Signature

Midterm CS 5714 Usability Engineering Spring 2014 Instructions 1. Sign the honor pledge below. 2. Write your name, PID (email) on page 1. $\mbox{\bf DO}$ NOT write your name anywhere else on the ${\it 3.} \ \ Read\ all\ instructions\ carefully\ before\ answering\ the\ questions.}\ Answer\ all\ multiple\ choice\ and$ true/false questions in the test. 4. Produce a PDF and email it to the instructor to perez@cs.vt.edu. Good luck! Honor Pledge: 120 mg I pledge that I have neither given, nor received undue help while completing this exam. SPECIAL (@vt.edu)

Figure 1: Pledge and signature

Part 1

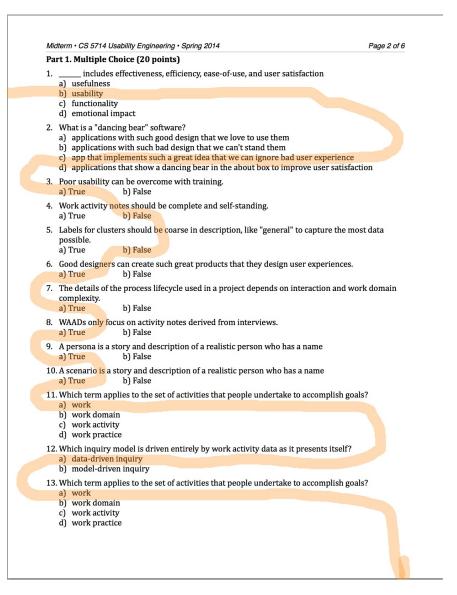


Figure 2: Multiple Choice — True/False One

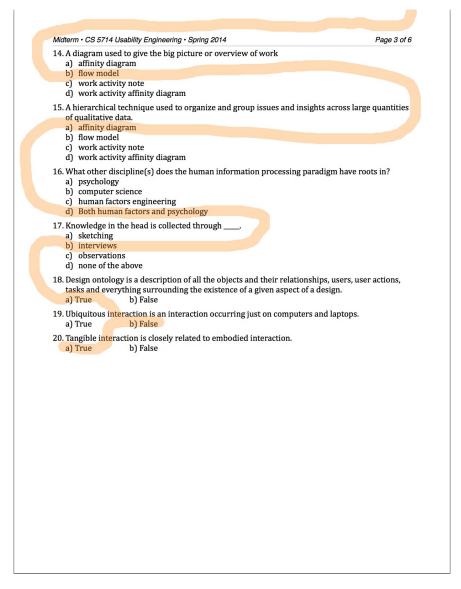


Figure 3: Multiple Choice — True/False

Part 2

Question 1

Graduate students at a large public educational institute have varying needs throughout their academic career. Their main contact is an overloaded faculty member who is struggling to accommodate all requests in a timely structured manner.

I propose InkDrop, an automated proxy scheduler for assisting close community members in achieving meet-ups that last less than 5 minutes. While there are many communities that can benefit from InkDrop, it will initially support an academic community to accommodate rapidly changing multiplex organizational structures and process flows. All community members at some point require knowledge surrounding matriculation, and Inkdrop will help members access a centralized reference for decentralized content and

information. Members will be able to navigate information flow charts to reduce unawareness, expedite the required paperwork flow, and take charge of their academic career while also aiding the faculty member in performing the job duties succinctly and expeditiously.

143 words (not including this line of course)

Question 2

Like all well executed User Experience Design processes, this is a first pass at the information provided. Subsequent interviews will include a discussion and verification about the physical representations of the current and proposed system and work flows.

