BC-isit442 Class Overview And Structure

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Messaging Medium

1   What Is Messaging?

What Is Messaging?

- Not Same Place – Not Same Time

- Forms Of Messaging: Paper, Voice, Text, Video, etc.

- Intrusive Vs. Non-Intrusive

- Control over its privacy?

2   Where Does Technology End And Medium Begin

Where Does Technology End And Medium Begin

- Consider The TV. Is its technology all that relevent?

- It Shapes Us.

- Who Shapes It?

- Content Vs Delivery

- Where Are We With Email?

3   Ramifications Of The Medium On Autonomy, Privacy and Society

Ramifications Of The Medium On Autonomy, Privacy and Society

Compare USPS with Today's Email.
What are we loosing?

4   Why Are You Using Gmail?

Why Are You Using Gmail?

Really, Why Are You Using Gmail?
The Impact Of Your Use Of Gmail On Me?
What happens when you hit the delete key?
Who reads the legal privacy statements?

What Options Do You Have?

What Options Do We Have?

Part II

History Of Messaging/Email

5 Success Has Many Fathers

Failure Is An Orphand

- https://en.wikipedia.org/wiki/Email

6 Historical Evolution Of Email

There Were Some Clear Phases

- Main-frame Email
- Lan Email Islands
- Heterogenous Connectivity Of Lan Islans
- X.400 Promises
- Internet Email Convergence
- Corporate Take Over Of Email

What is The Future?

Part III

Messaging Model And Terminology

7 X.400

7.1 Basic Model for email (Inter-personal Message Handeling System (MHS)

Figure 1 is taken from X.400 reference model.

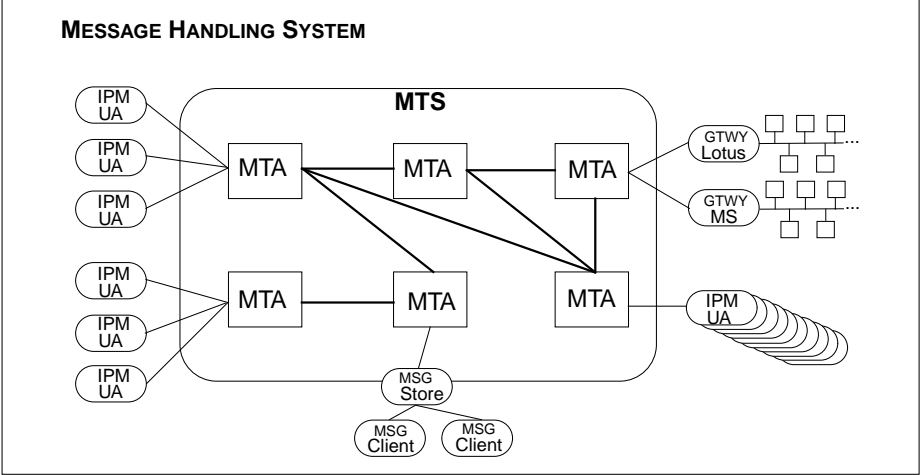The basic model for email (Inter-personal Message Handeling System (MHS)) mimics the postal service.

Figure 1: mhsModel

7.2 Some Basic MHS (email) Terminology Review

Some Basic MHS (email) Terminology Review

Since we are going to use email as the example through out, let's quickly review some basic terms.

- Message Handling System (MHS) – interpersonal, non-intrusive, either deliver of bounce

- Message Transfer Agent (MTA), Message Transfer System (MTS) – Examples: Sendmail, qmail, exim, MS-Exchange, ...

- Mail User Agent (MUA) – Examples: MS-Outlook, pine, Gnome's Evolution, Emacs' Gnus, ...

- WebMail – A Web Based MUA

- Message Delivery – email is put in your mailbox or pushed to MUA

- Message Submission – Sending email

- Message Retrieval – Example: imap

Part IV

Messaging Protocols

8 Internet RFCs

1. What Are RFCs

2. History Of RFCs

3. RFC Editor Web Site – `www.rfc-editor.org`

4. IETF Web Site – `www.ietf.org`

5. Internet RFCs Culture, Then and Now – Example My 1998 Concerns – `https://www.ietf.org/mail-archive/web/ietf/current/msg40875.html`

9 Messaging Protocols Layered/Structured

1. Assignment: Update Mohsen's 2001 list. Make it current for 2016

2. Email Communications Stack Slide 21 of `http://mohsen.1.banan.byname.net/content/generated/doc.free/mohsen/Records/mobileMsg1999.pdf/Presentation/mobileMsg1999.pdf`

3. Protocol Functions

4. SMTP Traces (Slides 62-66)

Part V

Class Activities

10   Virtualization

11   Obtaining Your VM Player and Your VM Images

11.1   About Virtual Machines Players And Virtual Machines Images

1. Virtualization Host Machine
2. VM Players
3. VM Images
4. Virtualization Guest Machines

12   Emacs

12.1   Major and Minor Modes

- Key Bindings

12.2   Org-Mode

- Using Org-Mode For Sys-Admin

Part VI

Assignments

12.3   Assignments

- Walk Through The Emacs Manual (Major Modes, Outline Mode)

- Get Started With Org-Mode. Take notes and create todo lists.

- Update Protocols List Use The Org Mode To Create The Following Hierarchy

    - Message Transfer (Submission and Delivery) – Submission
    - Routing And Relaying
    - Domain Authentication
    - Spam Detection

- – Mailbox Access
- – Format Standards

Make the RFCs (docs) be hot URLs in Org-Mode

Email me the msgRfcsList.org file

- Page Through the latest RFC-822 – An example of RFC reading

References