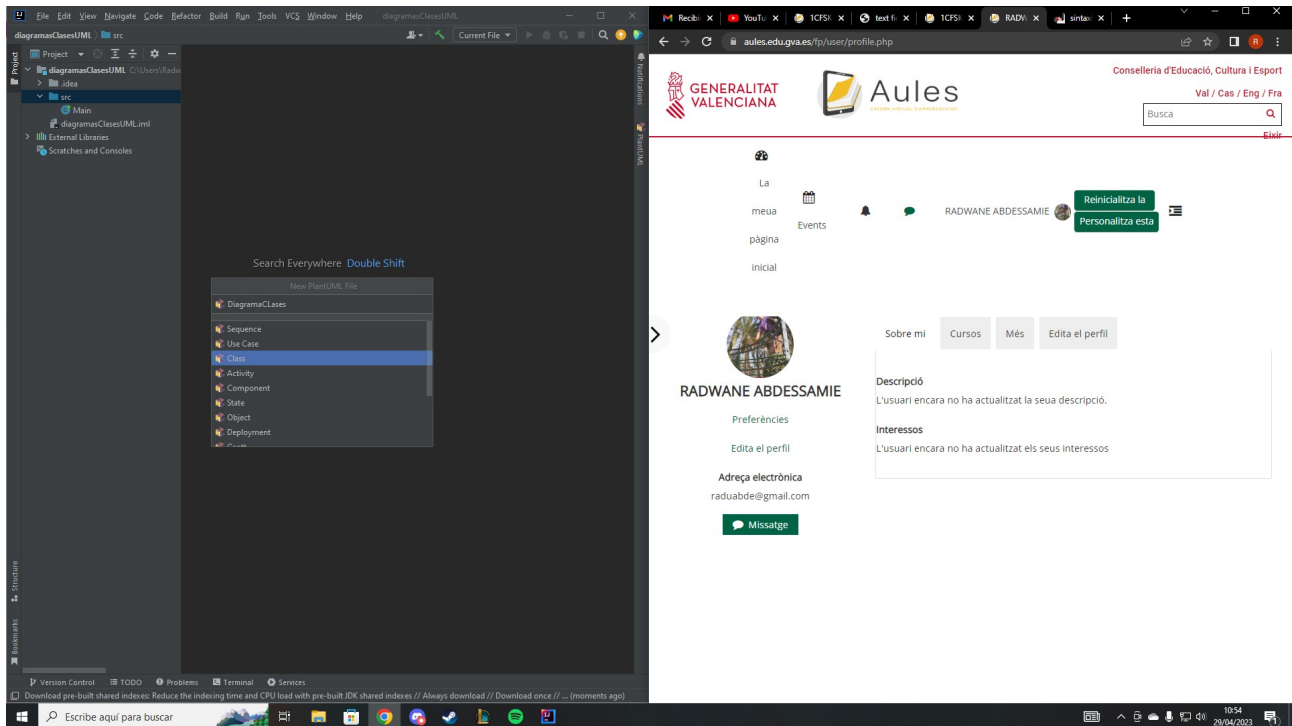


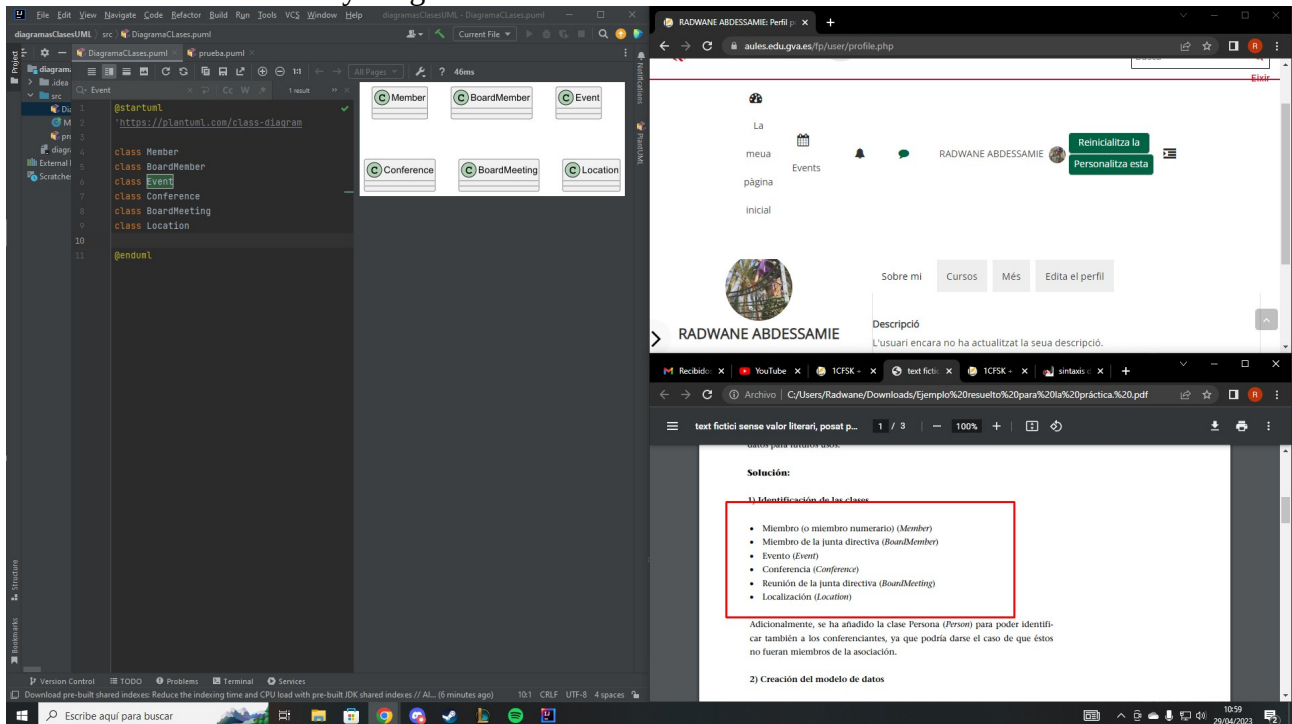
MEMORIA DIAGRAMA CLASES UML RADWANE

Enlace Repositorio: <https://github.com/RaduAbde/UMLCLASESRadwane>

1. Creamos el archivo PUML



2. Identificamos las clases y las generamos con la notación : class “nombre de la clase”



3. Generamos la jerarquía de clases entre Event, Conference y BoardMeeting con el token "<|--"

The screenshot shows two windows. The left window is an IDE (IntelliJ IDEA) displaying a class diagram and code. The class diagram shows a hierarchy where 'Event' is the superclass, and 'Conference' and 'BoardMeeting' are subclasses. The code in the IDE shows the following structure:

```
class Member
class BoardMember
class Event
class Conference
class BoardMeeting
class Location

Event <|-- Conference
Event <|-- BoardMeeting
```

The right window is a web browser showing a user profile for 'RADWANE ABDESSAMIE'. The profile includes a header with navigation links (meua, Events, RADWANE ABDESSAMIE, Reinicialitza la Personalitza esta), a profile picture, and a description section. Below the profile, there is a PDF document titled 'text fictici sense valor literari, posat p...' with a diagram showing a hierarchy where 'Event' is the superclass, and 'Conference' and 'BoardMeeting' are subclasses.

