

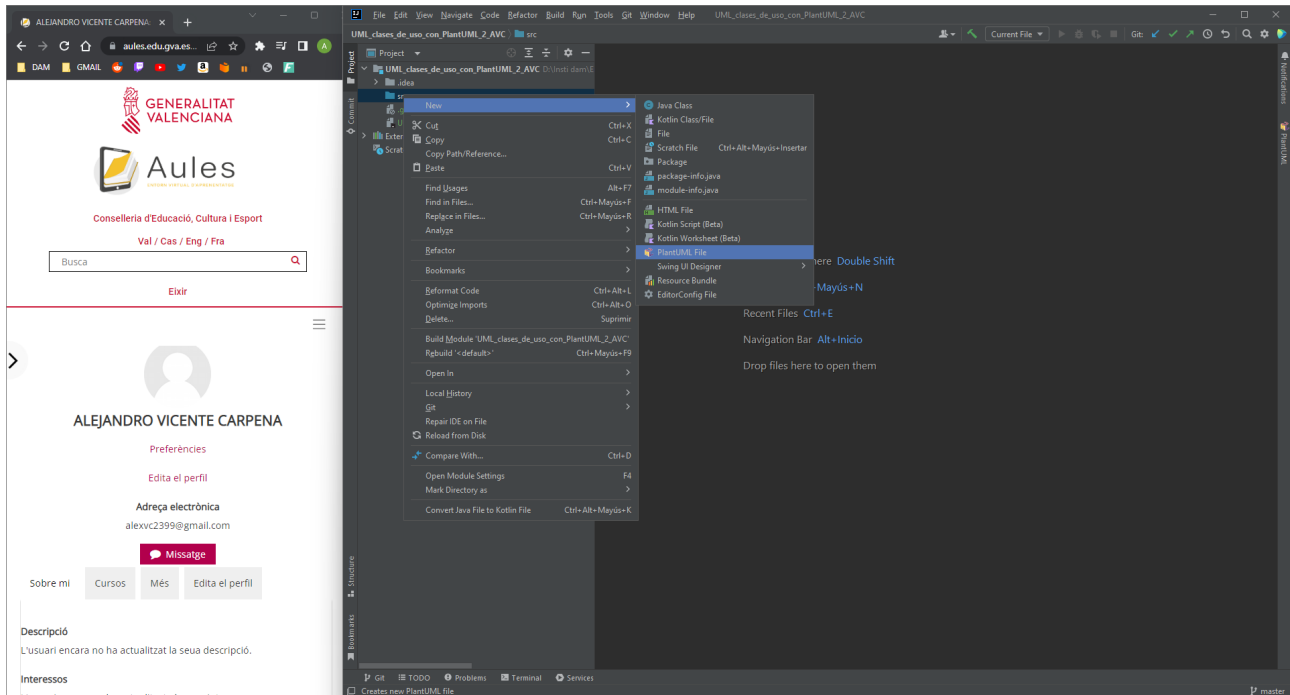
Memoria Clases de uso con PlantUml 2

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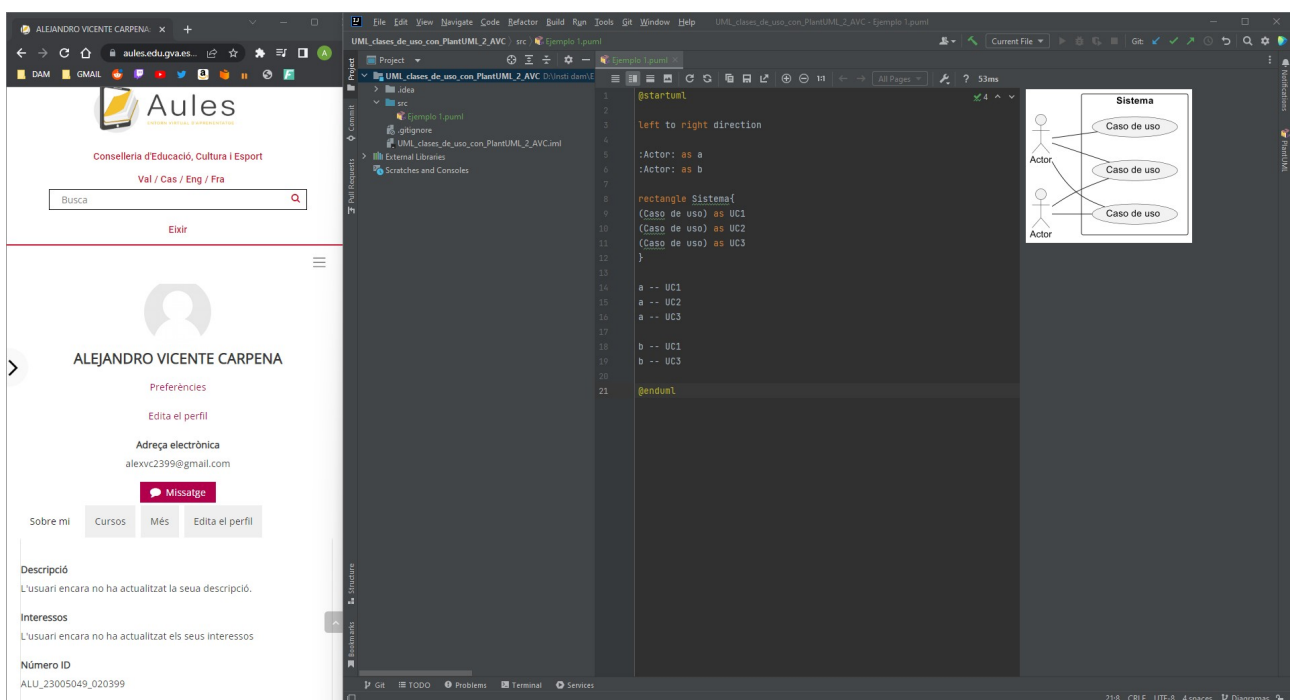
Enlace a github

