Software development lifecycle

Scrum е може би най-използваната agile методология за разработка на софтуер

Work phases are generally separated to:

* Idea
* Planning
* Creating
* Testing
* Deploying

Горния процес обикновено е итеративен при гъвкавите методологии

Environments – areas where product can be built, distributed, installed, configured and tested:

* Development environment
* Common build environment
* Integration testing environment
* User acceptance environment
* Production environment

В Development среда се разработва софтуера и след това се тества. Продукта пак бива изтестван в Staging среда и чак тогава ако тестването е успешно, продукта отива в Production средата

! Staging средата трябва да е със същите конфигурации като Production средата

A development methodology is a set of practices and procedures for organizing the software development process

* A set of rules that developers have to follow
* A set of conventions the organization decides to follow
* A systematical, engineering approach for organizing and managing software products

Heavyweight and agile methodologies:

* Heavy methodologies rely on formal procedures and documents
* Agile methodologies rely on small iterations and less formalities

Често, полезни промени, като рефакториране, не се правят по продукта, защото тези промени не се счиатат за разумни, според manager-ите на проекта, например нямат достатъчна финансова възвращаемост

Agile methodologies:

* Scrum
* Kanban
* Lean Software Development
* eXtreme programming (XP)
* и др.

Scrum – an iterative and incremental agile software development methodology for managing product development

Scrum roles:

* Scrum master – maintains the Scrum process
* Product owner – represents the stakeholders
* Team – a group of about 7 people
  + The team does the actual development: analysis, design, implementation, testing, etc.

Scrum terminology:

* Sprint
  + An iteration in Scrum
  + Usually few weeks
* Product Backlog – попринцип не е възможно да се измислят всички неща (функционалности), които ще трябва да се направят за конкретния продукт, наведнъж
  + All features that have to be developed
* Sprint Backlog
  + All features planned for the current sprint

Scrum practices:

* Sprint planning meeting
* Daily Scrum stand-up meeting – до 15 минути
* Sprint review meeting