

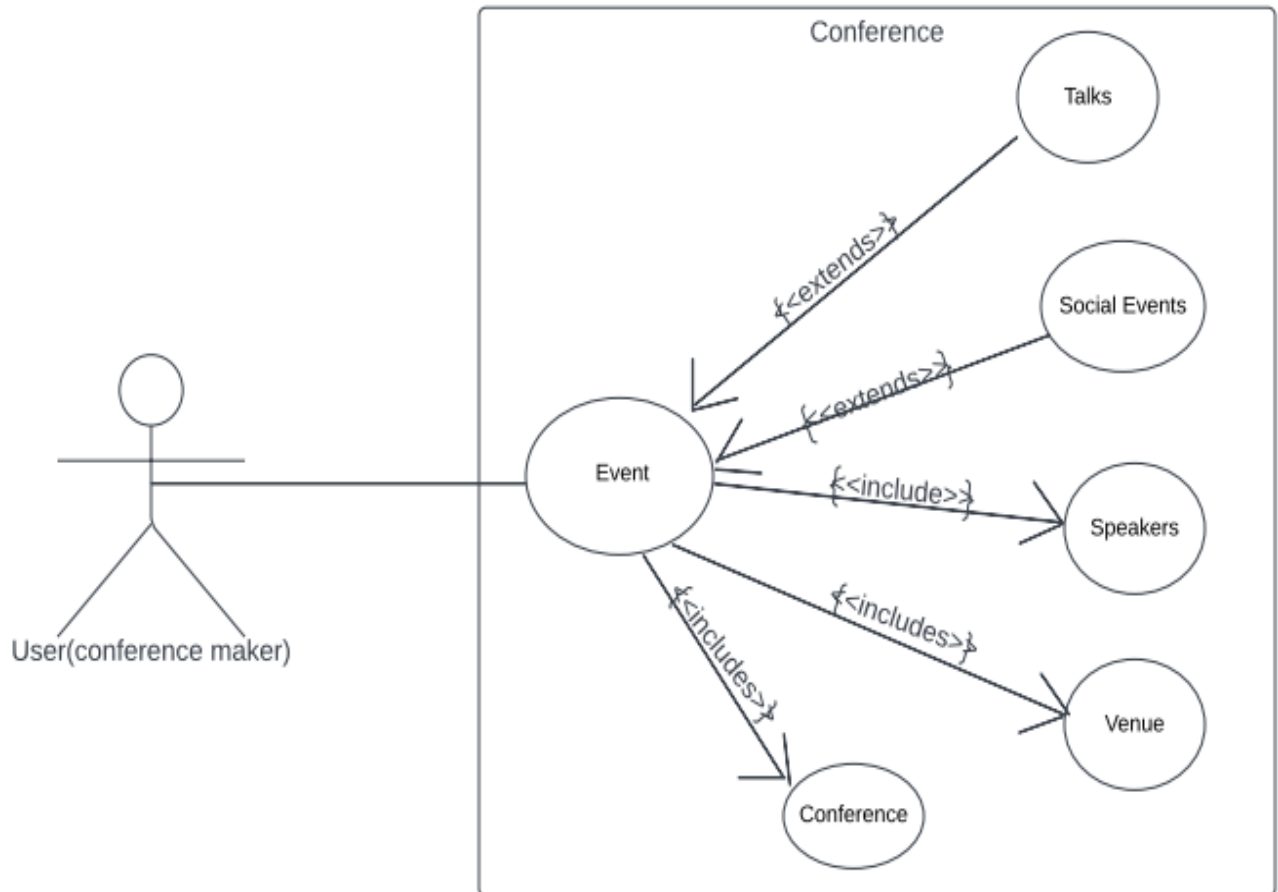
CS12320 – MINI ASSIGNMENT 3

CONFERENCE APP

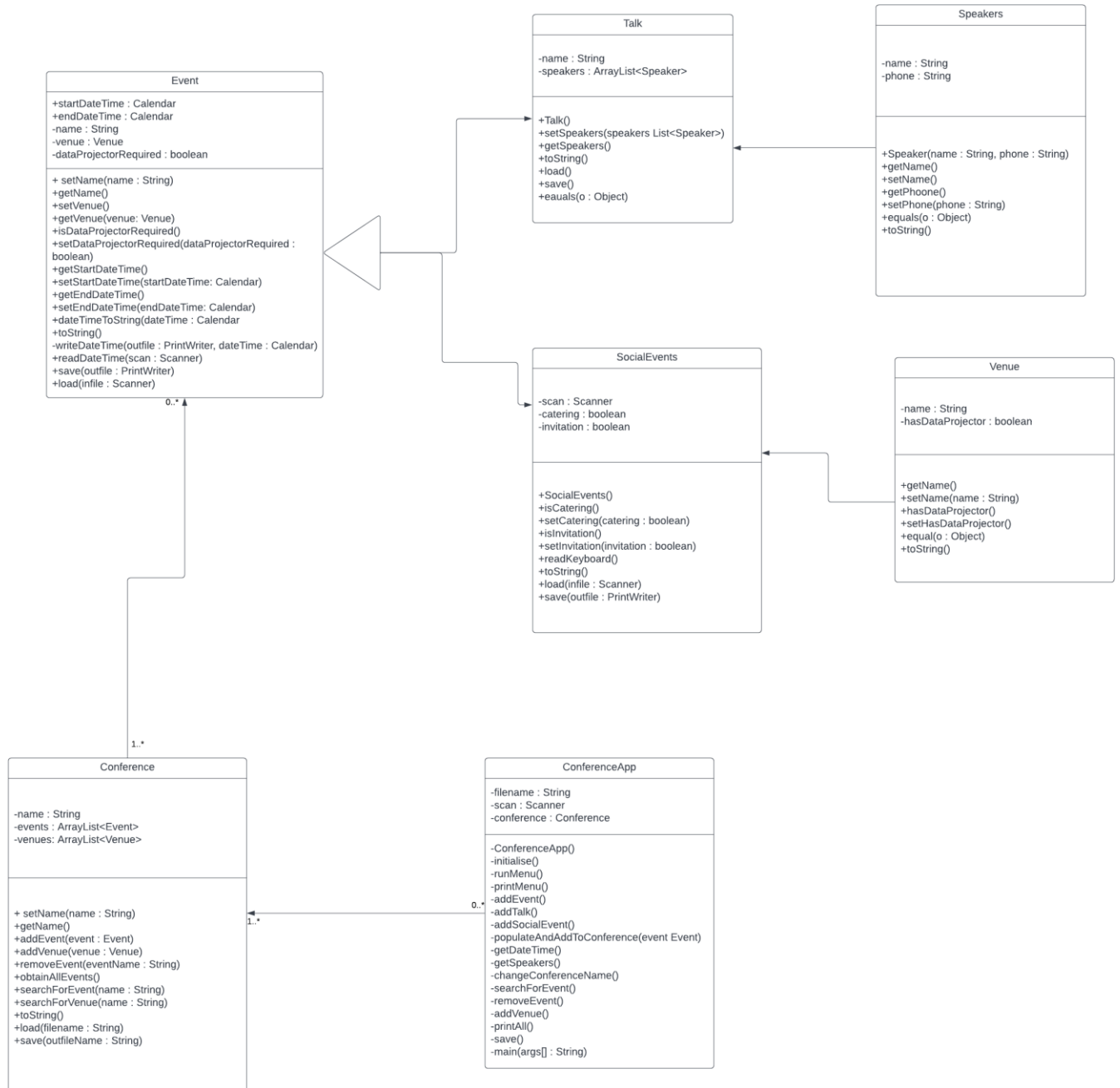
JAMAINÉ CHRISTIAN JAC105@ABER.AC.UK

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UML USE-CASE DIAGRAM



UML CLASS DIAGRAM



DESCRIPTION OF IMPLEMENTATION

At first, I focused on refactoring the Conference class by writing code for the `obtainAllEvents()` method, I copy and pasted the code from `Talk.getSpeakers()` and changed everything that said `speaker` to `talk` because this was my only event type at the time. I then created `searchForTalk()` and `searchForVenue()` by using a for-each loop to go through the array lists and match the user's input to the name of each object. Afterwards, I changed the `toString()` to a `StringBuilder` so I can concatenate many strings together in a loop.