https://github.com/alexvc991/2--UML_clases_de_uso_AVC

Para empezar la practica, creamos el proyecto, lo añadimos a un repositorio y creamos un archivo plantuml



El primer ejemplo que sale en el video es el siguiente



El segundo ejemplo es igual que el primero pero cambiando el nombre de los actores y de los casos de uso

The screenshot shows a web browser on the left displaying the 'Aules' website, which is the user interface for the library system. The browser shows a search bar, a login button, and a user profile for 'ALEJANDRO VICENTE CARPENA'. On the right, an IDE (IntelliJ IDEA) displays a UML Use Case diagram for 'Ejemplo 2.puml'. The diagram shows two actors: 'Socio' and 'Bibliotecario'. 'Socio' is associated with use cases 'Reservar libro' (UC1), 'Devolver libro' (UC2), and 'Prestar libro' (UC3). 'Bibliotecario' is associated with 'Actualizar catalogo' (UC4). The code in the IDE defines the use cases and their relationships.

```
1 @startuml
2 left to right direction
3
4 :Socio: as a
5 :Bibliotecario: as b
6
7 rectangle Biblioteca{
8   (Reservar libro) as UC1
9   (Prestar libro) as UC2
10  (Devolver libro) as UC3
11  (Actualizar catalogo) as UC4
12 }
13
14 a -- UC1
15 a -- UC2
16 a -- UC3
17
18 b -- UC4
19
20 @enduml
```

El ejemplo de relacion de inclusion es el siguiente

The screenshot shows the same web browser on the left. On the right, the IDE displays a UML Use Case diagram for 'Ejemplo 3.puml'. The diagram shows two actors: 'Bibliotecario' and 'Baja socio'. 'Bibliotecario' is associated with use cases 'Baja socio' (UC1) and 'Buscar socio' (UC2). 'Baja socio' is associated with 'Buscar socio'. The code in the IDE defines the use cases and their relationships, including an inclusion relationship between UC1 and UC2.

```
1 @startuml
2 left to right direction
3
4 :Bibliotecario: as b
5
6 (Baja socio) as UC1
7 (Buscar socio) as UC2
8
9 b -- UC1
10 b -- UC2
11 UC1 --> UC2 : <<include>>
12 @enduml
```

El ejemplo de relacion de extension es el siguiente

The screenshot displays a web browser on the left and an IDE on the right. The browser shows the 'Aules' website with a user profile for 'ALEJANDRO VICENTE CARPENA'. The IDE shows a UML project with a file named 'Ejemplo 4.puml'. The code in the IDE defines a use case 'Evaluar solicitud de credito' and an extension 'Solicitar informacion adicional al cliente'. The diagram on the right illustrates the extension relationship with a stick figure actor 'Agente' connected to the use case, which then extends to the extension use case.

