

Teaching DevOps at UnderGraduate level

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Requirements

- Context
- Level at which the course is taught, graduate or undergraduate
- Background and prerequisites
- Course objectives
- Main topics covered
- Format of the course, e.g. conventional lectures, invited presentations, case studies, research topics, ...
- Technical environment, e.g. tools, technologies, cloud platforms, ...
- Evaluations
- What type of exams and assignments/projects do you use?
- Individual or team assignments/projects
- How do you evaluate students?
- Feedback
- Positive points and issues/challenges to share

Context



Level at which the course is taught

- Undergraduate (L2)

Background and prerequisites

- **Git** basis
- Some programming language (**Java** mostly)

Course objectives

- Be **PROFESSIONAL**
- Building is not just a **green button** on Eclipse !
- Delivering a **product**

Main topics covered

- Scrum, sprints
- Issues, branches
- Quality, quality, quality!

Format of the course

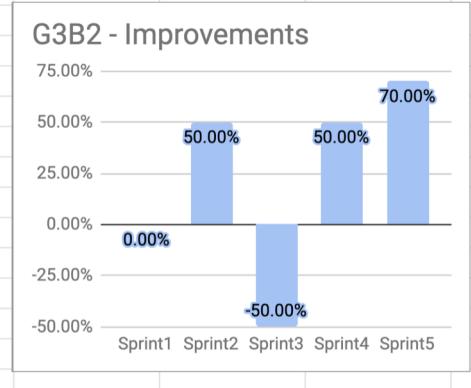
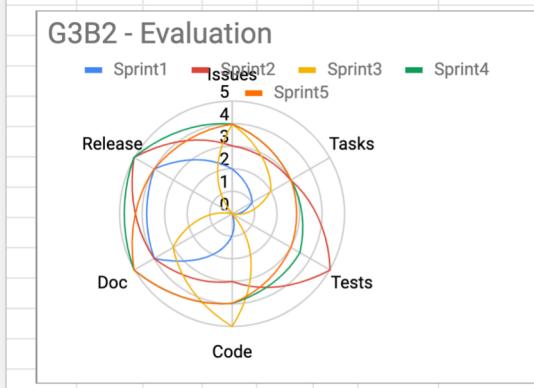
- Project-based
- Starting from scratch or not
- Continuous evaluation

Technical environment

- GitLab
- Git
- Not yet on Docker

Evaluations

	Issues	Tasks	Tests	Code	Doc	Release	Total	Before/After	Commentaires	https://gitlab.iut-blagnac.fr/adufrechou/
Sprint1	2	1	0	-	4	4	8.8	0.00%		
Sprint2	3	3	5	3	4	5	15.3	50.00%	Images ne marche pas sur wikis / modifs de code sans t	
Sprint3	4	2	0	5	3	0	9.3	-50.00%	Pas de CI. Pas de tag/branche pour une release donné,	
Sprint4	4	3	3.5	4	5	5	16.3	50.00%	Backlog vide? CI dead. MR?	
Sprint5	4	3	3	4	5	4	15.3	70.00%	Penser à fermer les issues. CI dead, dommage	



<https://github.com/xblanc33/QualiteDev>

GitLab Project MPA2019-G41

- Project Details
- Activity
- Releases
- Cycle Analytics
- Insights

Repository Issues (28)

Merge Requests (0)

CI / CD

Security & Compliance

Operations

Packages

Wiki

Snippets

Settings

README Projet MPA S3 2019

V1.0, Pour le 02.09.2019

Composition du groupe

- Benjamin Chane-Law
- Matthieu Corbin
- Baptiste Sicart
- Pierre-Paul Cavallera

Evaluation

En cours de test...