I then created an `Event` class, which became my superclass, I cut and pasted any variable/method from `Talk` that would be present in both `Talk` and `SocialEvents` and also added a `load` and `save` methods here. I tried to implement an if statement using `compareTo()` to compare the `startDateTime` and `endDateTime` to make sure an event started before it finished however this did not work.

Afterwards, I created my `SocialEvents` class and made sure it extended `Event`, I also extended `Event` onto `Talks`. I created two Boolean variables (`invitation` & `catering`) and generated their getters and setters. I then made a `readKeyboard()` method that asks the user to decide whether catering is required and if the social event is invite-only or not and then set the Boolean values accordingly. In addition, I created a `toString()` method that describes the event type then concatenates `super.toString()` to implement `Event's toString()` method and then concatenates the information about the social event i.e. if catering is required or if the social event is invite-only. I also made a new `load()` method and `save()` method, these implemented `super.load()` and `super.save()` respectively, so the information from the `Event` superclass was saved too. I then went back to the `Talk` class and implemented it there too.

At this point, I went back to the conference app and replaced every method that used `Talk` to `Event` so it can deal with both types of events. For the `obtainAllEvents()` this did not seem to work at all and I did not manage to fix this. I added a switch statement inside my `conference.load()` function to

be able to create either a new talk Event or social Event, however, I had problems with loading my data after it had been saved and I think this could possibly be the issue but wasn't able to resolve it.

Finally, I went to my ConferenceApp class and created a new addSocialEvent() method so I can add a new social event to the conference. I then made another method called addEvent(), which implemented an if statement so you can choose which event you want to add. This made my runMenu() simpler, rather than me having a lot of different cases. I changed every method that took a Talk to take an Event instead. When running the program I realised I had an error that didn't take the user's input correctly. I realised this was due to scan.nextInt(), which leaves the cursor for reading input on the same line as the integer so I used scan.nextLine() to fix this.

I believe this assignment went well although certain aspects didn't work. I got most of the functionality down therefore, I believe I deserve a mark of 70.

SCREENSHOTS

```
3 - search for a talk
4 - remove a talk
5 - change conference name
6 - display everything
q - Quit
What would you like to do:
1
  press 1 for a talk and 2 for a social event
1
Get speakers:
Enter on separate lines: speaker-name speaker-phone
jamaine
0798
Another owner (Y/N)?
y
Enter on separate lines: speaker-name speaker-phone
allanSugar
079899
Another owner (Y/N)?
n
Event name:
jamaineTalksPoo
Enter start time for event
On one line (numbers): year month day hour minutes
|
```

This screenshot shows the add event functionality of the menu and that it works and does not have the error of not reading users input correctly

```
1 - add a new Event
2 - add a venue
3 - search for an event
4 - remove an event
5 - change conference name
6 - display everything
7 - obtain all events
q - Quit
What would you like to do:
3
Which talk do you want to search for
party
The event party exists

eventType= Social Event , startDateTime=2003:8:20:20, endDateTime=2004:8:20:20, name='party', venue=Venue{name='jcp', hasDataProjector=false}, dataPr
1 - add a new Event
2 - add a venue
3 - search for an event
4 - remove an event
5 - change conference name
6 - display everything
7 - obtain all events
q - Quit
What would you like to do:
|
```

Control Run TODO Problems Build Profiler Terminal Event Log

This screenshot shows that my search for an event option is running correctly

```
What would you like to do:
3
Data in Conference hello is:

eventType=Talk , startDateTime=2002:12:12:12, endDateTime=2003:12:12:12, name='jamaineTalksPoo', venue=Venue{name='jamaineVenue', hasDataProjector=tr

eventType= Social Event , startDateTime=2004:12:12:12, endDateTime=2005:12:12:12, name='jamainesBdayBash', venue=Venue{name='jamaineVenue', hasDataPr

1 - add a new Event
2 - add a venue
3 - search for a talk
4 - remove a talk
5 - change conference name
6 - display everything
q - Quit
What would you like to do:
```

This Screenshot shows that my display everything option of my menu is running correctly.