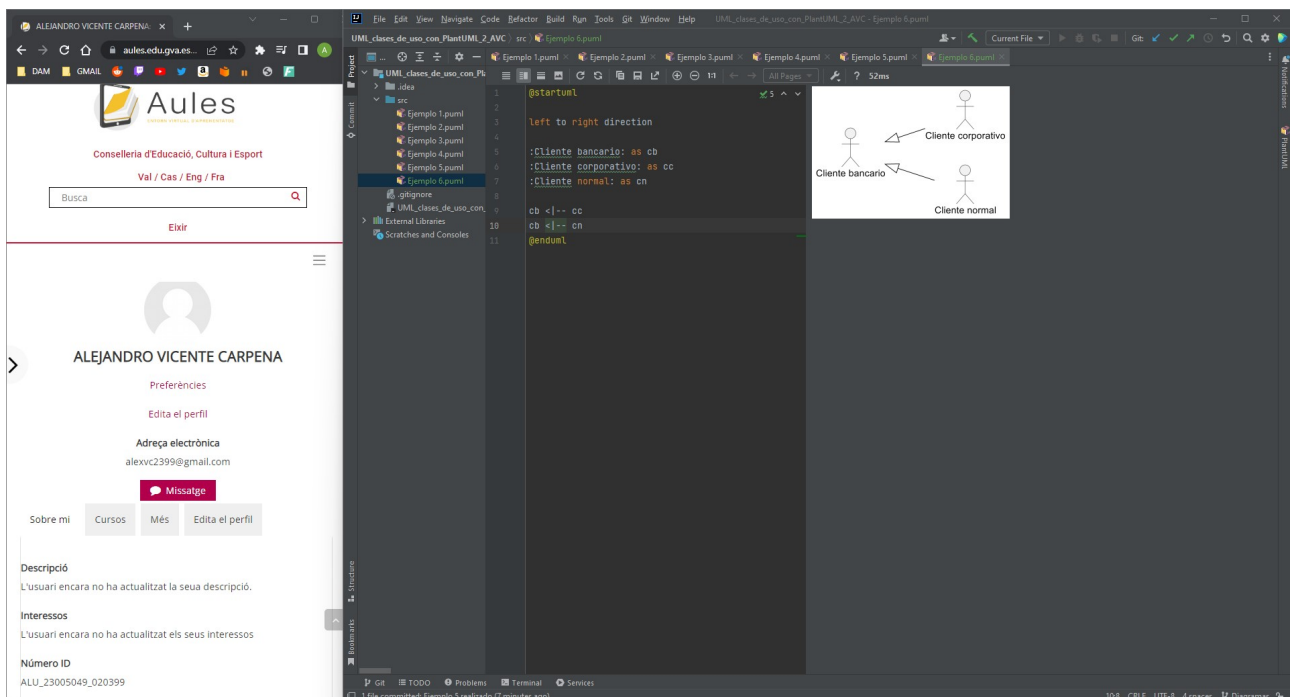
```
@startuml
left to right direction
:Agente: as a
(Evaluar solicitud de credito) as UC1
(Solicitar informacion adicional al cliente) as UC2
a --> UC1
UC1 <.. UC2 : <<extends>>
```

