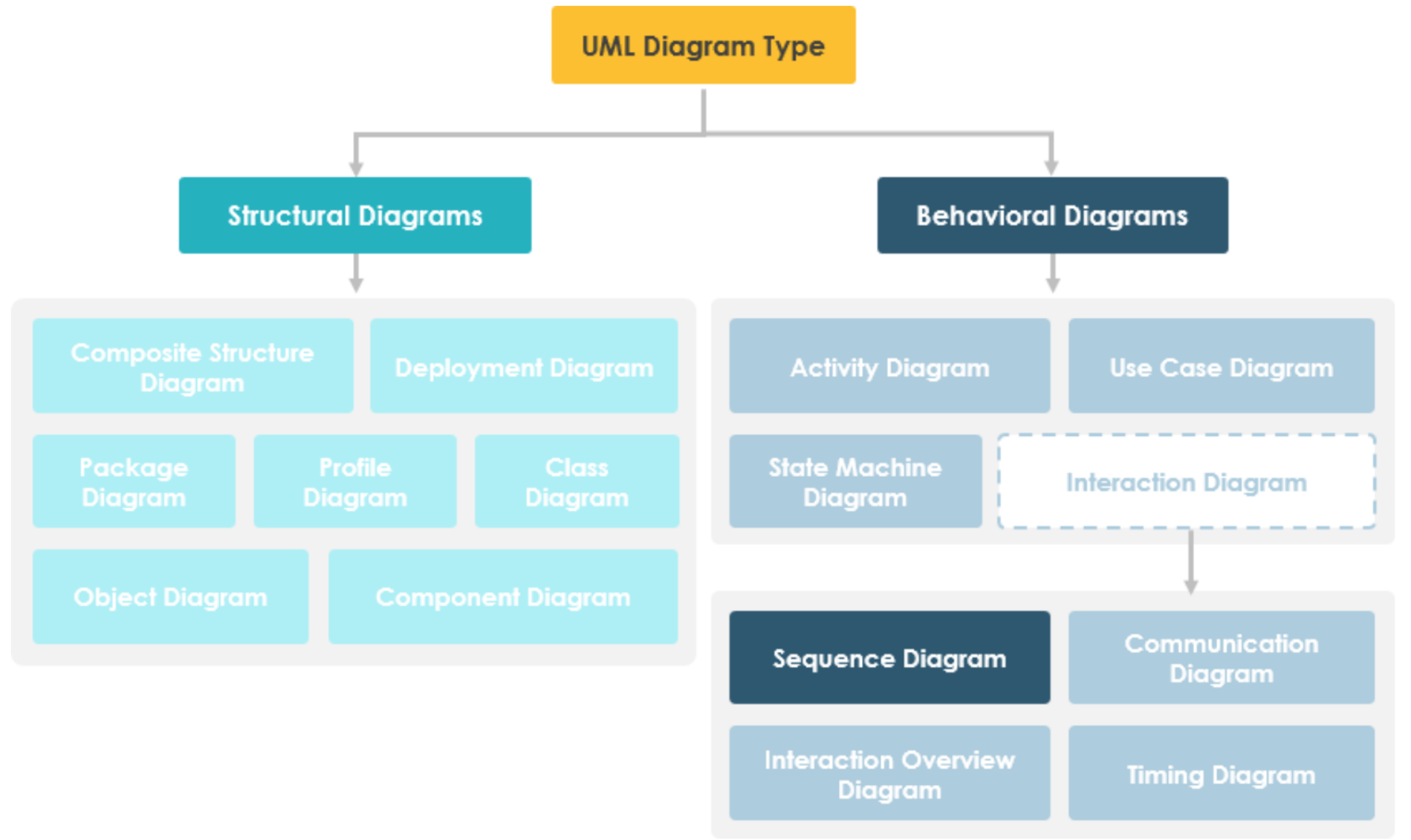


DIAGRAMAS DE SECUENCIA

DIAGRAMAS DE SECUENCIA



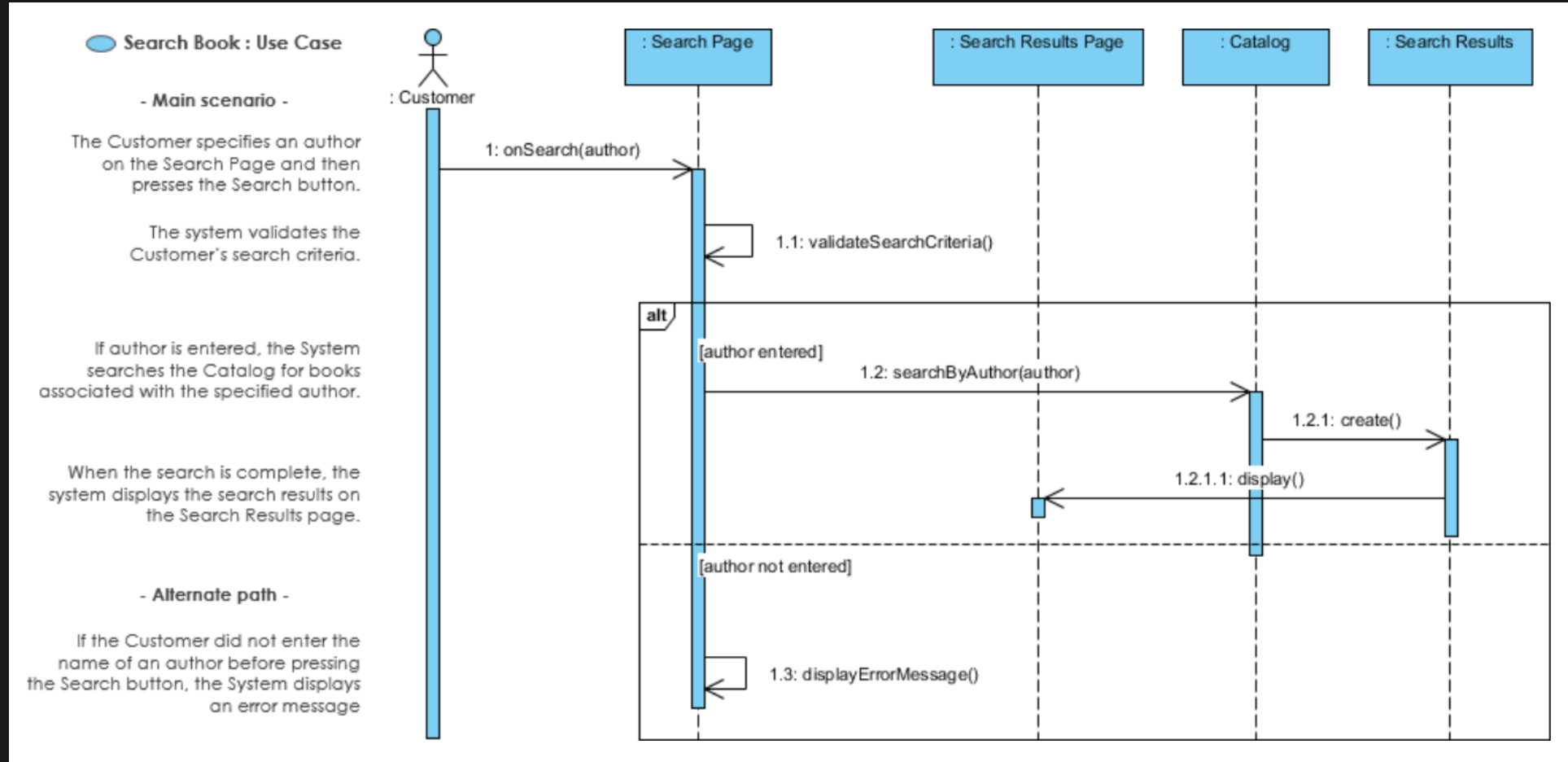
DIAGRAMAS DE SECUENCIA

Es un diagrama de interacción que muestra cómo ocurren las operaciones entre objetos

