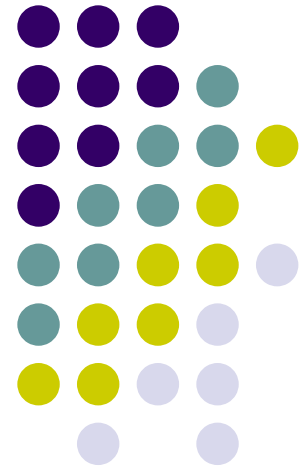


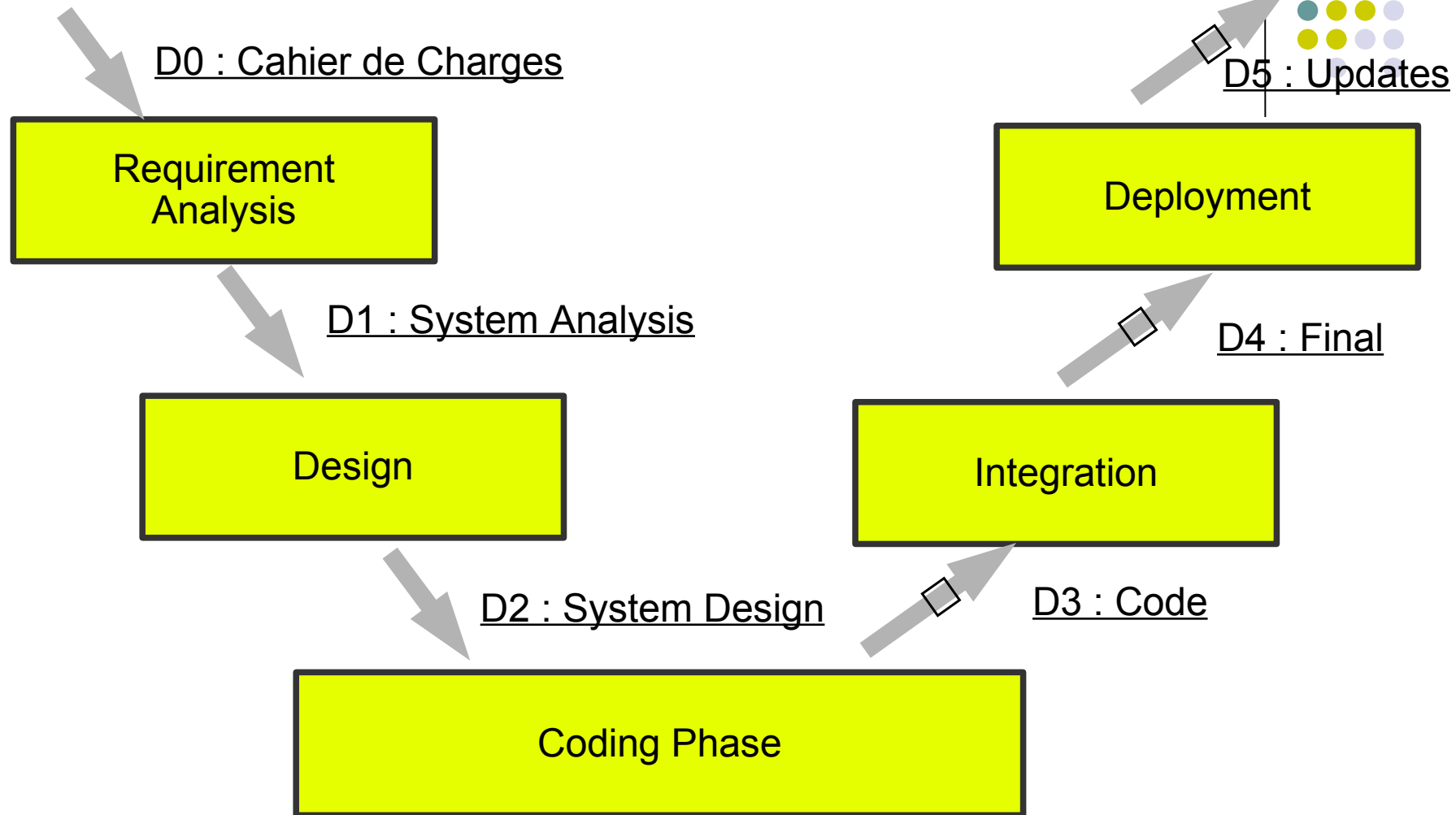
# Travaux d'Etudes et Recherche: Genie Logiciel

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**Apprendre un processus  
de développement  
par exemple**



