INSA INSTITUT NATIONAL DES SCIENCES APPLIQUÉES LYON

Software engineering

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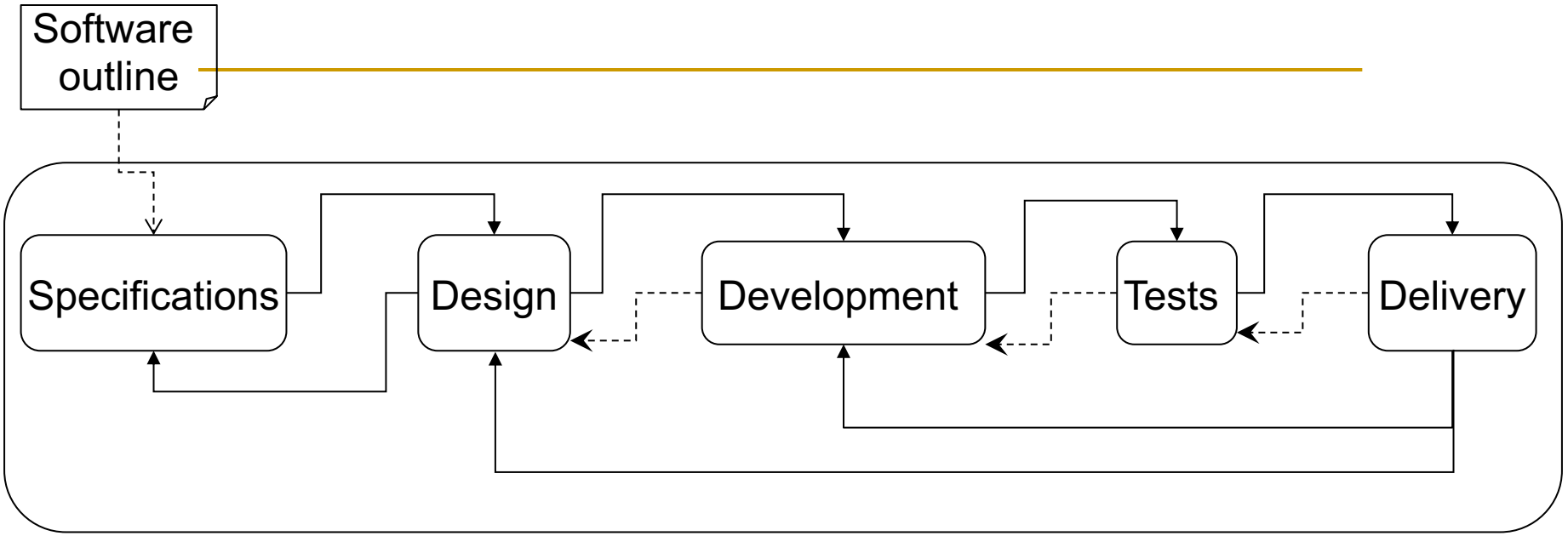
Organisation of the mini-project



Technical stuff

- C++ language
- No Graphical UI
- IDE of your choice
  - avoid simple text editor
  - Eclipse, Visual Studio, etc
  - The same for all the team members to avoid pb
- Use a git server

4 students, 5 lab sessions + 1 tutorial

- A team = 2 binomials

- TD + Lab 1 = deliver specifications for feedback
- Lab 2 = deliver design v1 for feedback
- Lab 3 = deliver app v1 for feedback
- Lab 5 = final delivery for evaluation

- Deliver on Moodle
  - a single zip

Deliver specifications

A pdf document containing a precise description of WHAT is required

- No technical solution, only requirements
  - Functional and non functional requirements, Analysis of security risks, Validation tests plan, draft user manual
  - Be precise and complete

Include:

- texts, tables, interaction examples, scenarios…
- adequate UML diagrams
  - With their associated descriptions/comments
- Add next steps planning !

Deliver design

A pdf document containing a precise description of HOW you organize your code

- Packages, classes, methods, attributes
- architecture, modular decomposition, class diagram, sequence diagram… description of most important algorithms, Test plan

Include:

- Adequate UML diagrams
  - With their associated descriptions/comments
- Add next steps planning !

Deliver a version of the app

Provide:

- A description of the version
  - Included functionalities, scenarios of use
- The source code
- The test code and corresponding data
- New version of specifications / design document if updated

Each delivery could/should be an upgrade of previous version. So **start each iteration by cloning/committing** all your material

Final delivery

During Lab 5

- Provide everything needed for any version delivery
  - + installation process, build process
- Do a viva / demonstration
- Be prepared for the client to try / experiment on other data files

Enjoy the mini project!

- Prepare your team
  - Associate with another binomial of your group
- Read the subject before tutorial
  - It is deliberately imprecise on many aspects
  - It's your job to ask and understand the details, so that you can write your specifications document