DIAGRAMAS DE SECUENCIA

- Objetos
- Actores
- Línea de Vida
- Mensajes

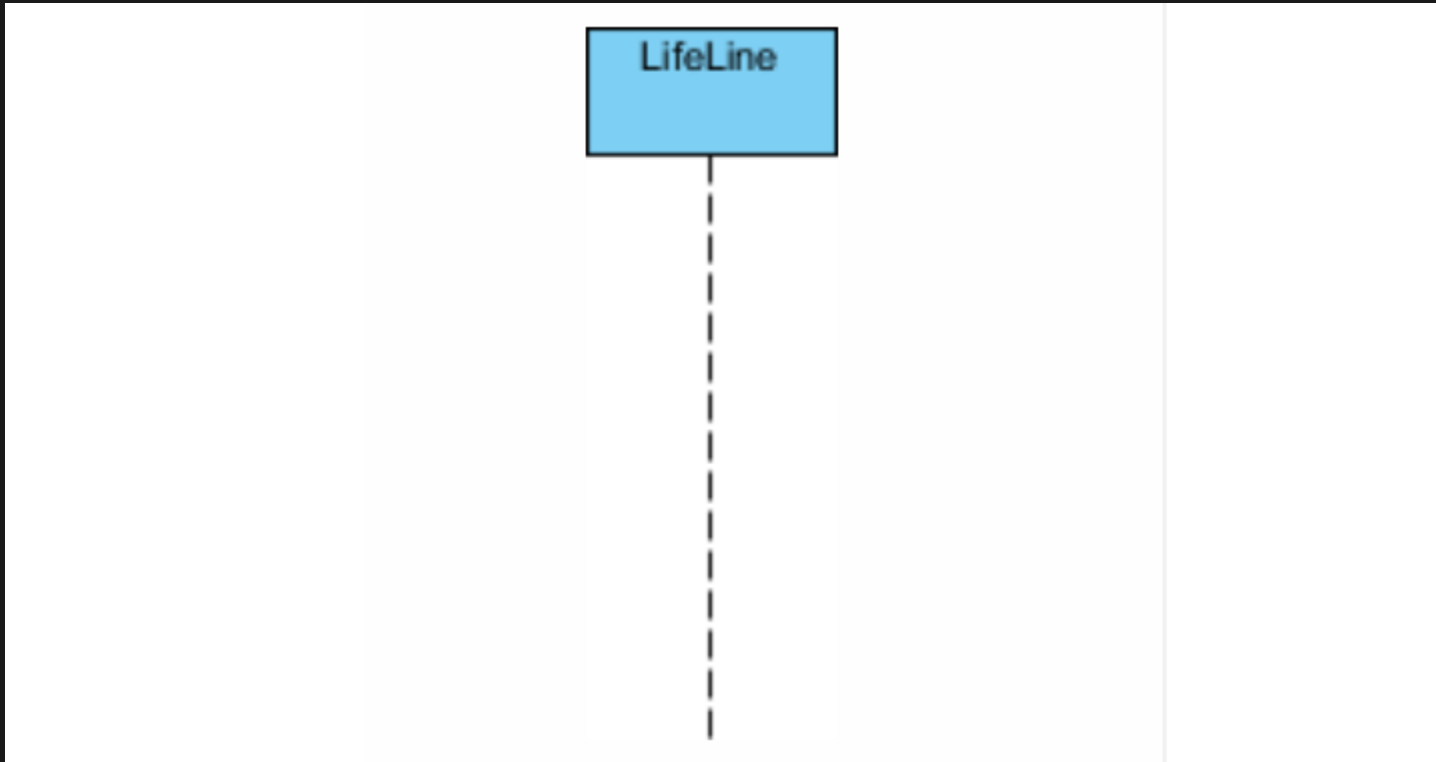
DIAGRAMAS DE SECUENCIA



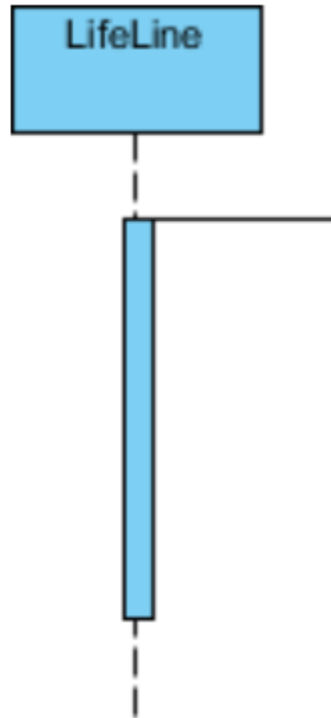
ACTOR



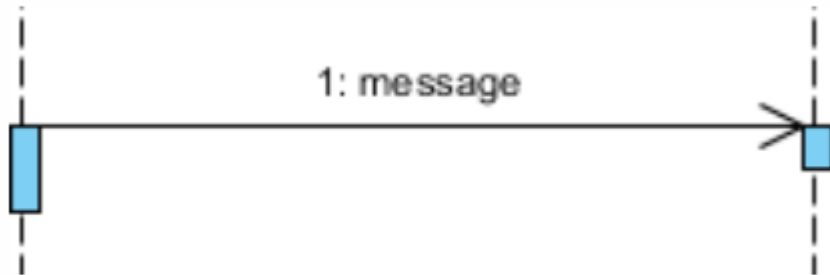
LÍNEA DE VIDA



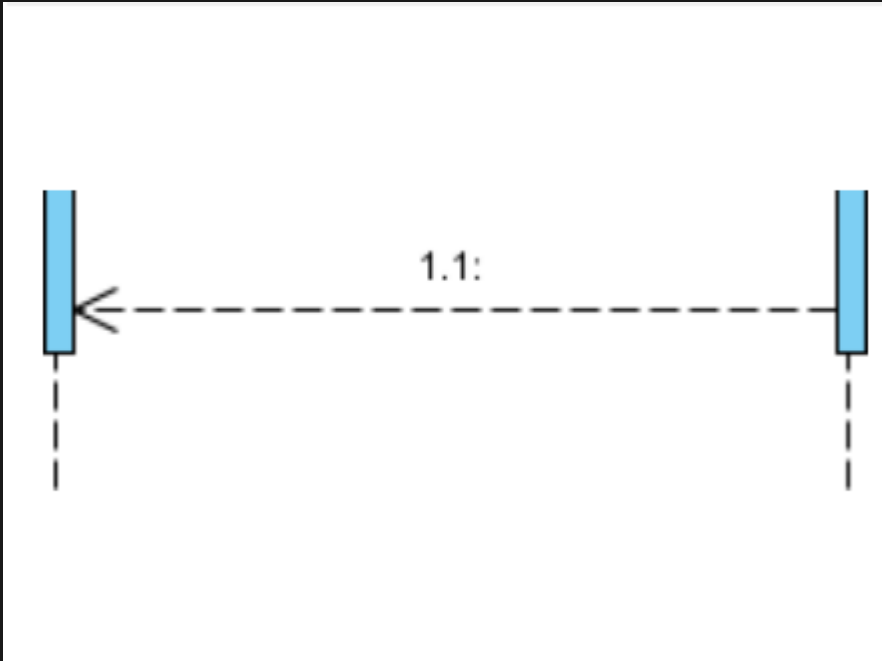
ACTIVACIONES



MENSAJES



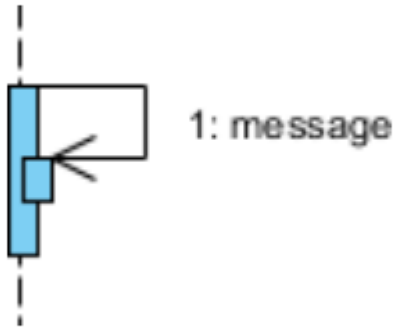
MENSAJES DE RETORNO



AUTO MENSAJES



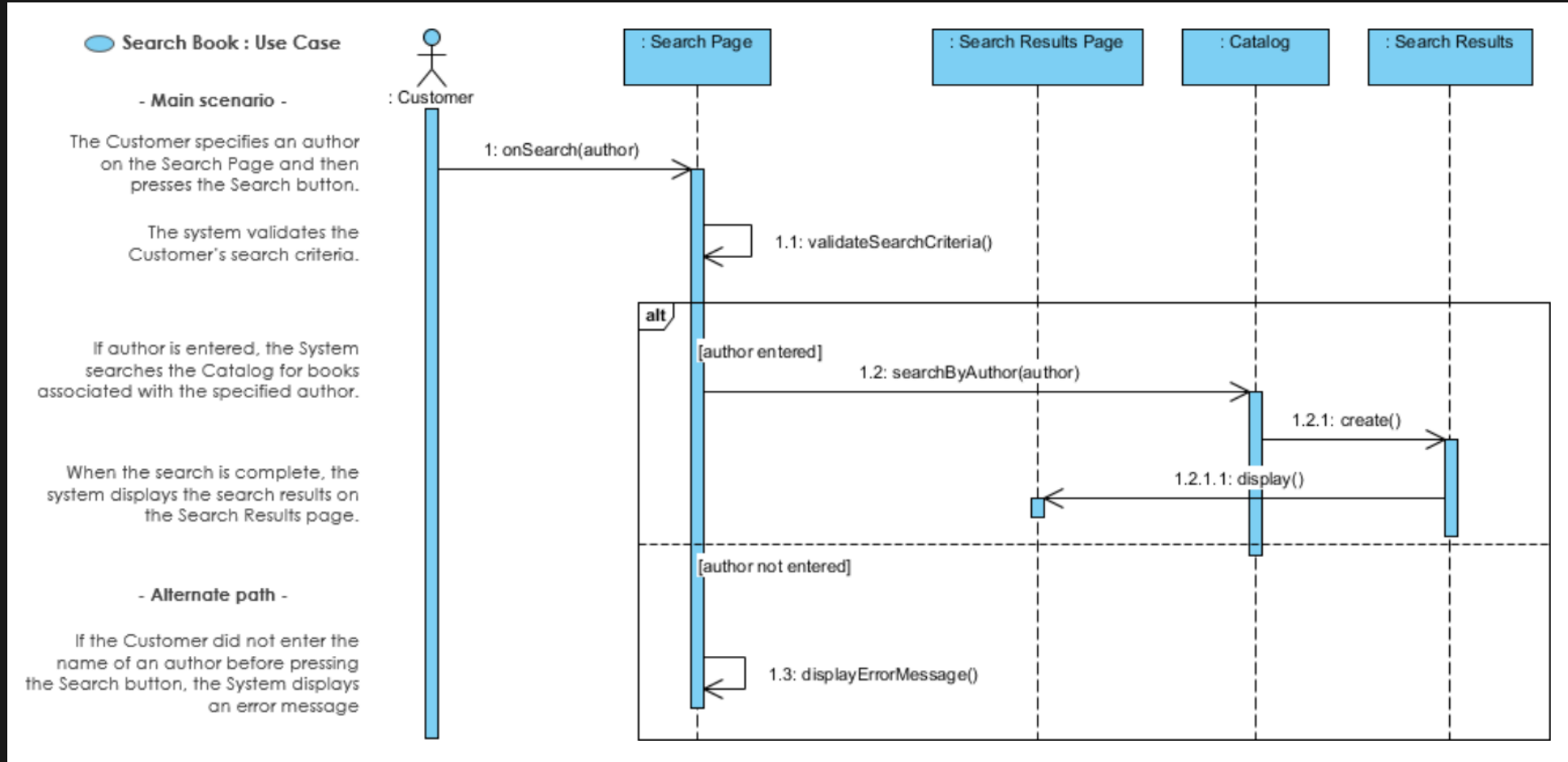
MENSAJES RECURSIVOS