4. Generamos la jerarquía entre Persona Member y BoradMember

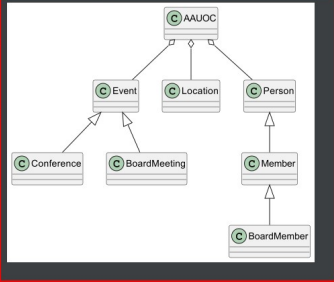
The screenshot shows two windows. The left window is an IDE (IntelliJ IDEA) displaying a class diagram and code. The class diagram shows a hierarchy where 'Person' is the superclass, and 'Member' and 'BoardMember' are subclasses. The code in the IDE shows the following structure:

```
class Member
class BoardMember
class Event
class Conference
class BoardMeeting
class Location

Event <|-- Conference
Event <|-- BoardMeeting
Person <|-- Member
Member <|-- BoardMember
```

The right window is a web browser showing a user profile for 'RADWANE ABDESSAMIE'. The profile includes a header with navigation links (meua, Events, RADWANE ABDESSAMIE, Reinicialitza la Personalitza esta), a profile picture, and a description section. Below the profile, there is a PDF document titled 'text fictici sense valor literari, posat p...' with a diagram showing a hierarchy where 'Person' is the superclass, and 'Member' and 'BoardMember' are subclasses. Below the diagram, there is text in Catalan: 'Además, tenemos las clases Localización (Location) y Asociación (AAUOC), que se relacionan con el resto de clases del siguiente modo:'.