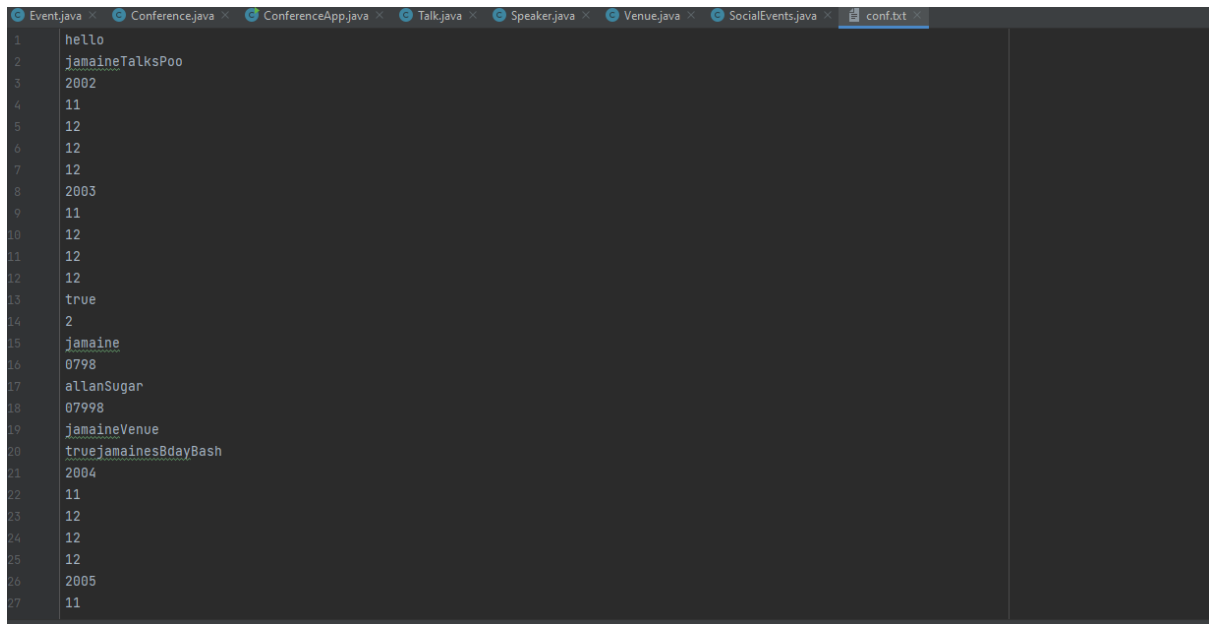
```
What would you like to do:
1
  press 1 for a talk and 2 for a social event
2
Is catering required? (yes/no)
yes
Is it invitation only? (yes/no)
no
Event name:
jamainesBdayBash
Enter start time for event
On one line (numbers): year month day hour minutes
2004 12 12 12 12
The date/time you entered was: 2004/12/12:12:12
Enter end time for event
On one line (numbers): year month day hour minutes
2005 12 12 12 12
The date/time you entered was: 2005/12/12:12:12
Is a data projector required?(Y/N)
n
Enter venue name
jamaineVenue
The venue jamaineVenue is now your selected venue for this event
1 - add a new Event
2 - add a venue
```

