Deliverables

Blockchain and Distributed Ledger Technologies / # FF

SAPIENZA
UNIVERSITÀ DI ROMA

Claudio Di Ciccio

claudio.diciccio@uniroma1.it
http://www.di.uniroma1.it/~diciccio

Roll call

Computer Science	Cybersecurity and other programmes excl. CS

Deliverables

- Presentation (optional, to acquire bonus/malus)
  - Showdown on an agreed day at the end of the winter semester
  - Timing: **7'** presentation and live demo + **2'** discussion
  - Slides must be uploaded in the shared folder before the lecture begins
    - Format: Powerpoint or PDF (no time to switch laptops, really)

- Project (mandatory), to be discussed during the oral exam
  - By 16:59 Rome/CET time two days before the exam
    - Right: before tea time
    - No deadline extension
  - Via upload on Google Drive (see the Classroom space)
  - Format: compressed file containing
    - PDF of the report
    - Folder with project files (according to the structure seen in class)
  - Length: Not less than 18 and not more than 30 pages
    - EXCLUDING table of contents and other indices but
    - including references, front page and figures
      - Longer documents are not necessarily better

Presentation

- Students *in the classroom* compose the voting assembly.
- If preferences for a teamwork amount to
  - [85%, 100%] of the assembly ⟶ the bonus is +1.5 pts.
  - (66%, 85%) of the assembly ⟶ the bonus is +1.25 pts.
  - [33%, 66%] of the assembly ⟶ the bonus is +0.75 pts.
  - (15%, 33%) of the assembly ⟶ the bonus is +0.25 pt.
  - [0%, 15%] of the assembly ⟶ the bonus is 0 pt.
- Not voting is an option (should neither of the projects be deemed worth the bonus).
- The instructor can add or subtract up to 0.5 extra points
  - On top, and independently of, the assembly bonus
- The vote is repeated twice
  1. To assess the technical quality
     - Mastery of the topic, appropriateness of the solution, attention to details
  2. To assess the presentation quality
     - Clarity of exposition, neatness of the message, completeness of the story