5. Implementamos las relaciones de agregación con el token “o--”

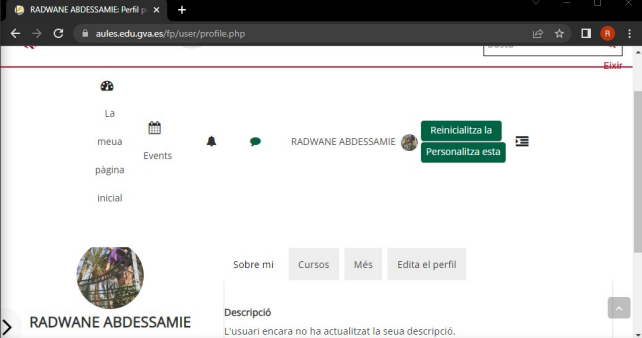


```

classDiagram
    class AAUOC
    class Event
    class Location
    class Person
    class Conference
    class BoardMeeting
    class Member
    class BoardMember

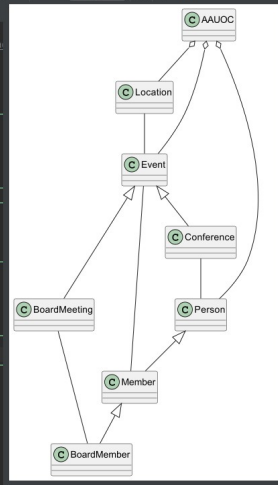
    AAUOC "o--" Event
    AAUOC "o--" Location
    AAUOC "o--" Person
    Event <|-- Conference
    Event <|-- BoardMeeting
    Person <|-- Member
    Member <|-- BoardMember
    
```

Diagram illustrating the implementation of aggregation relationships (o--) between AAUOC and Event, Location, and Person. The diagram also shows inheritance relationships: Event is a base class for Conference and BoardMeeting; Person is a base class for Member and BoardMember.



Profile page for RADWANE ADESSAMIE, showing navigation links (meua, Events, pàgina, inicial), profile information (Sobre mi, Cursos, Més, Editar el perfil), and a description section.

6. Implementamos las relaciones de uso con el token “--”

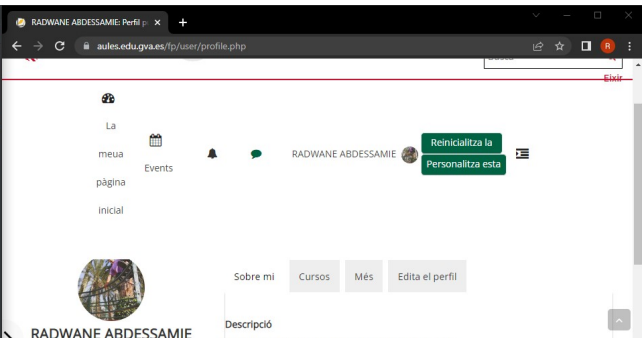


```

classDiagram
    class AAUOC
    class Location
    class Event
    class Conference
    class BoardMeeting
    class Person
    class Member
    class BoardMember

    AAUOC -- Event
    AAUOC -- Location
    AAUOC -- Person
    Event <|-- Conference
    Event <|-- BoardMeeting
    Person <|-- Member
    Member <|-- BoardMember
    Conference -- Person
    Event -- Member
    BoardMeeting -- BoardMember
    Location -- Event
    
```

Diagram illustrating the implementation of use relationships (--) between AAUOC and Event, Location, and Person. The diagram also shows inheritance relationships: Event is a base class for Conference and BoardMeeting; Person is a base class for Member and BoardMember. Use relationships are shown between Conference and Person, Event and Member, BoardMeeting and BoardMember, and Location and Event.



Profile page for RADWANE ADESSAMIE, showing navigation links (meua, Events, pàgina, inicial), profile information (Sobre mi, Cursos, Més, Editar el perfil), and a description section.

