

Overview

Each group has been given an audio recording containing (primarily) the voice of FBI Agent Dale Cooper, who is heard addressing himself to someone called “Diane.”

For the purposes of the assignment, we’ll pretend that Cooper’s utterances and the other sounds captured in these recordings are intended as input to D.I.A.N. - which is an acronym for a machine learning tool at the FBI called the *Digital Information Absorption Nexus*.

This tool is predicated on human-computer collaboration to solve crimes, and it depends on the work of expert analysts (that’s you!) to provide architectures for understanding the information agents speak into and record with their devices.

Purpose

All students get involved with “IA before AI.”

Objective

Help make the information in a short audio recording understandable to machines and humans alike using the lightweight OO modeling approaches we learned from Tom Meloche last week.

Approach

Each group will be responsible for developing three diagrams:

1. Objects Model
2. Use Case Model
3. Activity Diagram

Deliverable

Each group will show up in class on February 19 with three sheets of tabloid-sized paper, one for each diagram. Alternately, three tabloid-sized digital files submitted to instructor and GSI via email or Canvas.

Evaluation Criteria

70% - completeness of models and diagrams relative to the audio recording.

Were all of the objects, actors, relationships etc. present in the recording incorporated in the team’s three diagrams?

10% - correctness of models and diagrams in terms of UML

Is the team’s use of the simplified UML vocabulary in the diagrams correct?

10% - correctness of models and diagrams in terms of the Twin Peaks canon?

Are the objects, actors, and relationships represented and described in the diagrams factually correct?

10% - agreement of models and diagrams relative to one another

Are the objects, actors, and relationships represented and described in the diagrams in agreement across the three sheets they’re printed on?