



FUNCTIONAL SPECIFICATION

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/encyclopedias 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 (January 30)

User Flow Diagram (February 6)

Device Design Illustration (February 13)

Magazine Advertisement/Marketing (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:

screens / touchscreens on top, built into the desk
projection devices
QWERTY keyboard used with interface
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
3. 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
3. 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)