

# Ingineria Sistemelor de Programare

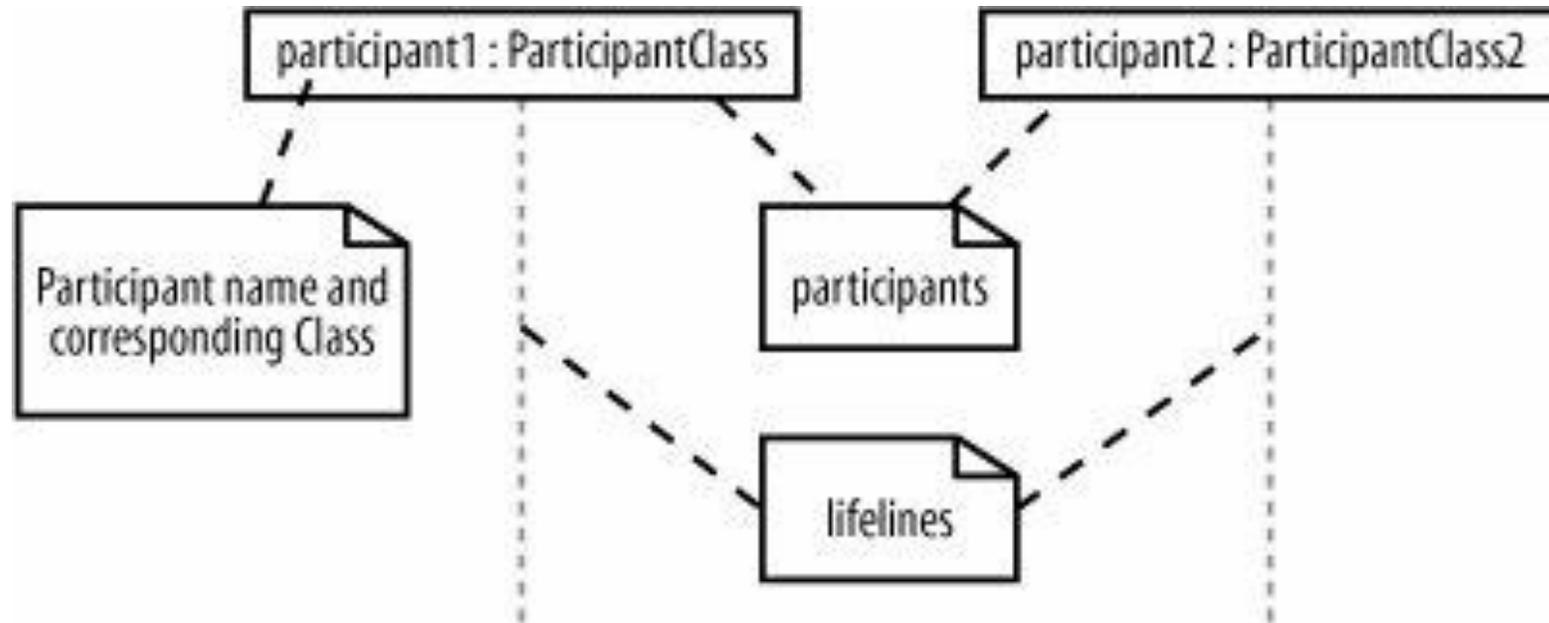
UML – Sequence Diagrams

[mihai.hulea@aut.utcluj.ro](mailto:mihai.hulea@aut.utcluj.ro)

