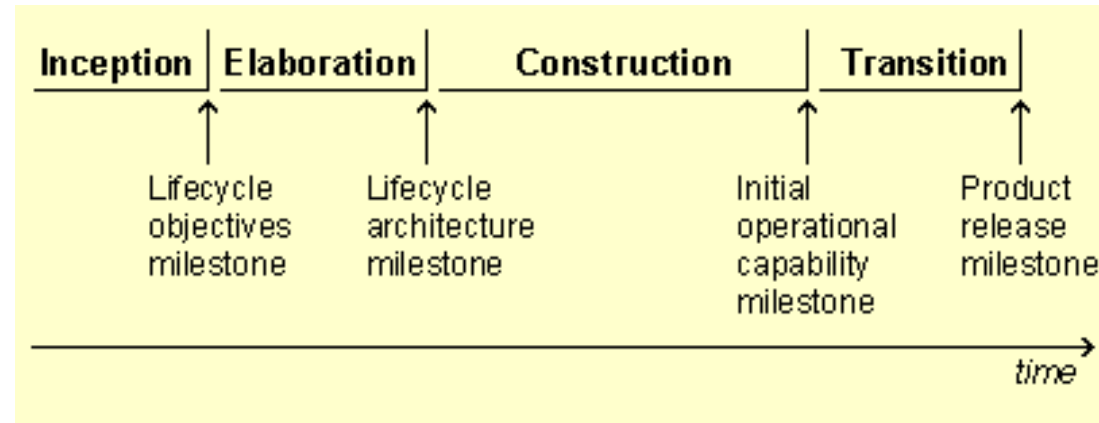


Project inception and elaboration phases

Projeto em Engenharia de Computadores e Informática – (LECI), Departamento de Eletrónica, Telecomunicações e Informática, Universidade de Aveiro

(2021)

Phases and milestones of a project (OpenUP)



source:

http://epf.eclipse.org/wikis/openup/practice.mgmt.risk_value_lifecycle.base/guidances/concepts/phase_milestones_5678231E.html

elaboration phase

The purpose is to establish the baseline of the architecture of the system and provide a stable basis for the bulk of the development effort in the next phase.

Get a more detailed understanding of the requirements.

*Design, implement, validate, and establish the baseline for the architecture. **Design, implement, and test a skeleton structure of the system.***

Mitigate essential risks and produce accurate schedule.

source:

http://epf.eclipse.org/wikis/openup/practice.mgmt.risk_value_lifecycle.base/guidances/concepts/elaboration_phase_BE880435.html

Elaboration phase: requirements elicitation

Describe the requirements of system users, customers and other stakeholders

1. Requirements gathering

Sources of information including interviews, questionnaires, user observation, workshops, brainstorming, etc.

2. Functional requirements

What the system is supposed to accomplish, for example: business Rules, administrative functions, authentication and authorization levels, reporting, historical data, or Regulatory Requirements.

3. Context and State of The Art (SOA)

How the system is expected to be used and what has been done in this context

Elaboration phase: requirements elicitation

4. Actors

Describe the target users in your system.

5. Use cases

Describe the interaction between users and the system to achieve specific goals. Tip: organize the use cases by packages.

<http://agilemodeling.com/artifacts/useCaseDiagram.htm>

<https://www.visual-paradigm.com/guide/uml-unified-modeling-language/what-is-use-case-diagram/>

6. Non-functional requirements

Describe how the system works (while functional requirements describe what the system should do), for example: performance (e.g., response time, capacity, availability, recoverability, maintainability, security, data integrity, usability, or interoperability).

do not forget assumptions and dependencies.

Elaboration phase: system architecture

Deployment diagram

Describe the hardware the software installed on that hardware and the middleware used to connect machines.

Include the technologies used in the system.

<http://www.agilemodeling.com/artifacts/deploymentDiagram.htm>

<https://www.visual-paradigm.com/guide/uml-unified-modeling-language/what-is-deployment-diagram/>

[Domain model]

A diagram capturing the main entities and relationships between them may also help in some systems.

<http://agiledata.org/essays/agileDataModeling.html#InitialDomainModel>

[User interaction]

Design mock-ups as soon as possible.

recommended to do list → milestone 2

Present a detailed State-of-the-Art and how your project relates to previous work

Requirement's elicitation

Define goals

Collect information: documents, interviews

Functional and non-functional requirements

Actors, uses cases and other

System Architecture

Skeleton structure of the system is tested: system components can communicate with each other

Design mock-ups as soon as possible

>> remember: be proactive <<

Milestone 2

Elaboration phase completed !

Prepare a 12-15 minutes presentation: details on elaboration phase results are mandatory.

Due date:

- . Teams (1, 2, 3, 6, 7, 8, 9): December 10, 2021
- . Teams (4, 5, 10): December 17, 2021