Project: Gamification Platform

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What is gamification?







Gamification is the application of game-design elements and game principles in non-game contexts.

Gamification techniques strive to leverage people's natural desires for socializing, learning, mastery, competition, achievement, status, self-expression, altruism, or closure.

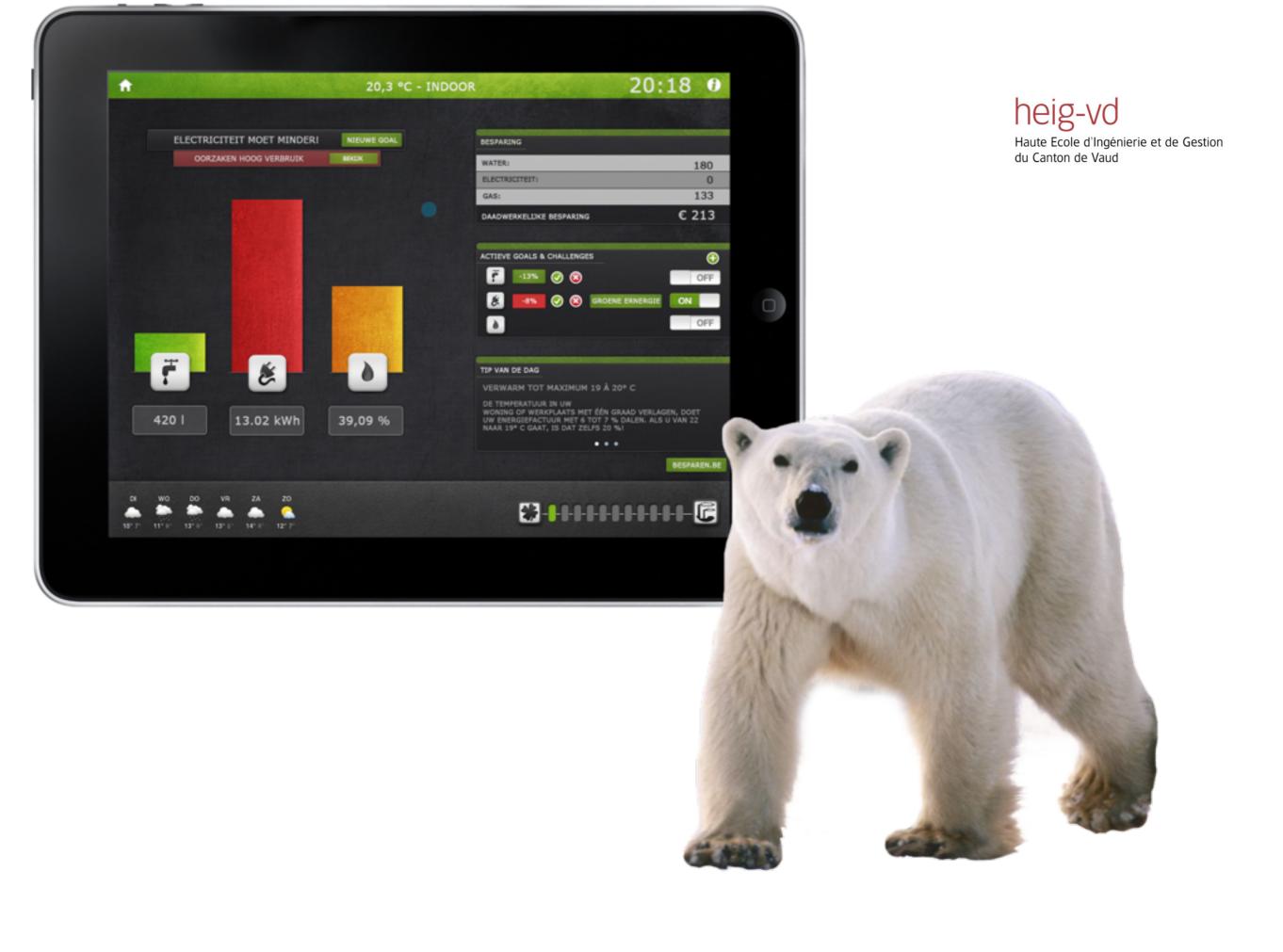
Early gamification strategies use rewards for players who accomplish desired tasks or competition to engage players. Types of rewards include points,^[27] achievement badges or levels,^[28] the filling of a progress bar,^[29] or providing the user with virtual currency.^[28] Making the rewards for accomplishing tasks visible to other players or providing leader boards are ways of encouraging players to compete.^[30]