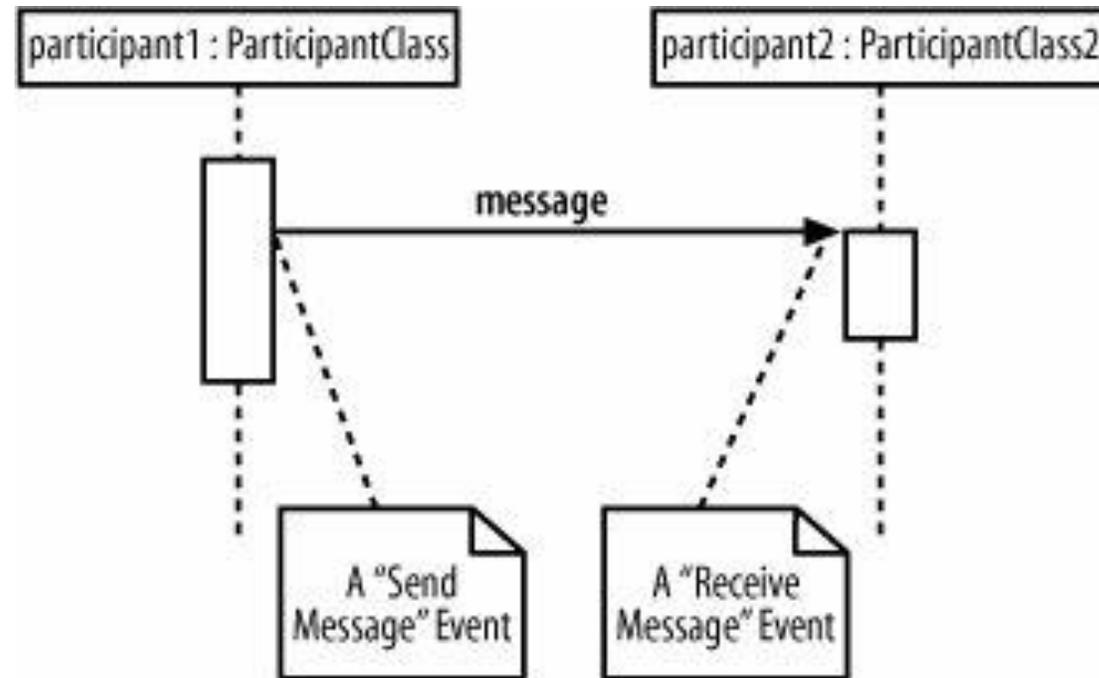
2016

# Principalele elemente

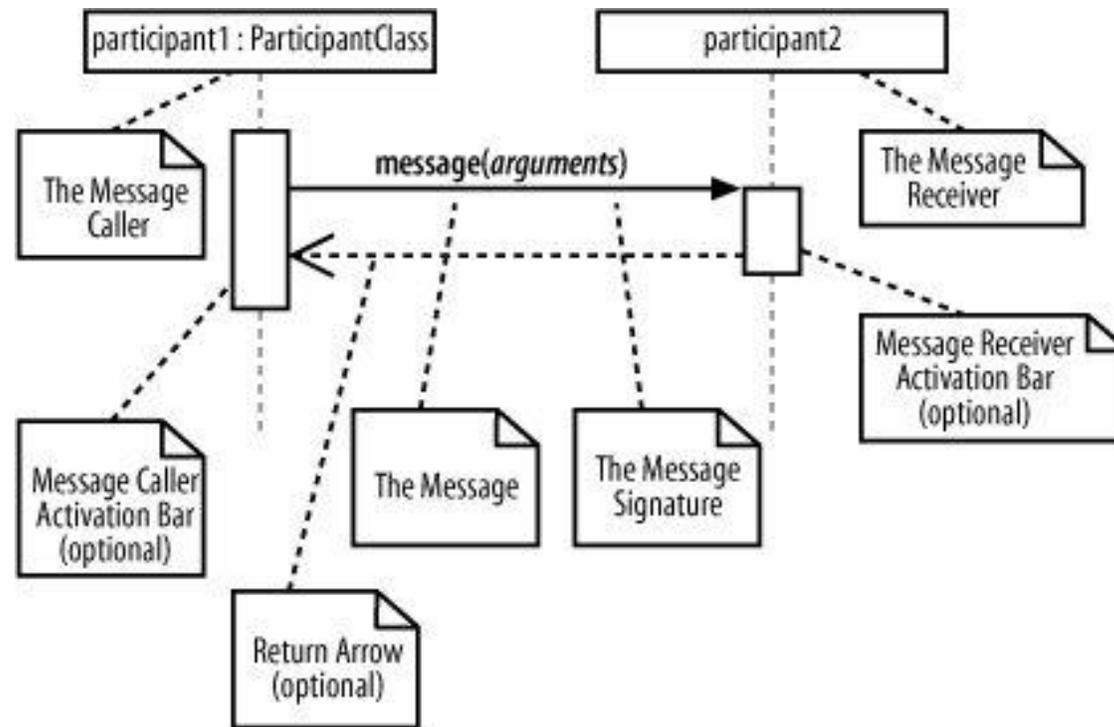
# Participanti



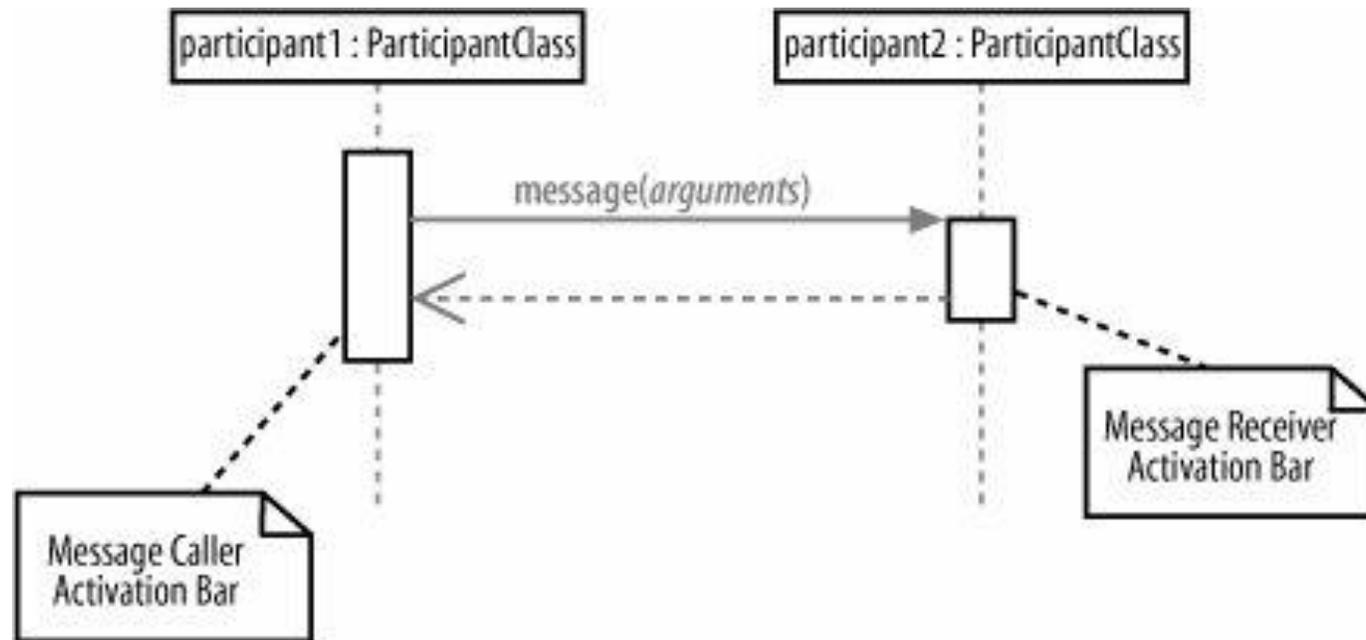
