CMPUT 605
Ethics in the Software Development Life Cycle: A Case Study of Health Informatics Systems

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January 28, 2010
Review of Last Meeting

- Hamman's background experience
- Suggestion to look at existing work on ethics in health informatics
- Tasks assigned to Hamman
  - Review FDA document
  - Review literature on health informatics ethics
- Website for course to be set up for posting and sharing links, documents, announcements
Existing Knowledge

- A Handbook of Ethics for Health Informatics Professionals
  - British Computer Society [BCS]
  - International Medical Informatics Association [IMIA]
- General Principles of Software Validation
  - US Food and Drug Administration [FDA]
- ISO/TC 215 Standards
  - International Standards Organization (ISO)
Auxiliary

- Ethics and Information Technology: A Case-Based Approach to a Health Care System in Transition [Book]
Ethics

- Autonomy
- Equality and justice
- Beneficence
- Non-malfeasance
- Impossibility
- Integrity
Information & Ethics

- Privacy and disposition
- Openness
- Security
- Access
- Legitimate infringement
- Least intrusive alternative
- Accountability
Software Engineering

- Duties of Software engineers
  - To the public
  - To the client and employer
  - Product
  - Judgment
  - Management
  - To the profession
  - To colleagues
  - To self
Health Informatics

- Duties of Health Informatics Professionals
  - Subject-centered
  - To healthcare Professionals
  - To institutions/employers
  - To society
  - Self-regarding
  - To the profession
Software in healthcare

- FDA regulations on software life cycle
  - Quality planning
  - System requirement definition
  - Detailed software requirements specification
  - Software design specification
  - Construction/coding
  - Testing
  - Installation
  - Operation and support
  - Maintenance
  - Retirement
Next week

- Access to ISO/TC 215 standards
- Thorough review of FDA document
- Formulating final report topic
- Possibility of incorporating case studies
- Course website