7. Añadimos los métodos y atributos de las clases definiendo su tipo y sus parámetros

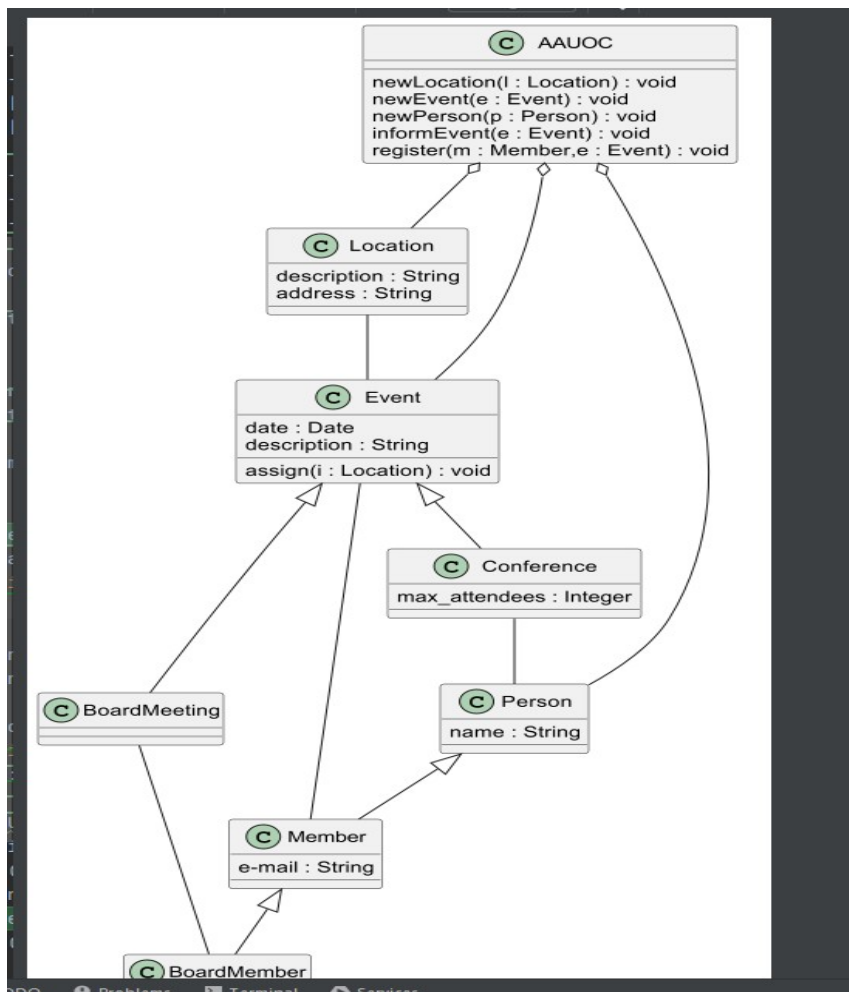
```

classDiagram
    class Person {
        name : String
    }
    class Member {
        e-mail : String
    }
    class Event {
        date : Date
        description : String
        assign(i : Location) : void
    }
    class Conference {
        max_attendees : Integer
    }
    class Location {
        description : String
        address : String
    }
    class AAUOC {
        newLocation(l : Location) : void
        newEvent(e : Event) : void
        newPerson(p : Person) : void
        informEvent(e : Event) : void
        register(m : Member, e : Event) : void
    }
    Person <|-- Member
    Event <|-- Conference
    AAUOC o-- Event
    AAUOC o-- Location
    AAUOC o-- Person
    
```

La asociación necesitará un conjunto de métodos para añadir nuevos eventos, personas y localizaciones al sistema (método newX de la clase AAUOC), así como también un método para informar a los miembros de la convocatoria de un evento (método informEvent). Al mismo tiempo, se dice que los usuarios necesitarán confirmar la asistencia a los eventos (método register, que deberá almacenar los asistentes por orden y controlar el número máximo de éstos si fuera necesario).