# Evenimente, semnale si mesaje



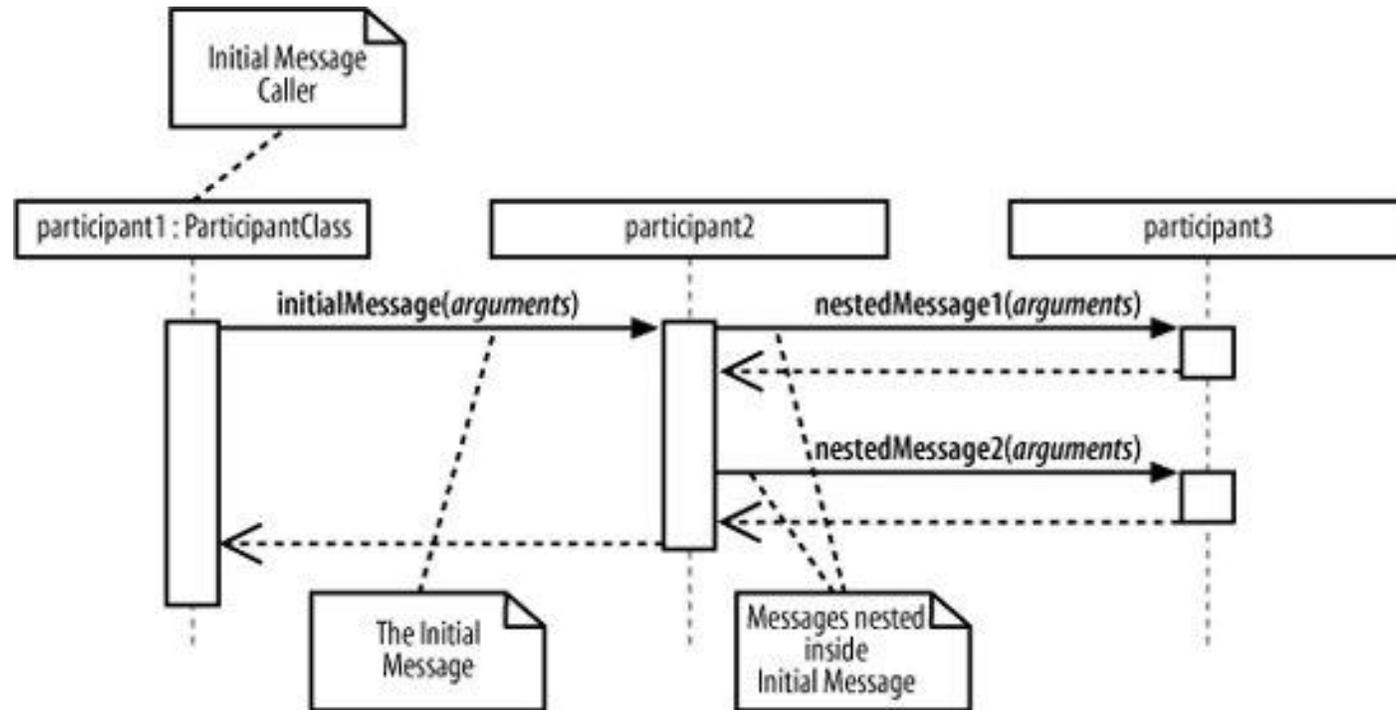
# Interactiuni



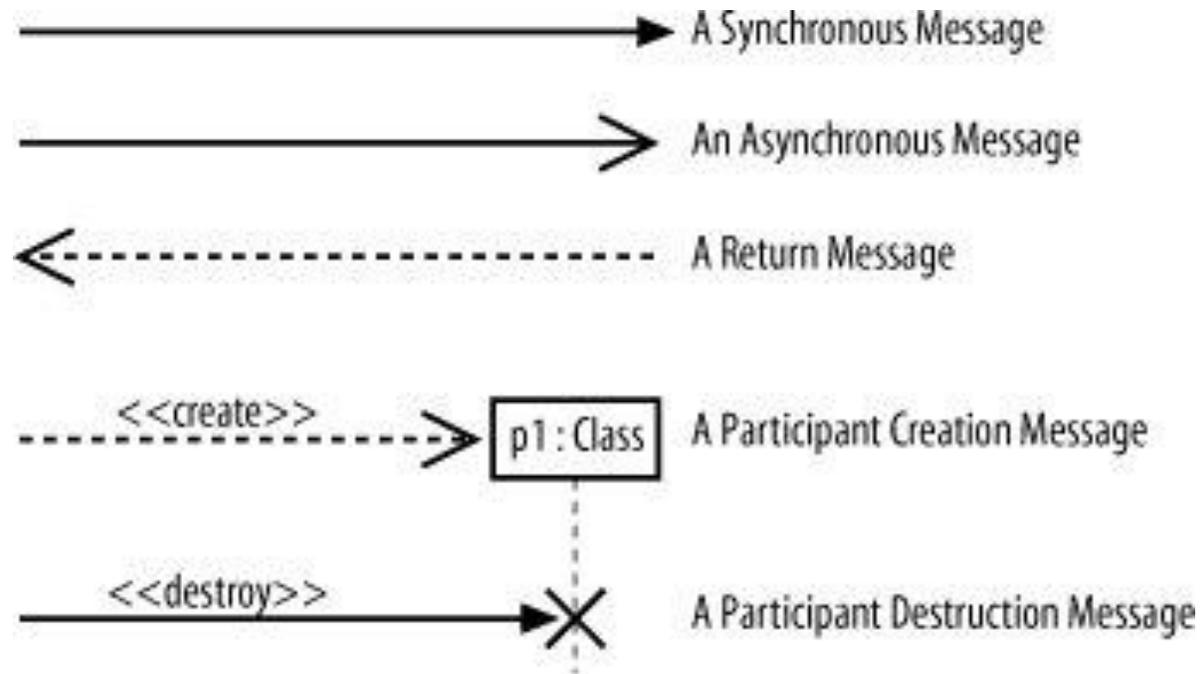
