CSU CIS 315 Framework

components to 315

- problem domain analysis
- corporate strategy
- business process improvement, reengineering, automation
- requirements analysis
- UML and software design

problem domain analysis

- document existing business (or cultural practices)
- data flow
- value stream analysis
- kanban
- org charts
- venn diagram

corporate strategy

- SWOT analysis
- cause / effect
- ishikawa
- business model canvas

business process analysis

- BPMN
- UML use case
- UML activity diagram
- OMG
  - business motivation
  - decision model notation

new system design

- requirements analysis
- UML use case, activity diagrams
- ui wireframes

part 2

teaching methods

methods

- teams
- team github, instructor invited
- all digital submissions via slack
- yammer or slack used to integrate teams 24/7
- diagram demonstrations -> practical use demos, immediate try-it
- lucid chart use
- applied learning via business case
- creation of empty classes, javadoc

deliverable cycle

1. case study
2. process diagram
3. identify inefficiencies
4. rebuild process
5. draft wireframes
6. structure as UML
7. draft classes, test via sequences
8. implement base classes
9. write tests

value system

- instructor built presentations, long stories via ppt, not from book
- ppt as tools for instructor storytelling
- taught skill, measured skill
- project as sandbox to try and refine
- student leaves feeling taught, feeling skilled, feeling confident
- ongoing advisement for systems analysis profession