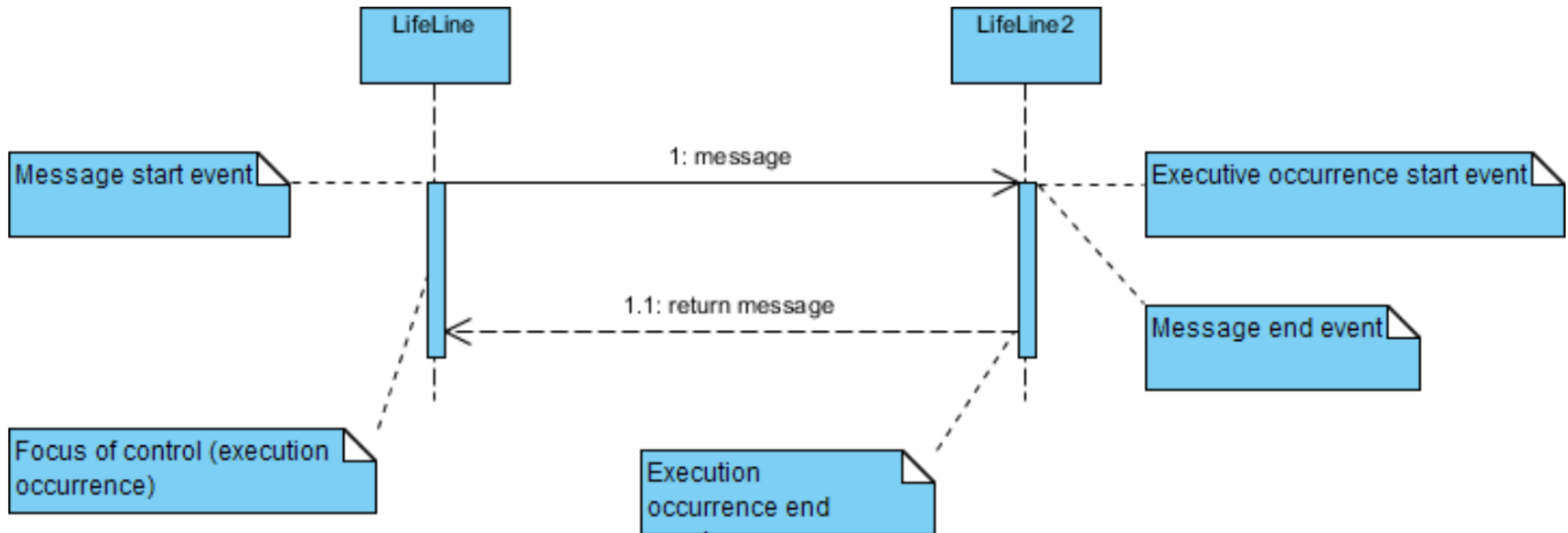
NOTA



DIAGRAMAS DE SECUENCIA



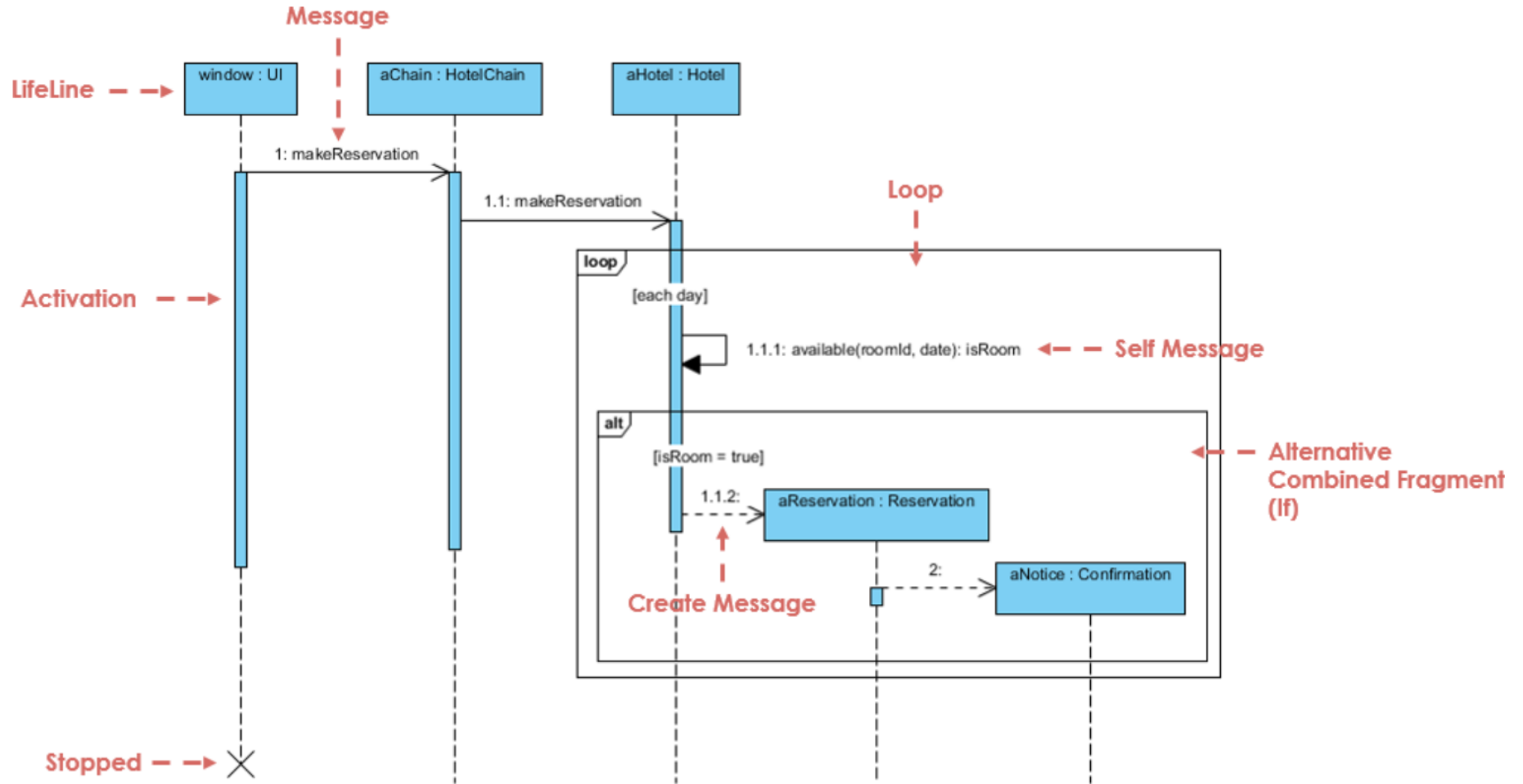
EJEMPLOS



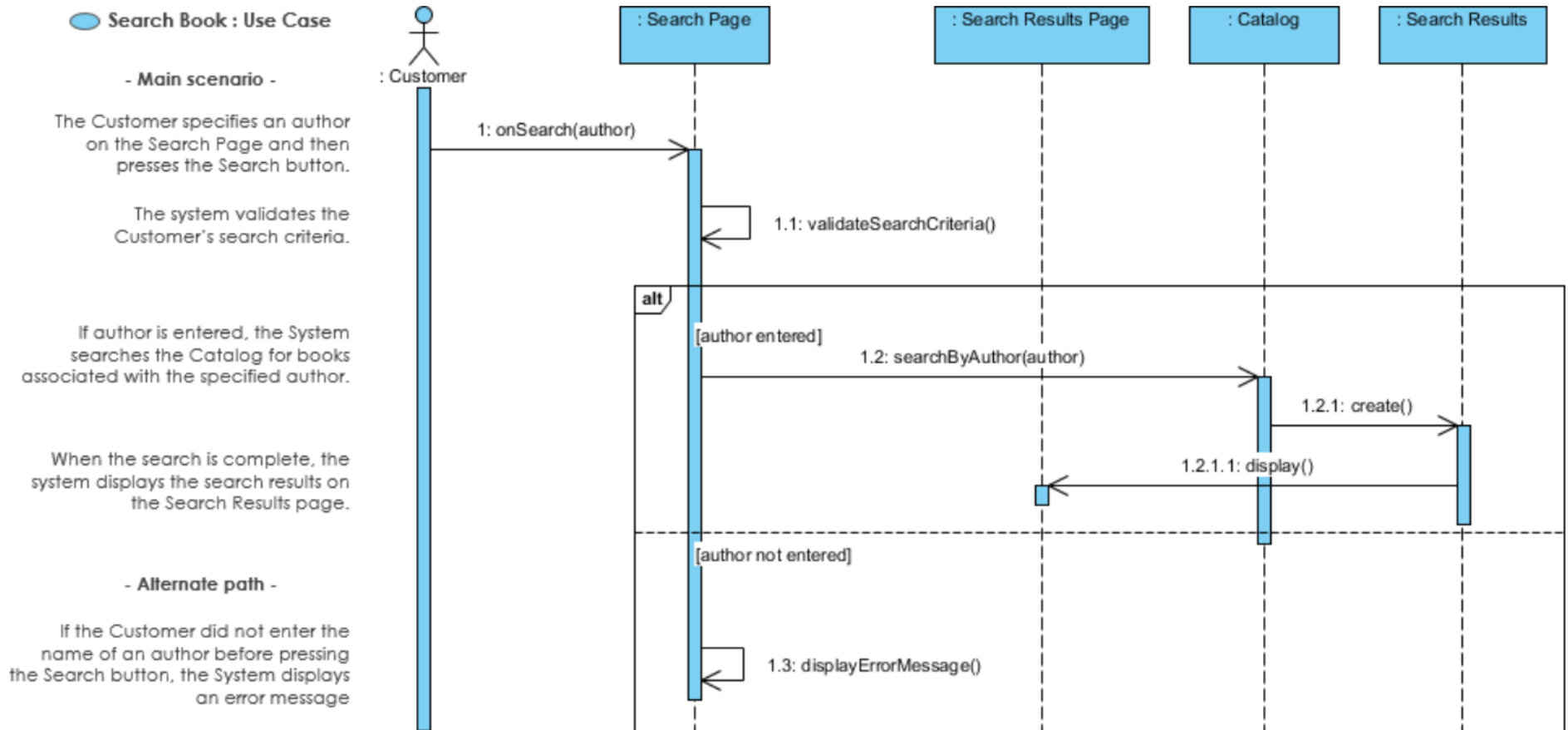
FRAGMENTOS

alt	Alternative multiple fragments: only the one whose condition is true will execute.
opt	Optional: the fragment executes only if the supplied condition is true. Equivalent to an alt only with one trace.
par	Parallel: each fragment is run in parallel.