# Bare de activare



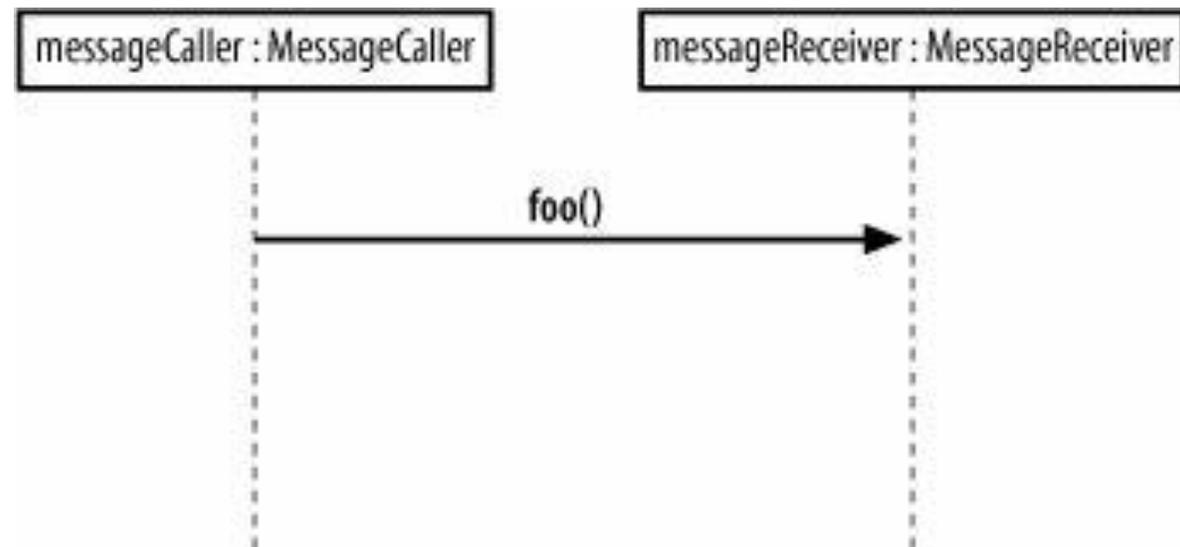
# Mesaje imbricate



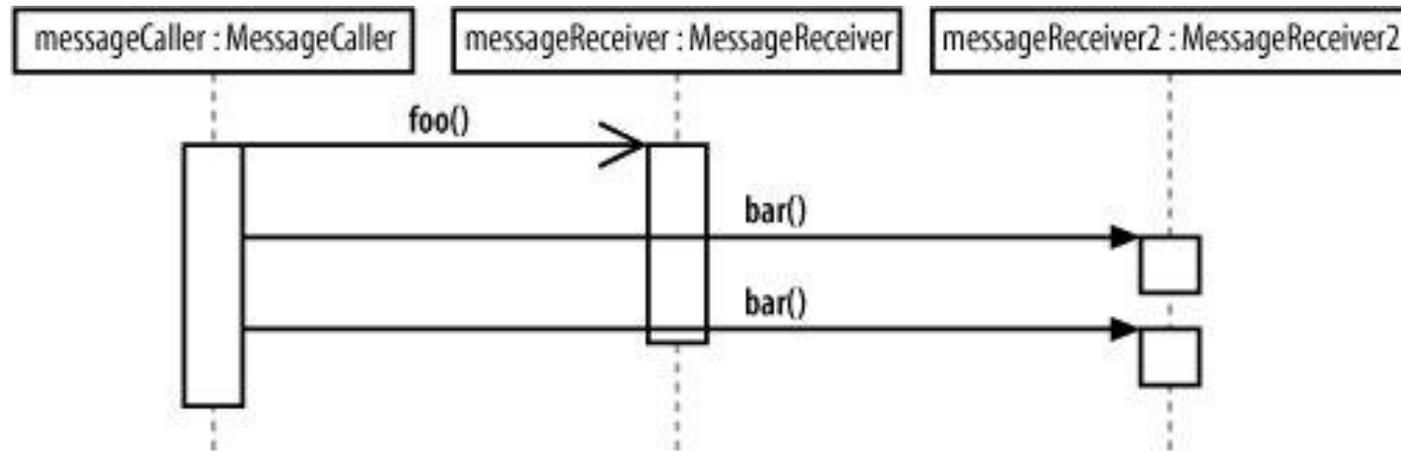
# Tipuri de mesaj



# Mensaje sincrone