This screenshot shows that add a social event works, however I have not shown here that if the endDateTime starts before the startDateTime it does not throw an error and will still run


```
What would you like to do:
4
Which event do you want to remove
jamainesTalk
removed
    eventType=Talk , startDateTime=2003:8:20:20:20, endDateTime=2004:8:20:20:20, name='jamaines
1 - add a new Event
2 - add a venue
3 - search for an event
4 - remove an event
5 - change conference name
6 - display everything
7 - obtain all events
q - Quit
What would you like to do:
4
Data in Conference hello is:

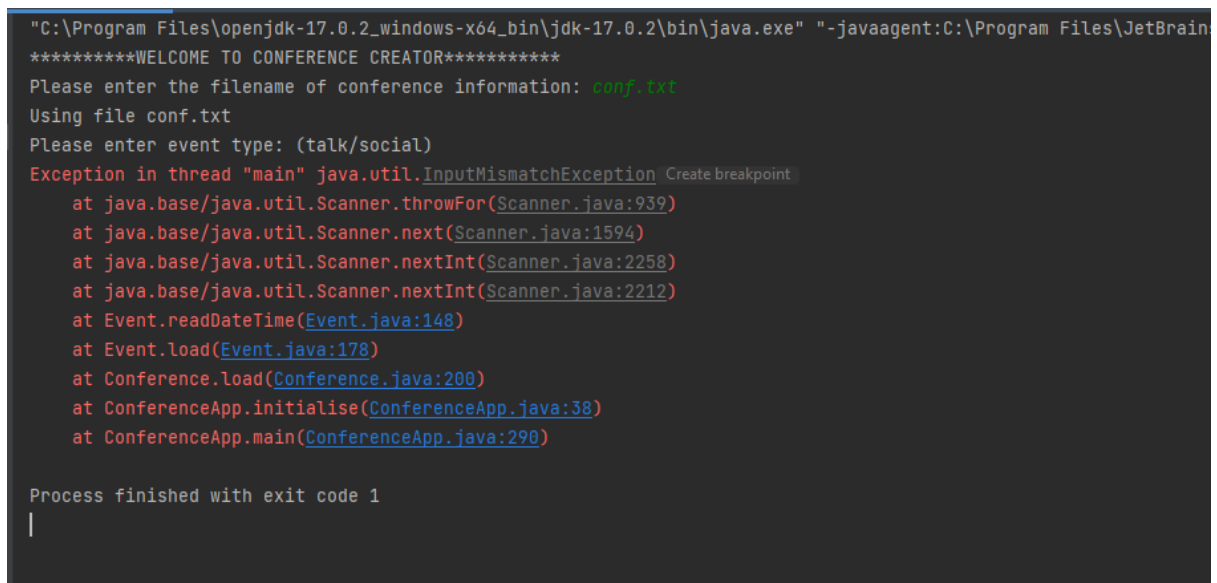
1 - add a new Event
2 - add a venue
3 - search for an event
4 - remove an event
Control Run TODO Problems Build Profiler Terminal
```

This screenshot shows that removing an event works correctly



```
1 hello
2 jamaïneTalksPoo
3 2002
4 11
5 12
6 12
7 12
8 2003
9 11
10 12
11 12
12 12
13 true
14 2
15 jamaïne
16 0798
17 allanSugar
18 07998
19 jamaïneVenue
20 truejamaïnesBdayBash
21 2004
22 11
23 12
24 12
25 12
26 2005
27 11
```

This screenshot shows what my text file looks like after it saves when quitting not everything has gone on its own line and I don't know why this has happened.



```
"C:\Program Files\openjdk-17.0.2_windows-x64_bin\jdk-17.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrain
*****WELCOME TO CONFERENCE CREATOR*****
Please enter the filename of conference information: conf.txt
Using file conf.txt
Please enter event type: (talk/social)
Exception in thread "main" java.util.InputMismatchException
    at java.base/java.util.Scanner.throwFor(Scanner.java:939)
    at java.base/java.util.Scanner.next(Scanner.java:1594)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2258)
    at java.base/java.util.Scanner.nextInt(Scanner.java:2212)
    at Event.readDateTime(Event.java:148)
    at Event.load(Event.java:178)
    at Conference.load(Conference.java:200)
    at ConferenceApp.initialise(ConferenceApp.java:38)
    at ConferenceApp.main(ConferenceApp.java:290)

Process finished with exit code 1
|
```

This is the error message I get when trying to load the text file afterwards, for some reason it isn't reading the correct values at the points and I could not solve this all though you can see the load itself is attempting to run.

```
"C:\Program Files\openjdk-17.0.2_windows-x64_bin\jdk-17.0.2\bin\java.exe" "-javaagen
*****WELCOME TO CONFERENCE CREATOR*****
Please enter the filename of conference information: conf.txt
Using file conf.txt
1 - add a new Event
2 - add a venue
3 - search for a talk
4 - remove a talk
5 - change conference name
6 - display everything
7 - obtain all events
q - Quit
What would you like to do:
7
1 - add a new Event
2 - add a venue
3 - search for a talk
4 - remove a talk
5 - change conference name
6 - display everything
7 - obtain all events
q - Quit
What would you like to do:
|
```

This screenshot shows what happens when I try to run obtain all events and as you can see nothing is happening. I did not manage to resolve this issue.