loop	Loop: the fragment may execute multiple times, and the guard indicates the basis of iteration.
region	Critical region: the fragment can have only one thread executing it at once.
neg	Negative: the fragment shows an invalid interaction.
ref	Reference: refers to an interaction defined on another diagram. The frame is drawn to cover the lifelines involved in the interaction. You can define parameters and a return value.
sd	Sequence diagram: used to surround an entire sequence diagram.

FRAGMENTOS



FRAGMENTOS



EJERCICIO

Diseñar un Diagrama de Secuencia para el juego del laberinto

```
1 public class LabyrinthGame {
2
3     public Labyrinth makeLabyrinth() {
4         Labyrinth labyrinth = new Labyrinth();
5         Room h1 = new Room(1);
6         Room h2 = new Room(2);
7         Door door = new Door(1,2)
8
9         labyrinth.addRoom(h1);
10        labyrinth.addRoom(h2);
11
12        h1.setSide("North", new Wall() );
13        h1.setSide("South", new Wall() );
14        h1.setSide("East", new Wall() );
15        h1.setSide("West", door);
16
17        return labyrinth;
18    }
19
20 }
```

```
1 public class LabyrinthGame {
2
3     public Labyrinth makeAutomaticLabyrinth() {
4         Labyrinth labyrinth = new Labyrinth();
5         Room room;
6
7         for (int i = 0; i < 10; i++){
8             room = new Room();
9
10            if(i == 2 || i == 5 ){
11                room.addWindow(new Window());
12            }
13
14            labyrinth.addRoom(room);
15
16        }
17        return labyrinth;
18    }
19
20 }
```

```
1 public class MainGame {  
2  
3     public static void main( String args[] ) {  
4         LabyrinthGame labyrinthGame = new LabyrinthGame();  
5  
6         labyrinthGame.makeLabyrinth();  
7         labyrinthGame.makeAutomaticLabyrinth();  
8  
9     }  
10  
11 }
```