ISDCM Workshop on Standardization

2024/25 Q2

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DAC - UPC

Contents

- The Workshop (3')

- Brief introduction to standardization (20')

- The exercises (3')

- GROUPS WORK (30' in parallel)

- Work presentations and discussion (4*(7+5)')

Brief introduction to Standardization
(see other slides)

The exercises

Activities around standardization

- **Identify/select a standard for a need**
- **Understand what does it solve and how to use it**
- Be aware of the status of a standard within its development process
- Identify new possible standards
- *Develop new standards*

Activities for the exercises

I. **Identify**/select a standard for a need

U. **Understand** what does it solve and how to use it

S. Be aware of the **status** of a standard within its development process

N. Identify **new** possible standards

Example of exercise

Activity: **S** (Be aware of the **status** of a standard within its development process)

Use Case: **HTML**

SOLUTION:

(see other slides)

GROUPS WORK
The specific exercises

Activities for the exercises

I. **Identify**/select a standard for a need

U. Understand what does it solve and how to **use** it

S. Be aware of the **status** of a standard within its development process

N. Identify **new** possible standards

Use cases for the exercises

G. Protect/encrypt **genomic** information

P. **Provenance** of images

H. **Haptics**

S. Electronic **signatures**

T. **TLS** (Transport Layer Security)

Use case / Activity

1. **G/I, G/U**

2. **G/S**

3. **P/I, P/U, P/S**

4. **P/N**

4 exercises for 4 groups (11L)

Use case / Activity

1. **G/I, G/U**: (Identify + Understand) – Genomic information protection

2. **G/S**: Status – Genomic information protection

3. **P/I, P/U, P/S**: (Identify + Understand + Status) – Provenance of images

4. **P/N**: New – Provenance of images

4 exercises for 4 groups (12L)

Use case / Activity

1. **H/N**
2. **T/S**
3. **E/I, E/U**

4. **E/S**

4 exercises for 4 groups (12L)

Use case / Activity

1. **H/N**: New – Haptics
2. **T/S**: Status – TLS
3. **E/I, E/U**: (Identify + Understand) – Electronic signatures
4. **E/S**: Status – Electronic signatures

Work in class

- Search for the required information

- Prepare a short summary of the solution to the proposed exercise

- Short presentation of results and doubts

- DISCUSSION

- Deliver **(per group)** quick notes and slides (by e-mail at the end of the class)

Work after class

- Search for missing information to complete the work

- Prepare, **individually**, a short paper (around 3-5 pages) with all results

- Deliver the paper before two weeks

Extra grading

- Work in class:

    - Extra 5% over Daily Tests bonus

- Work after class (delivered individually):

    - Other extra 10%