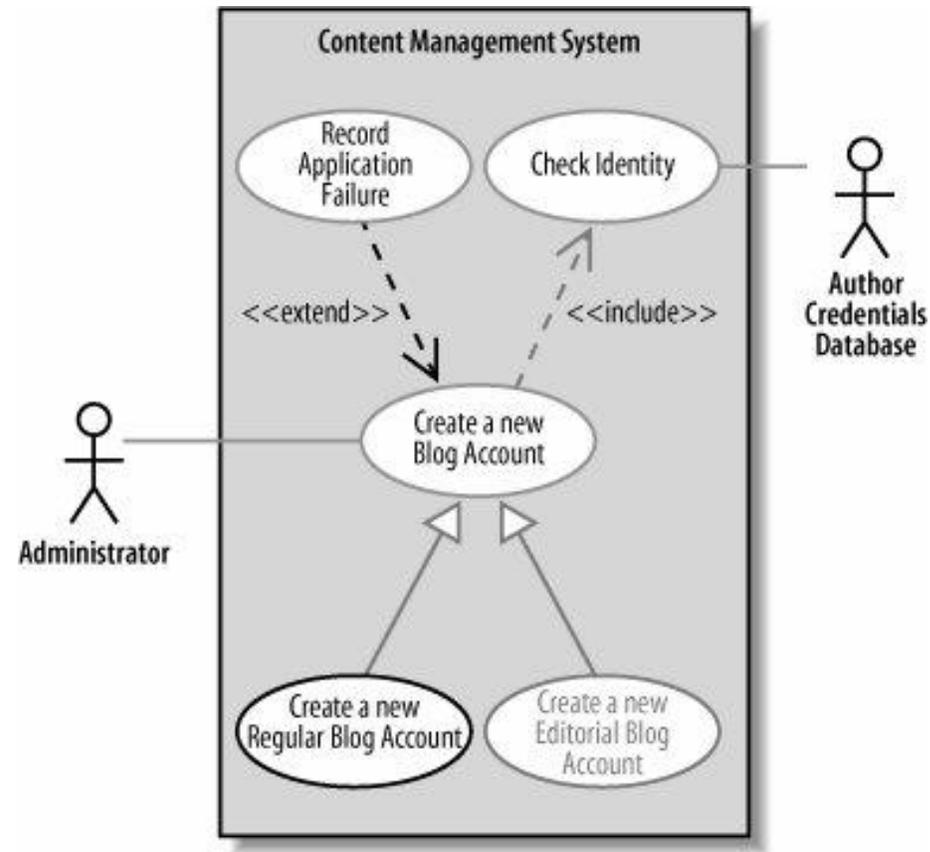


# Mensaje asincrono



# Exemplu

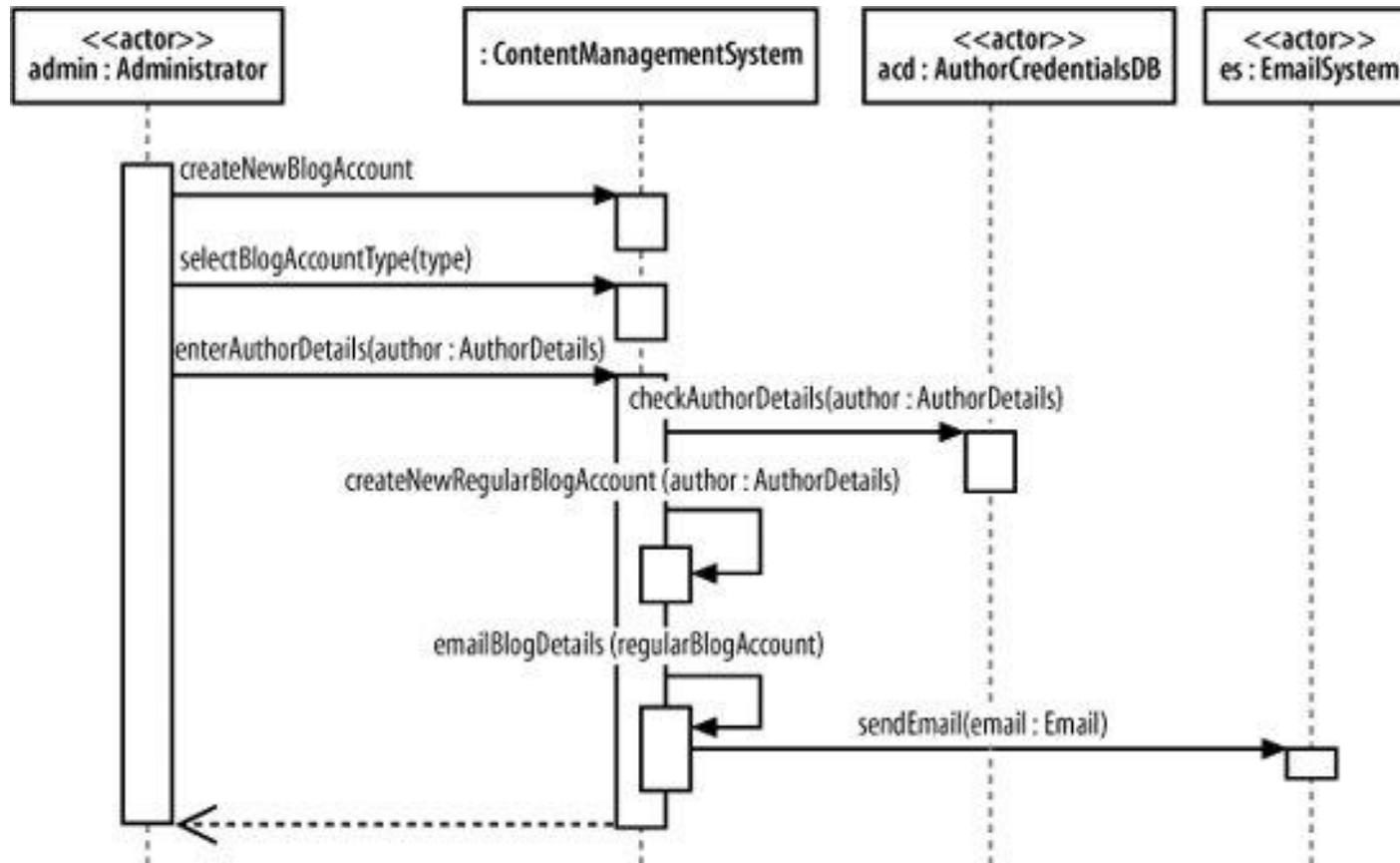
# Content Management System (CMS) – Use Case