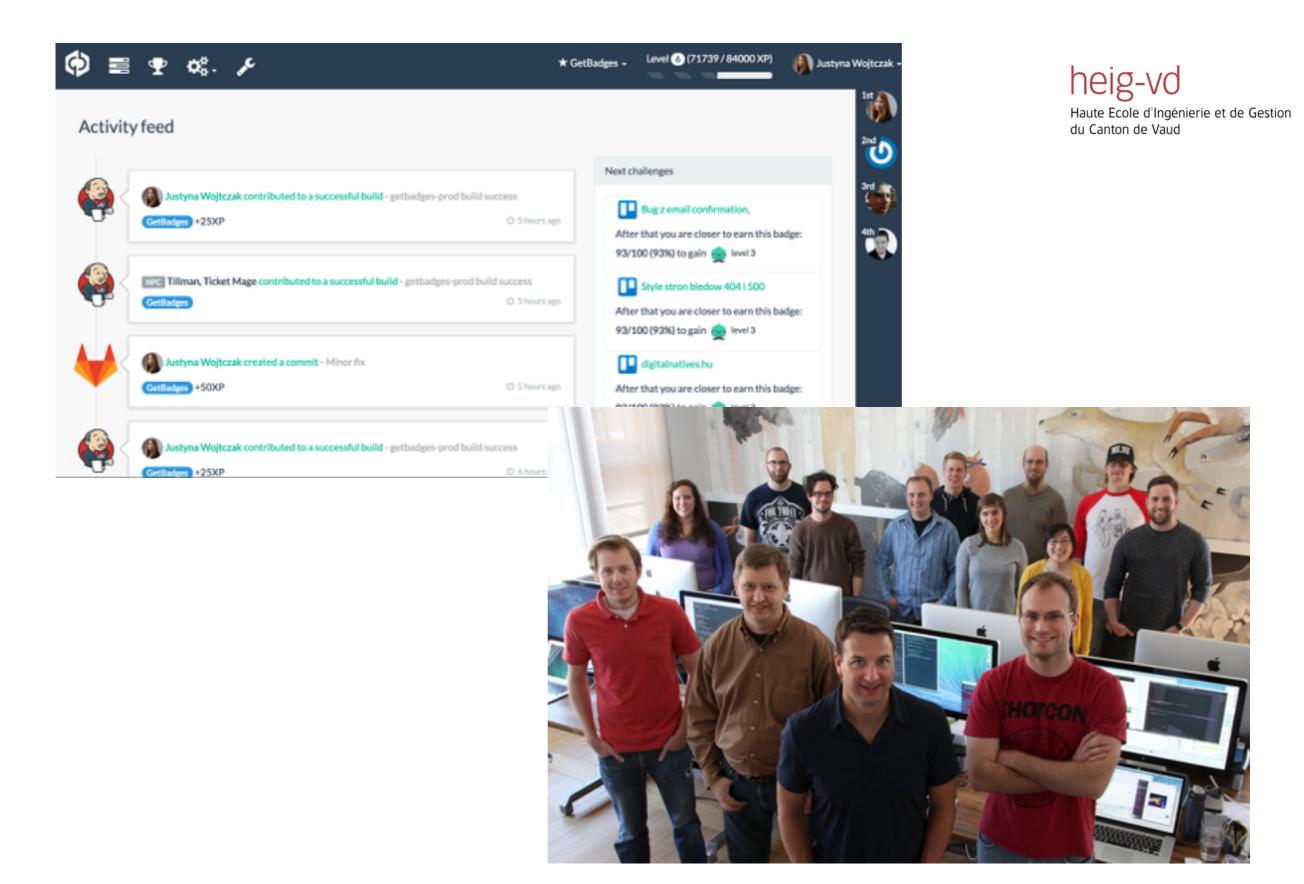


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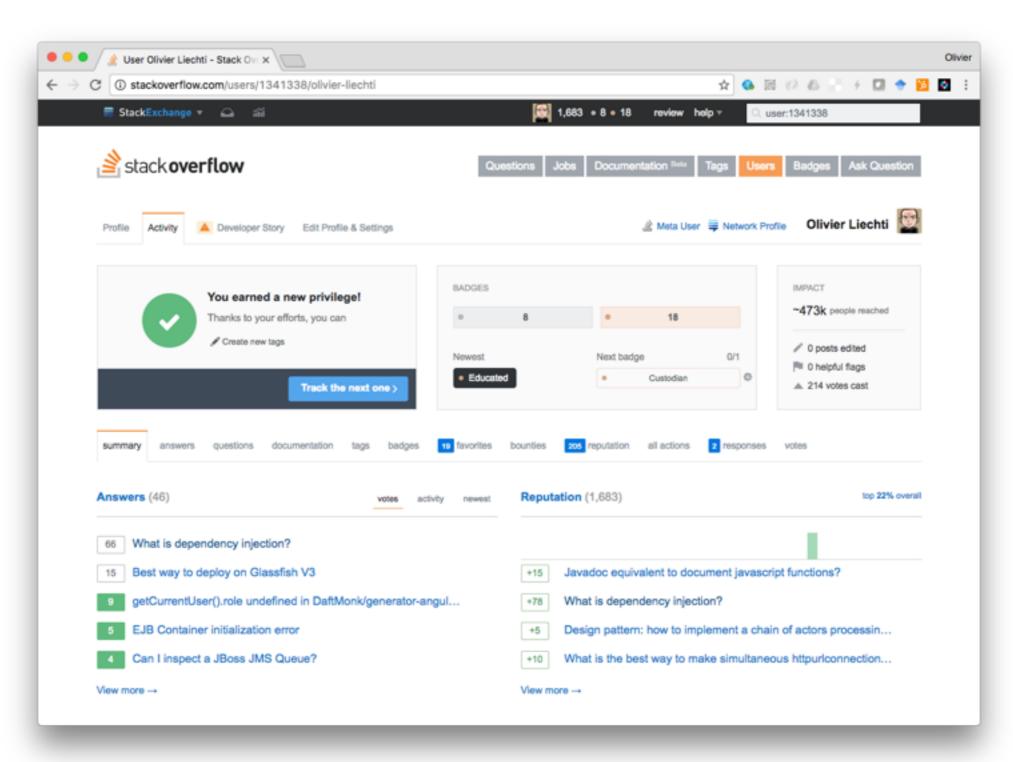






What is a "gamified application"?







Users perform activities & tasks. This materializes in a continuous stream of "application" events.





A gamified application is a source of events.



What will we build?

Your Gamification Platform

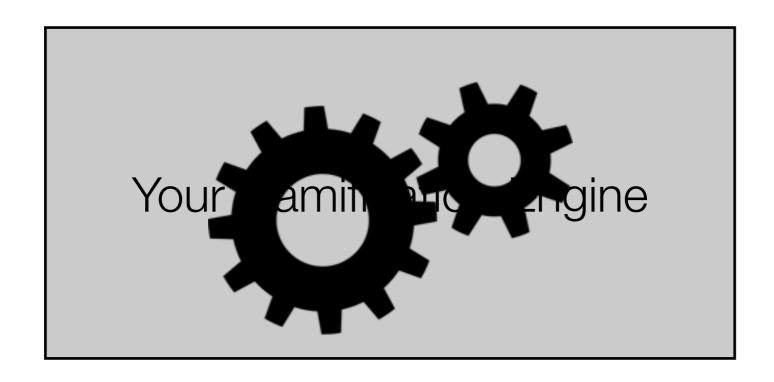
/events/











/users/4/badges, etc.