# How can software be «built systematically»?





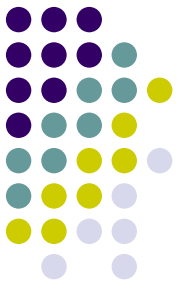
# About: D1 : System Analysis

- In contrast to the Design Document D2, the analysis milestone is oriented towards the  
  
Cahier de Charge
- It attempts to identify/making explicit
  - the actors of the system (use case diagrams)
  - the possible scenarios (sequence diagrams)
  - the data necessary to understand the system (class diagrams)
  - the main operations
  - the main invariants



# About: D1 : System Analysis

- It attempts to identify/making explicit
  - the actors of the system (3 pp UML plus descr.)
  - the possible use scenarios (20 pages scenarios)
  - the data necessary understand the system (5-10 pages)
  - other diagrams (0-10 pp)
  - catalogue question / problems: (3 pp)
- It refines the «Cahier de Charge» in all other aspects (Global Application Description, Context, Constraints, ...)



# Infos and Tools :

- An Overview over UML and its Use in Analysis and Design:

<https://www.lri.fr/~wolff/teach-material/2020-2021/L3-GLA/part-II.pdf>

<https://www.lri.fr/~wolff/teach-material/2020-2021/L3-GLA/part-II-cont.pdf>

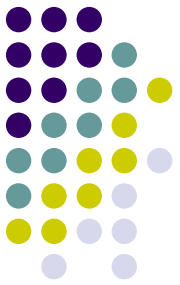
- Tools

- Eclipse/Papyrus ... heavy but powerful, Ecore based.
- Argo/UML --- light-weighted, but a bit out of date
- We recommend a web-based, collaborative solution:

<https://app.genmymodel.com/>

We created for each group a project ....