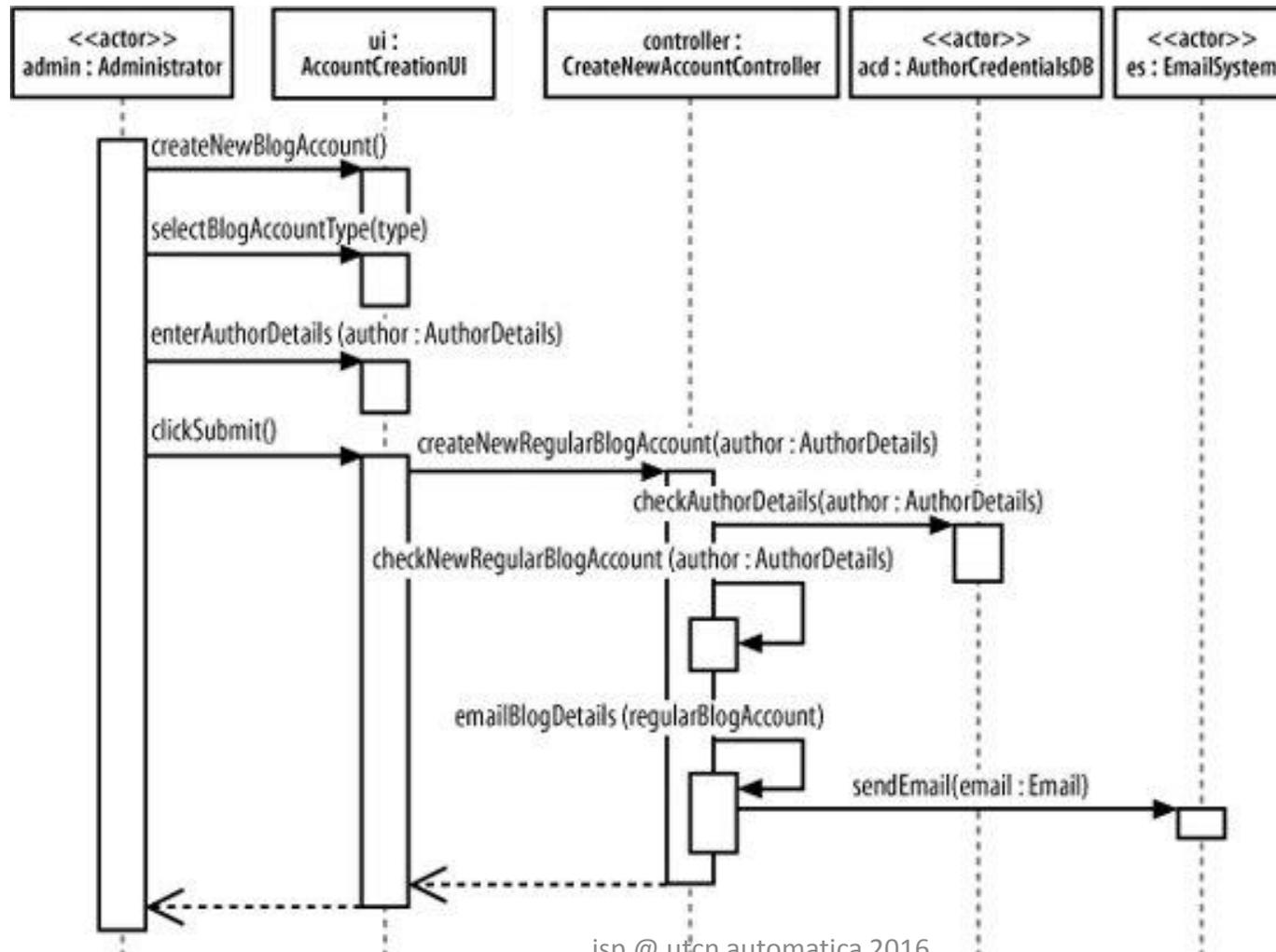
# Actiuni

- The Administrator asks the system to create a new blog account.
- The Administrator selects the regular blog account type.
- The Administrator enters the author's details.
- The author's details are checked using the Author Credentials Database.
- The new regular blog account is created.
- A summary of the new blog account's details are emailed to the author.

