

Those applications will send request to those functionality.

- If a student need to follow his cours via video stream:
 - > Go to the moodle section which will call the content manager.
- If a student need to ask questions and need help for homework about this cours:
 - > Go to the messagerie section that would call the Access Module

Etu basic rules

To get access to the whole platform, you need to be a part of the university environment. Unique username and student/teacher id.

So the basic rule will decide which resource to use according to the request of the layer above. For instance, in the resautage section, there are rules about plagiat, copy-right, accessibility, etc.

Etu core layer

The core database for the sections, it's subdivided in 3 databases:

- University
- User
- Shared

The university database is used to store all the data (documents, media, research, etc.) that concern the University. The user database store data from users and the shared database store information that are shared between many university using this platform.

If a student uses the Moodle section he would eventually access the university or the user database.