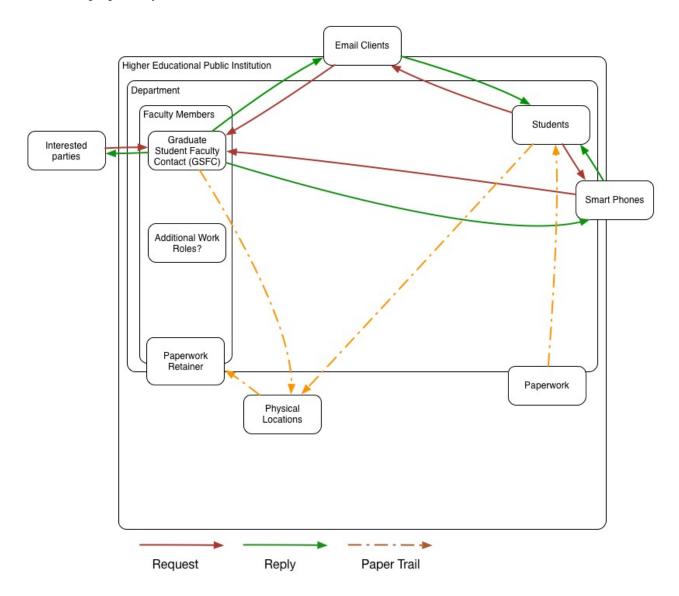


Figure 4: Current Structure

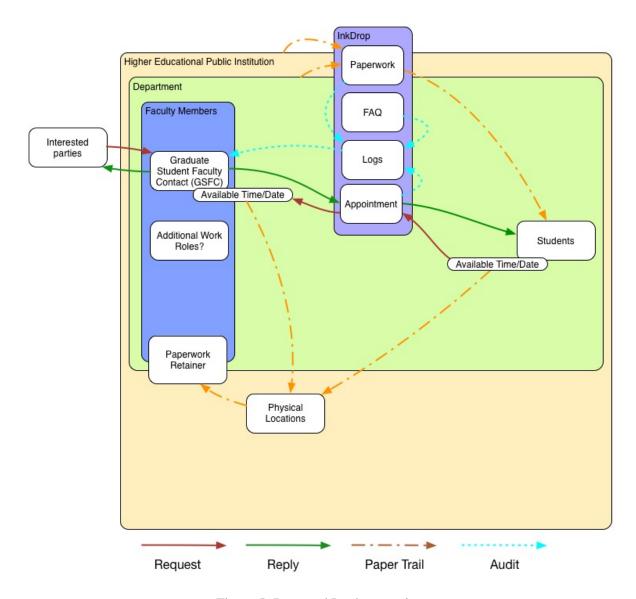


Figure 5: Proposed Implementation

Question 3 - Work Roles

Assumption: (Dr. MPQ @ a public institution) !== (Dr. Manuel @ VT) && (Dr. MPQ) == (Benevolent Dictator):

Roles marked with an asterisk (*) are explicitly mentioned in the interview. Roles without an asterisk are inferred form the interview, however titles and duties have yet to be reified.

Faculty Member * Dr. MPQ

The roles and responsibilities of a faculty member are not mentioned

Graduate Student Faculty Contact (GSFC) * Dr. MPQ

This role is in charge of helping graduate students in several capacities including signing paperwork, holding brief meetings, and consultation. It is unclear if these roles are independent of a formal work

role title despite potentially having different purposes. Many of the concerns aside from signatures are centered around information communication.

Additional Work Roles * Dr. MPQ

It is mentioned that he has many other work roles, but they are not explicitly discussed or delineated.

Paperwork Retainer, Interested parties Unknown

The paperwork flow is not clearly defined. For example, does the student(s) continue handling the paperwork, or the signature the final step. This leaves open the questions of who retains the paperwork, who views the paperwork aside from the student and GSFC

Student (s) There are graduate students who need paperwork signed, consultation regarding graduation, and other questions surrounding their education.

There are also other roles that must be considered, but aren't easily classified as a work role given the lack of inquiry, but closer to places and domains that have influence on this particular client's case:

Higher Educational Public Institution * Not known

Physical Locations * Campus, and KWII

Smart Phones, Email clients * While they are communication channels as well, they are explicitly different form a phone call, as they have physical components as well.

Question 4

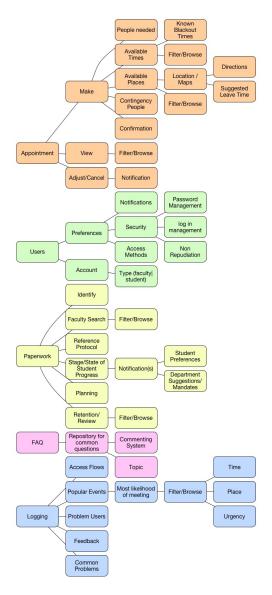


Figure 6: InkDrop: Hierarchical task inventory diagram

Part 3

Harrison, Tatar, and Sengers (HTS) identify a third paradigm of the HCI research area by first defining human factors then classical cognitivism/information processing. Their definition surrounds the strengthening of meaning based on interactions in particular situations. This view point is an HCI centered paradigm that tries to address the murky connection between symbols and referents in the common communication semantic triangle as in Figure 7.

I believe the strongest component of the this third phenomenologically-situated paradigm of understanding HCI is the importance of the user, in particular their domain knowledge and interactions in situations. As

a challenge in designing any experience (electronic, situated, [inter/intra]-personal, or otherwise), accommodating varying viewpoints rarely occurs. The third paradigm stresses that the users' perceptions, knowledge, interactions, and should not be bijected and formally judged. This lack of adjudication is grounded around accommodating varying viewpoints and social structures, where precision can but infrequently exists. This lack of precision in the other two paradigms is ignored as being irrelevant. In the scope of the third paradigm, however, all contexts, experiences, and situations of every user are recognized and given weight.

The requirement of the third paradigm to encompass situations, users, and viewpoints strengthens HCI as a field, especially relevant to user experience. This phenomenologically-situated idea is at a core of well rounded usability engineering principles and stages, in particular: participatory design, user inquiry, and evaluation methods. The third paradigm situates us designers and engineers to keep an open mind throughout the processes as we also try to concretize the connections that exist in the domains we are interacting with, while also understand our effect, similar to the *entanglement* concerns proposed by Schrdinger in describing theoretical clashes among interpretations and experimentation.

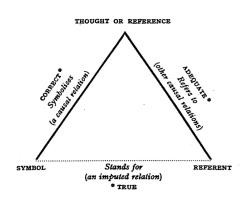


Figure 7: A traditional semantic triangle