MEMEX

FUNCTIONAL SPECIFICATION

PRESENTED BY BRENDA SON

1. SCOPE

Project goals

- to answer needs of speed and flexibility in data storage, particularly in books, records, and communications
- to aid memory for an individual

Deliverables

- a device that can store a large quantity of books, records, communications and be accessible quickly, efficiently, and with flexibility.

Features and tasks:

Features:

- storage for organizing/encylopedias for books, records

Tasks:

- mechanized private file and library

Costs and deadlines:

Cost:

- $3000 - $5000 depending on different specifications of the machine (size, modifications, etc)

Deadlines:

- Functional Specification *due January 30*
- User Flow Diagram (detailed Solution Overview) *due February 6*
- Device Design Illustration *due February, 13*
- Magazine Advertisement/Marketing *due February 25*

2. SOLUTION OVERVIEW

System shall:

- enable users to access all data on archives
- enable users to organize all data using associative patterns
- enable users to insert additional data on archives
- enable users to project multiple different files simultaneously
- enable users to store data with digital photography

Physical description:

- a desk
- screens on top for projection
- keyboard and sets of buttons and levers on top
- stored material on the side

Technologies:

- translucent screens / touchscreens on top, built into the desk
- projection devices
- QWERTY keyboard used with inter face
- microfilm / alternative forms of storage
- ports for microfilms
- digital photography technology

3. REQUIREMENTS SPECIFICATION

What does the device do?

This device can store all books, records, and communications. The storage and accessibility is all mechanized. It is created for and allows one individual to access a stored library in a personal home, and also allows one to use associative indexing (essentially, hyperlinking different materials). It also allows for new storage (through both external inserts and creation of new data).

4. USER CASES

To use the device, the user:

1. Turns on the device using a switch or button

2. Waits for memex to load

3. Uses the digital interface through touchscreens, keyboards, and controls to browse files

   OR

   Keys in a special index code for a book

4. Chooses a file and start to browse

To search for a file, the user:

1. Turns on the device using a switch or button

2. Waits for memex to load

3. Uses the digital interface through touchscreens, keyboards, and controls to start the search bar through keywords

   OR

   Keys in a special code to search

4. Browses through search selection

5. Selects file, and waits for memex to load file

To import new files, the user:

1. Turns on the device using a switch or button
2. Waits for memex to load
3. Inserts each microfilm card into a special microfilm port
4. Uses the machine digital interface to select which files to import into the memex
5. Chooses how to organize the new importing files
6. Waits for import to be done and select to eject the microfilm
7. Memex ejects microfilm

5. NON-FUNCTIONAL REQUIREMENTS

No effect on core functionality:

- allowance of different angles for slanted screens (for desktop use)

- Possibility of a linkage between all devices (portability and sync)

- Desk portability; portability between small devices vs desk use (connection to bigger entity)

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