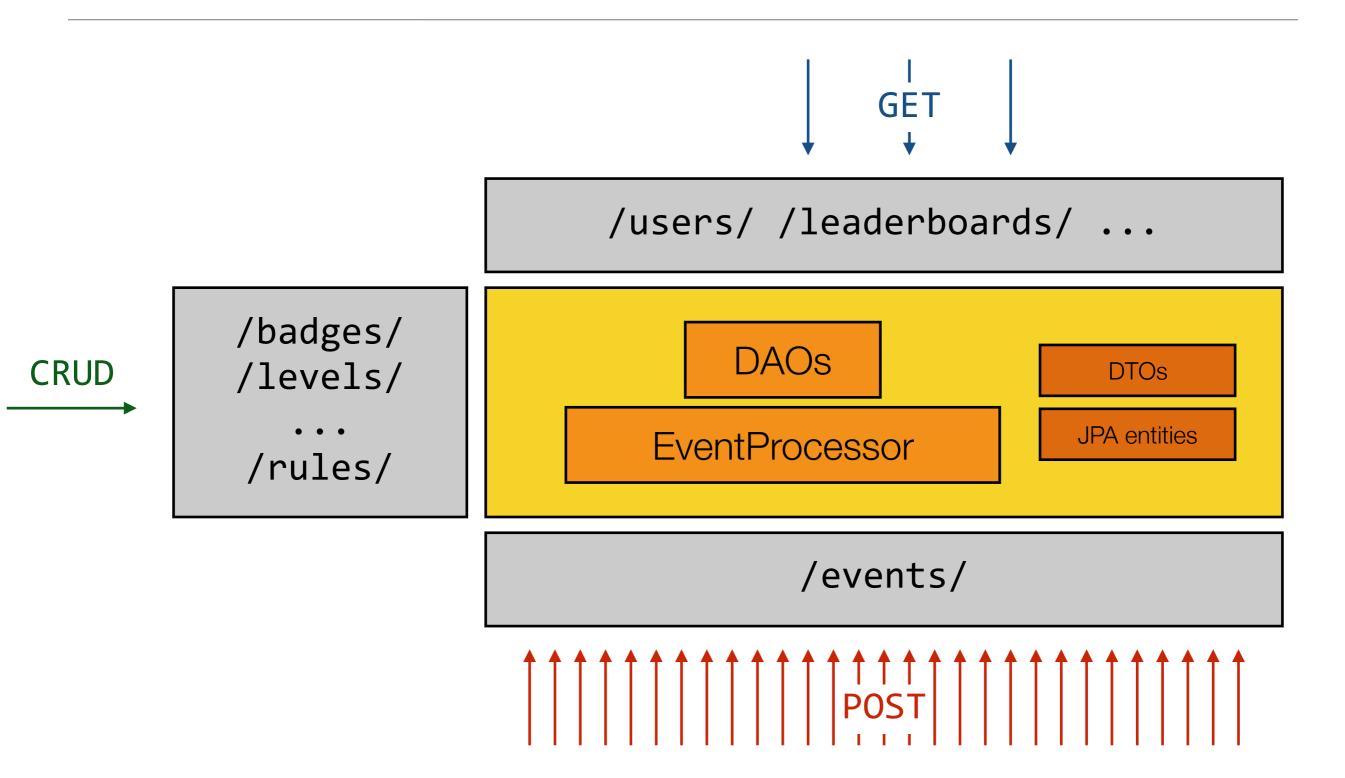
Your Gamification Engine



How will we build it?