Este seria el ejemplo de herencia

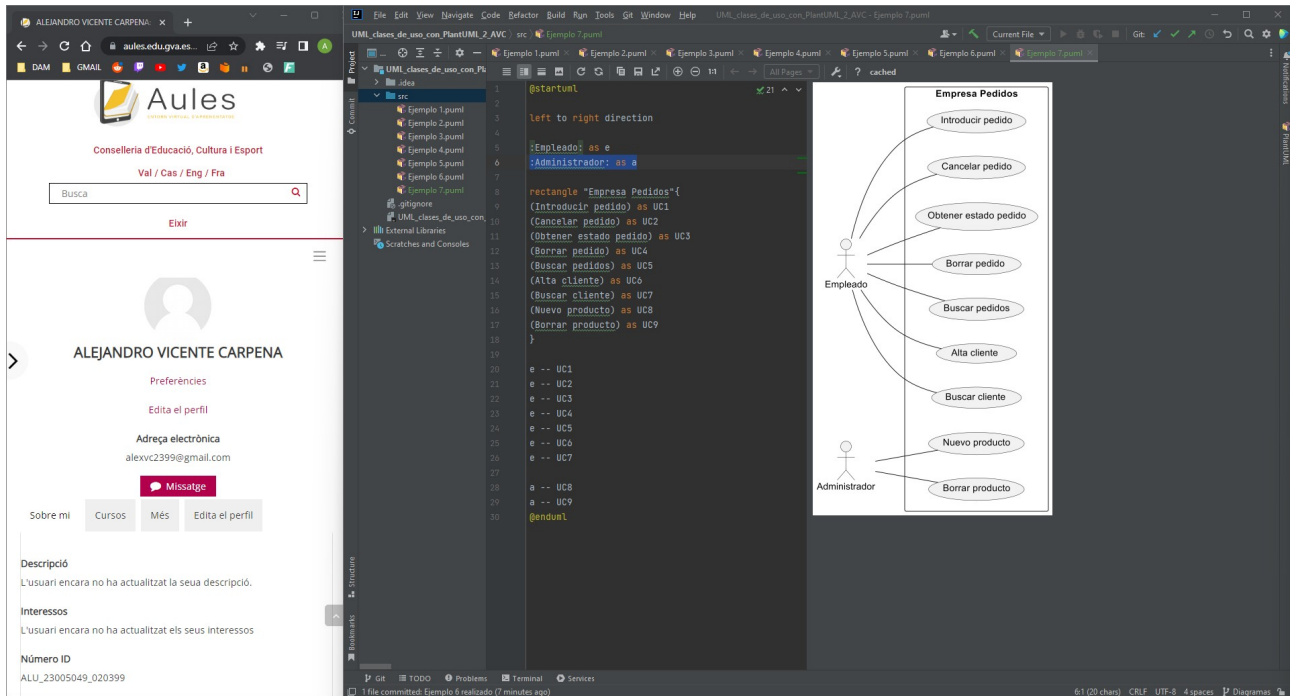
The screenshot displays a web browser on the left and an IDE on the right. The browser shows the 'Aules' website with a user profile for 'ALEJANDRO VICENTE CARPENA'. The IDE shows a UML project with a file named 'Ejemplo 5.puml'. The code in the IDE defines three use cases: 'Enviar solicitud de credito personal', 'Enviar solicitud de credito empresarial', and 'Enviar solicitud de credito'. The diagram on the right illustrates the inheritance relationship with a stick figure actor 'Agente' connected to the 'Enviar solicitud de credito' use case, which then inherits from the 'Enviar solicitud de credito personal' and 'Enviar solicitud de credito empresarial' use cases.

```
@startuml
left to right direction
:Agente: as a
(Enviar solicitud de credito) as UC1
(Enviar solicitud de credito personal) as UC2
(Enviar solicitud de credito empresarial) as UC3
a --> UC1
UC2 -|> UC1
UC3 -|> UC1
@enduml
```

El ejemplo de herencia de actores seria este



Este seria el ejemplo de diagrama inicial



Y este el ejemplo de diagrama estructurado o modelo de casos de uso

The image displays a web application interface on the left and a UML Use Case Diagram on the right, both within a development environment.

Web Application Interface (Left):

- Header: "Aules" logo, "Conselleria d'Educació, Cultura i Esport", and language selection "Val / Cas / Eng / Fra".
- Search bar: "Busca" with a magnifying glass icon.
- User profile: "ALEJANDRO VICENTE CARPENA" with a profile picture, "Preferències", "Edita el perfil", and "Adreça electrònica" (alexvc2399@gmail.com).
- Navigation: "Sobre mi", "Cursos", "Més", and "Edita el perfil".
- Footer: "Descripció", "Interessos", and "Número ID" (ALU_23005049_020399).

UML Use Case Diagram (Right):

- Actors:** "Empleado".
- Use Cases:** "Alta cliente", "Introducir pedido", "Obtener estado pedido", "Cancelar pedido", "Buscar cliente", "Pago en cuenta", "Pago con tarjeta", and "Buscar pedido".
- Relationships:**
 - "Alta cliente" includes "Introducir pedido".
 - "Introducir pedido" includes "Buscar cliente", "Pago en cuenta", and "Pago con tarjeta".
 - "Obtener estado pedido" includes "Buscar pedido".
 - "Cancelar pedido" includes "Buscar pedido".

UML Class Diagram (Middle):

```
@startuml
left to right direction
:Empleado: as e
(Alta cliente) as UC1
(Introducir pedido) as UC2
(Obtener estado pedido) as UC3
(Cancelar pedido) as UC4
(Buscar cliente) as UC5
(Pago en cuenta) as UC6
(Buscar pedido) as UC7
(Pago con tarjeta) as UC8

e -- UC1
e -- UC2
e -- UC3
e -- UC4
e -- UC7
e -- UC8

UC1 ..> UC2 : extiende
UC2 ..> UC5 : incluye
UC2 ..> UC6 : extiende
UC2 ..> UC8 : extiende
UC3 ..> UC7 : incluye
UC4 ..> UC7 : incluye
@enduml
```