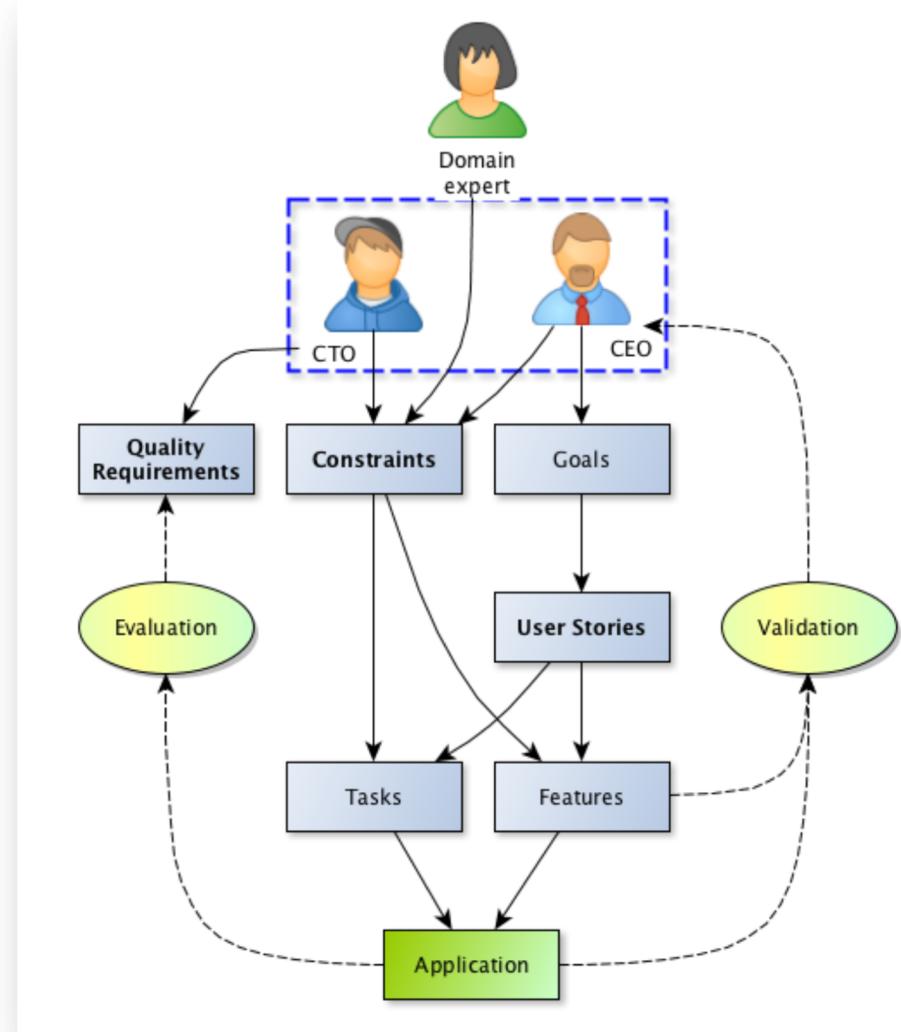
G4A1 - Evaluation

Sprint	Release	Tasks	Tests	Code
Sprint1	0	0	0	0
Sprint2	1	1	1	1
Sprint3	2	2	2	2
Sprint4	3	3	3	3
Sprint5	4	4	4	4

Sommaire

- Composition du groupe
- Evaluation

Evaluations



What type of exams and assignments/projects do you use?

- **Project** (sprints + release)
- Exam (QCM)
- MOOC bonus

Individual or team assignments/projects

- Team
- Random or not ? => Random on 1st year

How do you evaluate students?

- See previous slides ;-)

Feedback

- **Continuous evaluation** is great
 - **Gamification** of the evaluation is next step
- Thinking “**out of their own IDE**” is hard for them
- Seeing “Green Flag” on their build is a great motivation  build passing

Positive points and issues/challenges to share

- Install & tools => **Docker** ?
- Real-life (**big**) projects to use / collaborate is needed
- **Never too early** to start delivering quality product



<https://smart-researchteam.github.io/>



@SmartModelTeam



<https://github.com/smart-researchteam>

The End...