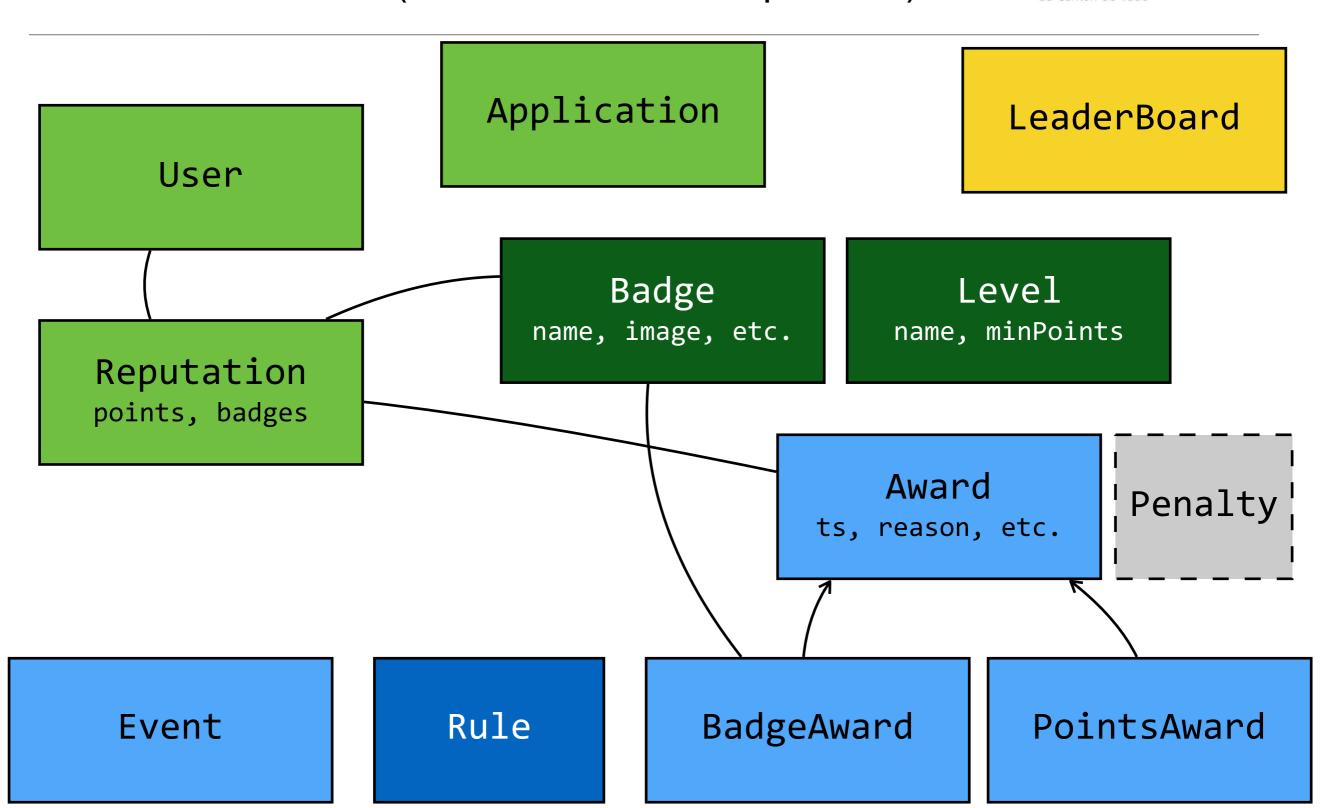
High-level architecture





Domain model (illustrative and partial)







31.10.2016	Itération 1	Le tiers d'accès aux données JPA	INTRODUCTION TO THE GAMIFICATION PROJECT	
07.11.2016		La documentation et les tests d'API Swagger, (RAML), Jersey client, supertest		
14.11.2016	Itération 2	Les micro-services Spring Boot et Spring Data	migration à Spring Boot	As an app owner, I can define a list of badges via the /badges endpoint As an app owner, I can define a list of point scales via the /pointScales endpoint
21.11.2016				
28.11.2016	Itération 3	Les architectures orientées événements	As an app, I can send a stream of user events via the /events endpoint As an app owner, I can define a rule to award a badge when some conditions are met (via the /rules endpoint)	
05.12.2016				
12.12.2016	Itération 4		As an app owner, I can define a rule to award points (via the /rules endpoint)	
19.12.2016				
09.01.2016	Itération 5	application de démo		
16.01.2016				



Deliverables =

Executable platform +
Automated validation +
Documentation +
Demonstration



Automated validation =

API tests +

UI tests +

Performance/scalability tests + Code quality tests



Team =

2 software developers + 2 software quality engineers