4) Inclusión de la cardinalidad y navegabilidad de las relaciones

En el siguiente diagrama, se han eliminado los métodos e incluido las navegabilidades (en este caso, todas son bidireccionales, debido a que no se nos ha comu-



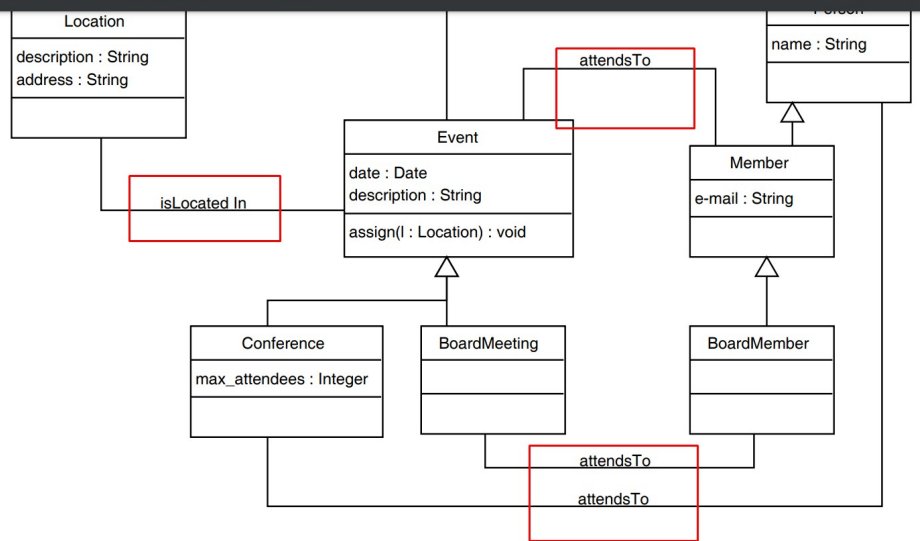
8. Para añadir las siguientes etiquetas que están sobre las líneas de relaciones, se debe poner :
 “etiqueta” después del nombrado de la relación.

que los usuarios necesiten asistencia a los eventos deberá almacenar los datos necesarios para controlar el número de asistentes a cada evento (según sea necesario).

Finalidad y navegabilidad.

En este caso, se han eliminado las navegabilidades

bidireccionales. debido a que no se nos ha comunicado.



```

1  https://plantuml.com/class-diagram
2
3  classDiagram
4      class Member
5      class BoardMember
6      class Event
7      class Conference
8      class BoardMeeting
9      class Location
10
11  Event <|-- Conference
12  Event <|-- BoardMeeting
13  Person <|-- Member
14  Member <|-- BoardMember
15
16  AAUOC o-- Event
17  AAUOC o-- Location
18  AAUOC o-- Person
19
20  Conference --> Person : attendsTo
21  BoardMeeting --> BoardMember : attendsTo
22  Location --> Event : isLocated In
23
24  class Person {
25      name : String
26  }
27
28  class Member {
29      e-mail : String
30  }
31
32  class Event {
33      date : Date
34      description : String
35      assign(l : Location) : void
36  }
37
38  class Conference {
39      max_attendees : Integer
40  }
41
42  class Location {
43      description : String
44  }
    
```

The screenshot shows a web application interface for a user profile. The user is RADWANE ABDESSAMIE. The profile includes a header with navigation links (La meua pàgina, inicial), a profile picture, and a description. Below the profile, there is a UML diagram showing the same classes and relationships as the one in the previous image. The diagram is titled "RADWANE ABDESSAMIE" and shows the classes Location, Event, Member, Conference, BoardMeeting, and BoardMember with their attributes and relationships.

9. Para añadir las etiquetas que nos definen la cardinalidad entre clases , se debe añadir de esta manera: Clase1 “0..*” “token de relación” “0..*” Clase2

The image shows a development environment with two main windows. The left window is a code editor showing UML class diagram code for a project named 'diagramaClassesUML'. The code defines classes: `Member`, `BoardMember`, `Event`, `Conference`, `BoardMeeting`, and `Location`. It also includes associations with multiplicities and roles, such as `Conference "0..*" -- "0..*" Person : attendsTo` and `Event "0..*" -- "0..*" Member : attendsTo`. A red box highlights a specific association line in the code. The right window displays a web browser with a user profile page for 'RADWANE ABDESSAMIE' and a PDF viewer showing a UML class diagram. The PDF diagram visually represents the classes and associations defined in the code, with a red box highlighting the same association line as in the code editor.

RESULTADO FINAL