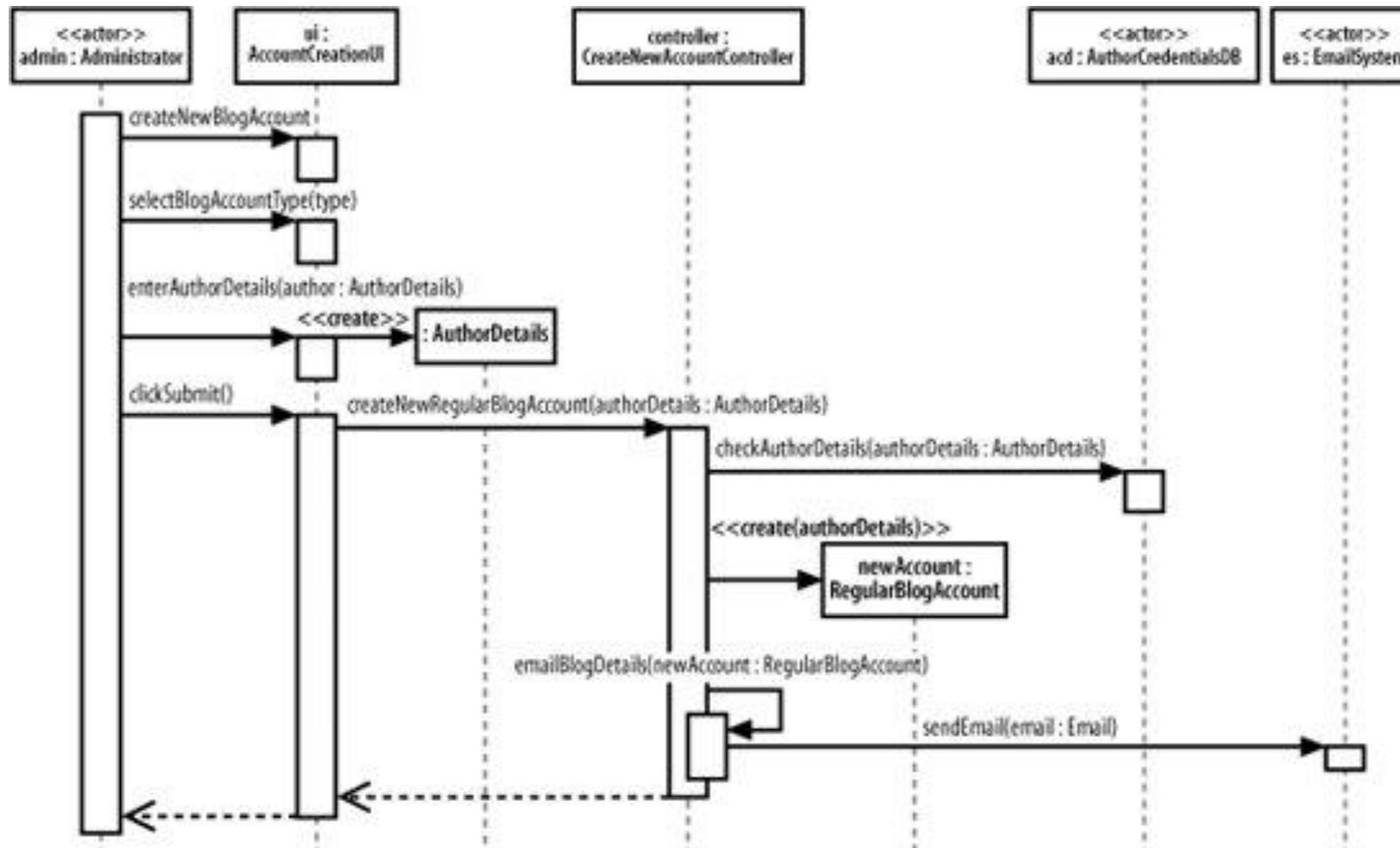
# Diagrama de secvente – varianta 1



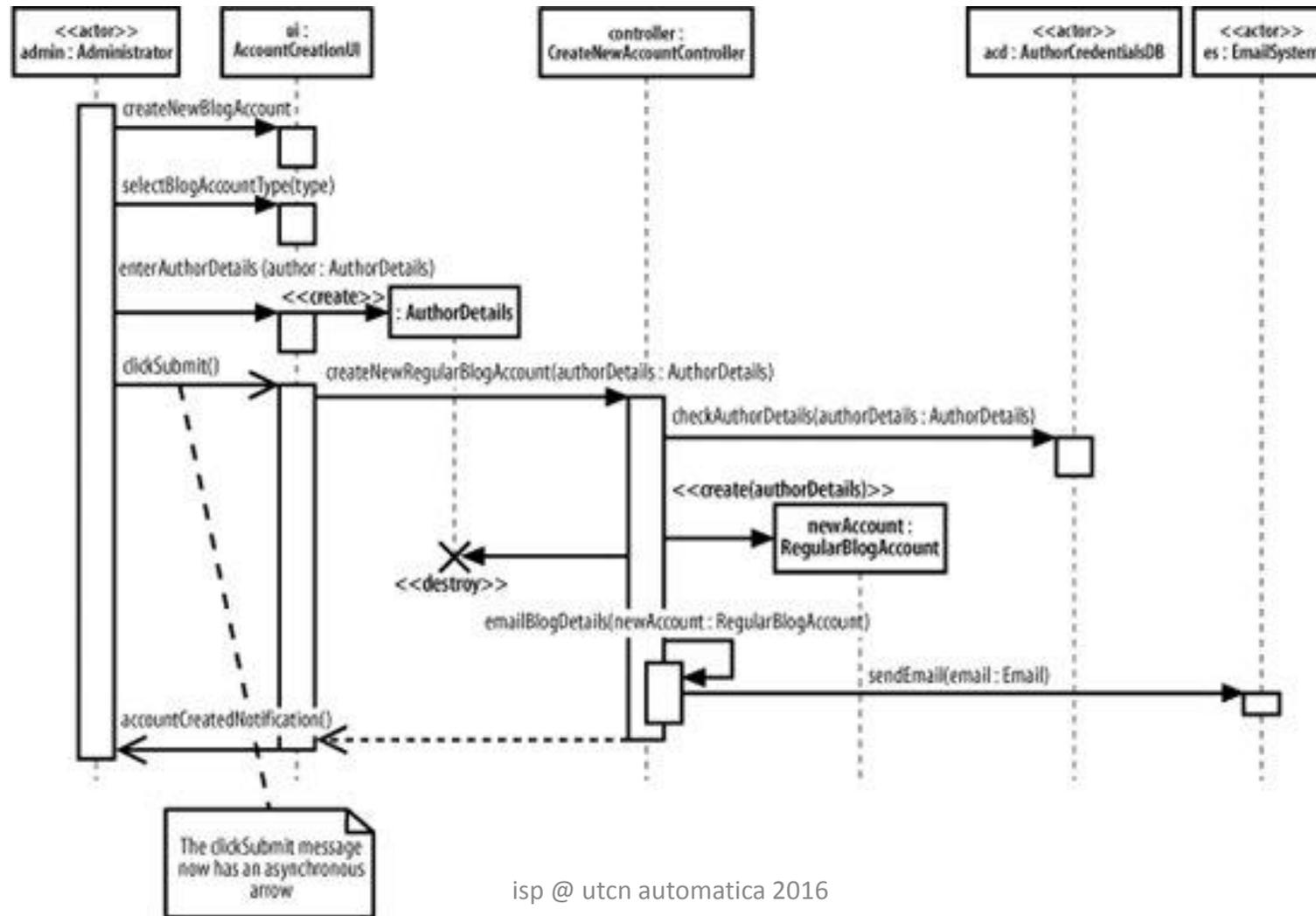
# Diagrama de secvente – varianta 2



# Diagrama de secvente – varianta 3

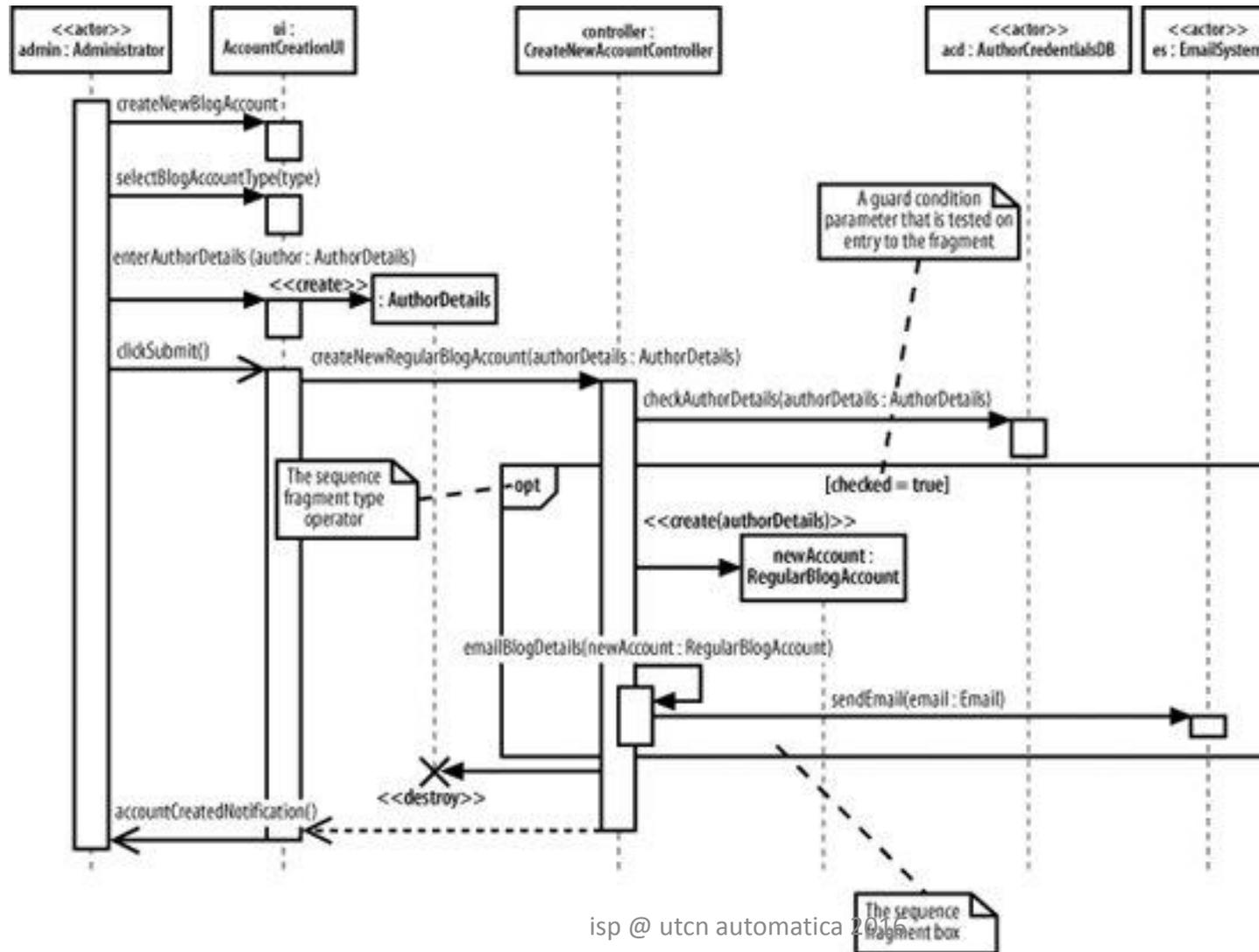


# Diagrama de sevente – variant 4



# Fragmente

# Fragmente



# Fragmente

- Tipuri de fragmente:
  - Ref – interactiune definite in alta diagrama
  - Assert – util pentru a specifica faptul ca toate interactiunile trebuie sa se execute cu success altfel se va genera eroare
  - Loop – executie ciclica a interactiunilor
  - Alt – similar cu structurile 'if-else' (executie alternativa in functie de o anumita conditie)
  - Opt – executie optionala in functie de o anumita conditie
  - Neg – marcheaza secventa de interactiuni ce nu sunt executate niciodata
  - Par – executie paralela a interactiunilor
  - Region – executie de regiuni critice (similar cu blocurile sincronizate din java)