Structure of the presentation

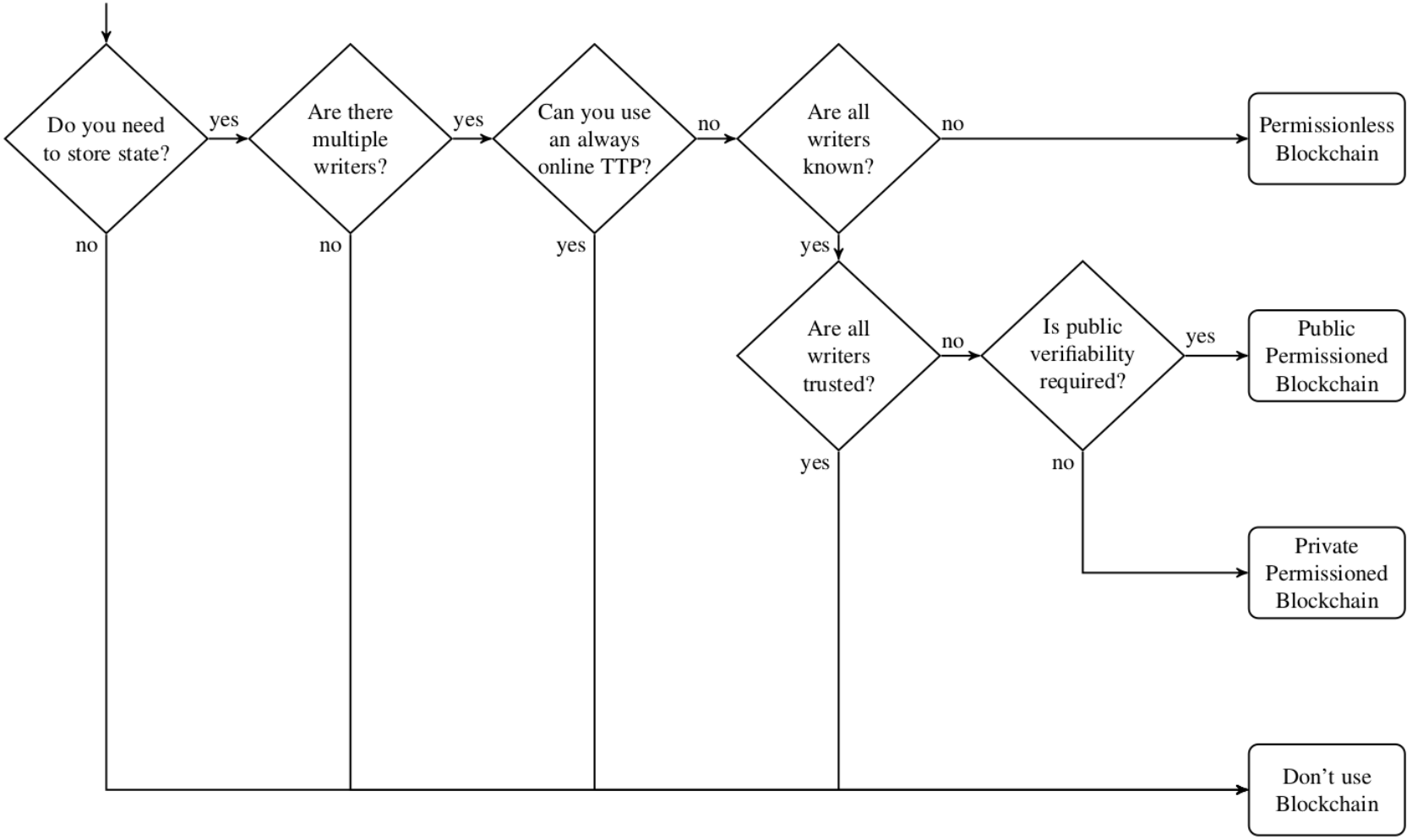
Timings are demonstrative

Use your ingenuity and unique style

- Introduction (~30 seconds)
  - Title
  - Team members and prospective main responsibilities
    - This does NOT mean every member does one thing – collaboration is paramount
    - Presentation / HTML front-end / Solidity development / Javascript development / Architectural design / Token engineering / …
- Presentation of the context (~1 minute)
  - Aim of the DApp
  - Why using the blockchain
    - Is it fit for purpose? Why? What are the advantages?
  - What type of blockchain you would use in production and why (private? Public? Permissioned? Permissionless?)
- Approach (~2 minutes)
  - Expected contracts, tokens, communications in-between, etc.
  - Remarks, e.g., app tokens represent this, ether transactions represent that…
- Early prototype showdown (~2 minutes)
  - Contracts, GUI, logos, etc., or sketchy drawings thereof
  - Software architecture diagrams, or sketchy drawings thereof
- Known issues and limitations (~30 seconds)
- Recap (~30 seconds)
- Slack (~30 seconds)

Looking for inspiration? Watch this brilliant video:
https://youtu.be/Iwpi1Lm6dFo
Also, you may want to check out
my personal guidelines on presentations

Blockchain please?



Diagrams

- A UML **concept** diagram (or an analogous model) to describe the structure and content of the **smart contract**(s)
- A UML **component** model (or an analogous diagram) to indicate the back-end and front-end **modules** and their **dependencies**
- UML **collaboration** diagrams (or analogous ones) to illustrate the interactions among those components
- A UML **use case** diagram to illustrate the main usage scenarios of the DApp or tokens
- UML **activity diagrams** (or analogous ones) to illustrate the lifecycle of the tokens
- Happy diagramming!

Structure of the report (use the Sapienza template)

- Preface (~1 page)
  - Title and 3-sentence presentation of the DApp
  - Team members and main responsibilities
  - Outline of the report
- Background (~5 pages)
  - Blockchain: history, rationale, concepts…
  - Application domain
- Presentation of the context (~3 pages)
  - Aim of the DApp
  - Why using a blockchain, and what type thereof to use in production
- Software architecture (~12 pages)
- Implementation (~6 pages)
  - Like the demo
- Known issues and limitations (~0.5 pages)
- Conclusions (~0.5 pages)
- References (~1 page)

Weights in pages are demonstrative