# Infos and Tools :

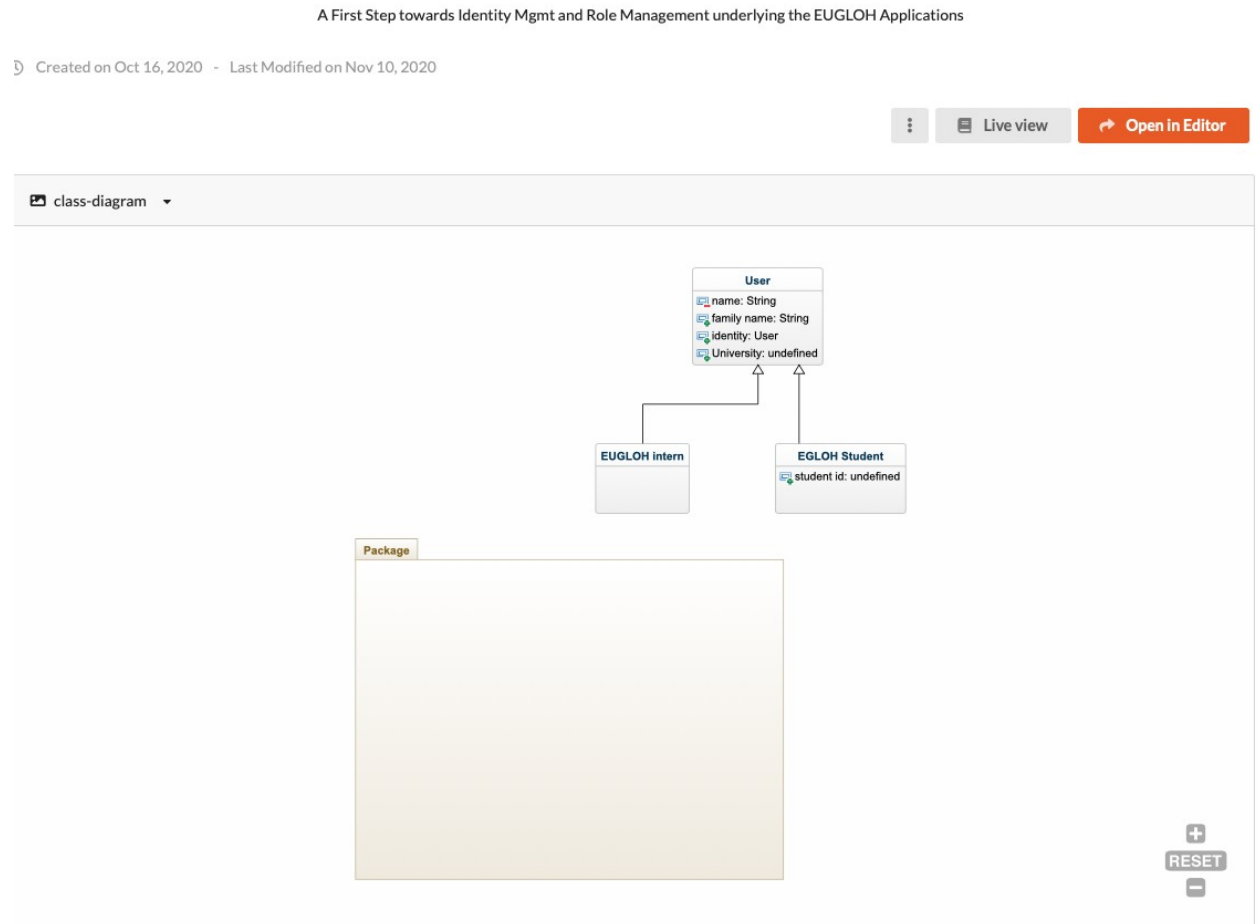


- **GenMyModel**

access via goups to be sent via mail per group.

- **Functions**

- Dashboard
- 



# Infos and Tools :

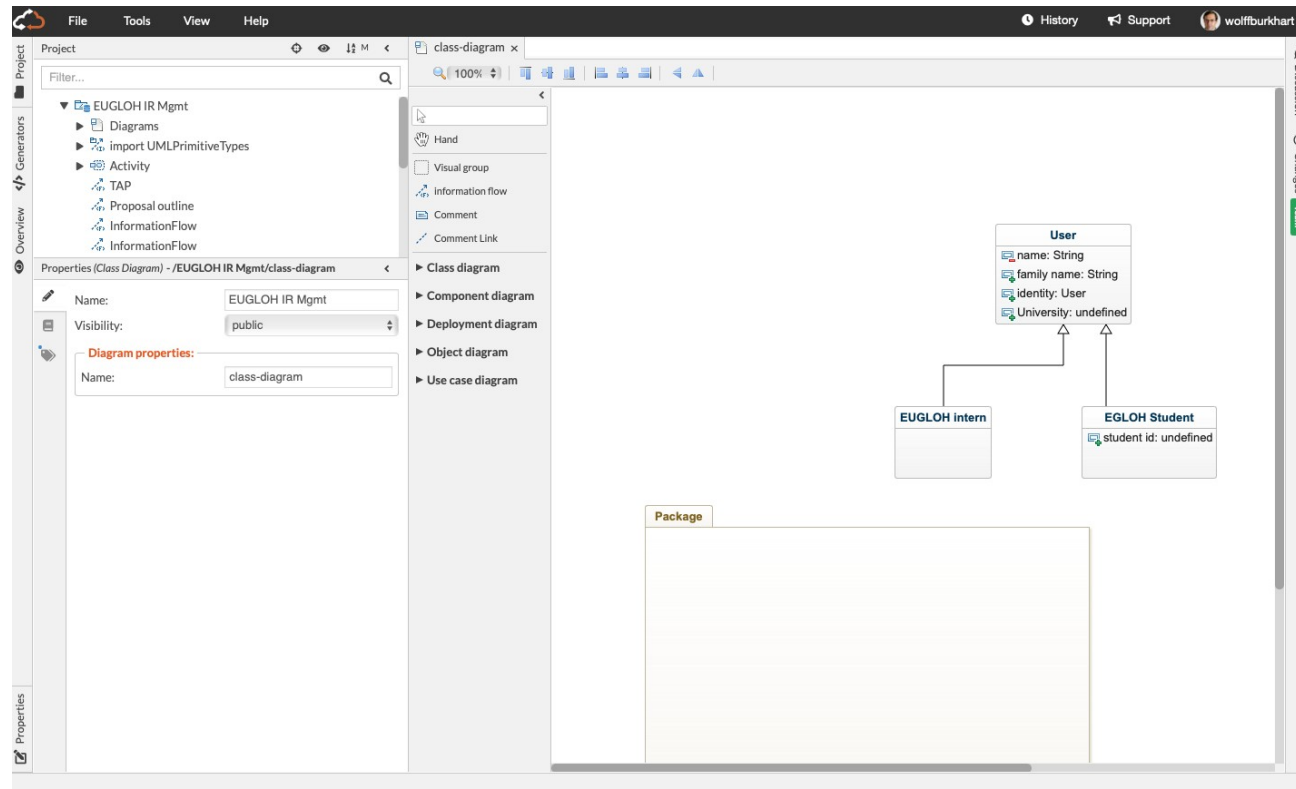


- **GenMyModel**

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- Dashboard
- Model Editor
- 



# Infos and Tools :



- **GenMyModel**

access via groups to be sent via mail per group.

- **Functions**

- Dashboard
- Model Editor
- Documentation  
&  
Code Generators ...