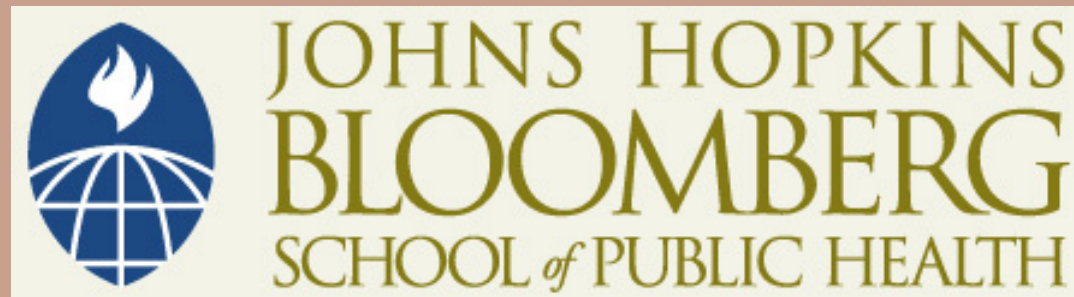


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Functional Standards

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Session Outline

- Functional standards
- System development process: how to communicate your needs to developers
- Documenting functional requirements
- Final assignment

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Section A

Functional Standards

Health IT Standards Categories

- Data standards
 - E.g., vocabularies and terminologies
- Information content standards
 - E.g., Reference Information Models (RIMs)
- Information exchange standards
 - E.g., messaging standards
- Identifiers standards
 - E.g. National Provider Identifier (NPI)
- Privacy and security standards
- Functional standards and business processes standards
 - E.g., processes/workflow
- Other
 - E.g., IT standards

Health IT Standards Categories

- To date, the main focus of the standard development activities has been on:
 - Data standards (vocabularies and terminologies)
 - Information content standards (data representation, RIMs)
 - Messaging
 - Infrastructure standards

National Biosurveillance Use Case

- Charge: “transmit essential data from electronically enabled healthcare to authorized public health agencies in real-time”

National Biosurveillance Use Case

- Data Standards – 28
- Information Content Standards – 17
- Information Exchange Standards – 46
- Identifiers Standards – 11
- Privacy and Security Standards – 5
- Functional Standards – 0
- Other – 0
- TOTAL = 107 standards

Communicating your Needs to Developers

Functional standard:
communicating your needs to developers



How the client explained it



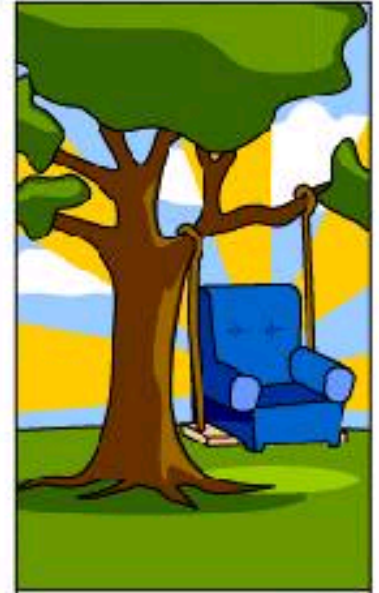
How the project officer understood it



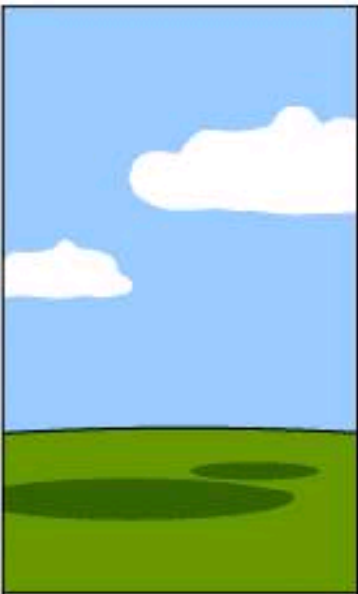
How the analyst designed it



How the programmer wrote it



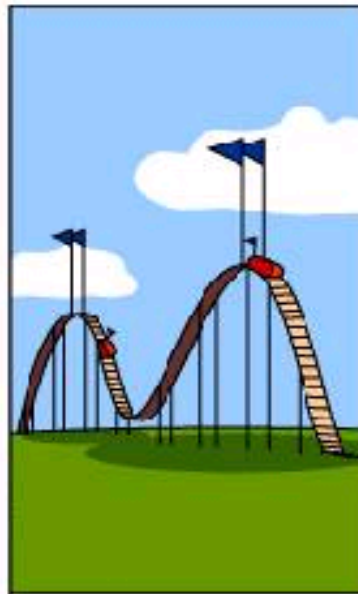
How the sales rep described it



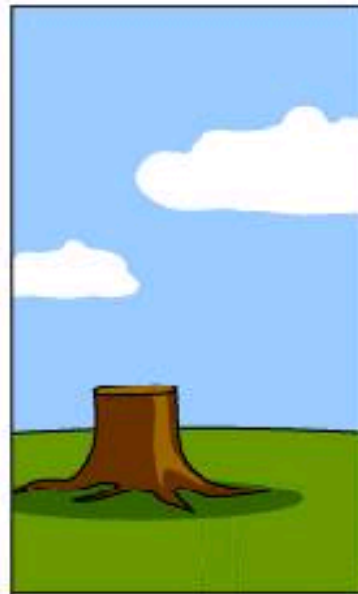
How the project was documented



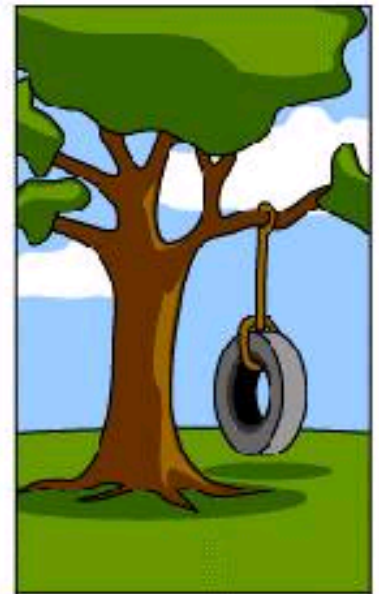
What operations installed



How the customer was billed



How the project was supported



What the client really needed

Functional Standard

- **Functional standard** describes work processes that support data exchange between users (e.g., clinicians and public health practitioners) in a format of *functional requirements specification* for electronic communication between settings (e.g., clinical and public health settings)

Functional Standard

- **Functional standard** is a vehicle to assure that the *work processes of stakeholders* (e.g., clinicians and public health practitioners) related to the electronic data exchange *are well understood and agreed upon by stakeholders themselves* and then *communicated clearly to the developers* as functional requirements (functional standard) for the information system

Functional Standard

- The **functional standard** serves as a foundation for the implementation of all other standards
- To date in the United States, there is no consensus on the format, content, and approach for how to specify the functional requirements (functional standards)



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