CICC Information System

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ROCHESTER INSTITUTE OF TECHNOLOGY

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The College of Imaging Arts and Sciences
in Candidacy for the Degree of
MASTER OF FINE ARTS

CICC Information System

by
Chang-Mei Lin
July 8, 1992
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I have always been interested in the human-machine interface. While I was an industrial and product designer, I found that a successful interface design can play a communication role between the end-users and the product. Observing the users' response and reflecting the result in my designs has been one of my favorite jobs. For this reason, Hypermedia caught my attention when it was first introduced. Compared with the interface design of products, designing Hypermedia seemed more direct and straightforward. Not only was the three-dimensional interface changed into a two-dimensional one, but also all the man-machine interface was focused on the small computer screen. These differences made Hypermedia design more difficult to me, but also made it a challenge. Therefore, when asked to decide a topic for my thesis project, Hypermedia or interactive media design became my first consideration.
The CICC Information system is an interactive media project simulated to be provided by the Chinese Information and Culture Center (CICC). It provides various Chinese information and the CICC services via the telecommunication network between the end-users' computer and the terminal of the CICC. Through this connection, the user can not only search the Chinese art and culture information they are interested in, but also acquire the services providing by the CICC Library, Taipei Gallery and Taipei Theater. The intention of this project is to design an electronic information system for the real world. Both interface design and audio-visual aspect are my concerns.
Chapter I: The Proposal

Thesis Background
Last summer while I was traveling to New York City, I got a chance to visit the Chinese Information and Culture Center (CICC), which was located in Rockefeller Center and established on May 20, 1991 by the government of the Republic of China (Taiwan). I was deeply impressed by the multi-functional Chinese information and culture that the center provided and presented to the American public.

As a Chinese student studying in America, I met lots of people who were interested in Chinese culture or questioned me about my country. I was proud of my country and willing to introduce it to my friends, but I always felt that I could not answer their questions or express what I knew to them completely. The establishment of the CICC solved my problems. Most of the information about the Chinese art and culture that my friends were curious about could easily be found there. The only problem left was the regional limitation. It seemed only people who lived near NYC could make full use of this center. How to make the information available to a wider audience through technology became an important question remaining in my mind.

The Chinese Information and Culture Center
Before I proposed my thesis idea, it was important to have a better understanding of the center. The Chinese Information and Culture Center is the first large-scale and multi-functional information and culture center set up by the government of the Republic of China (Taiwan). The CICC, comprised of the Taipei Theater, Taipei Gallery, CICC Library, AV Room, and classrooms, is a new channel for the exchange of information and culture between the American public and the Chinese people living in Taiwan.
The Taipei Theater features live performances and film showings. The adjacent Taipei Gallery will stage exhibitions of traditional and contemporary Chinese art. The Library houses a 30,000 volume book collection and a large collection of periodicals from Taiwan. The AV Room and classrooms provide facilities for videotape showings, lectures, and related activities. All these were opened to the American public after August 14, 1991.

**Thesis Concept**

The purpose of my thesis was to create an electronic information system for the Chinese Information and Culture Center, which provided the Chinese Information searching service via the telecommunication network ISDN (Integrated Service Digital Network). This system was supposed to be installed both in the CICC and the end-users' houses. Through the connection of the end-users' home computer and the CICC, users could access the CICC's information directly at home. Generally the services this system provided would be based on the services of the CICC, which include the CICC library searching service, the gallery information service, and the theater information and reservation service. An introduction to Chinese art and culture or a specific emphasis on popular Chinese folk art might be appropriate as additional functions for this system.

The original idea of this topic was to use telecommunication to bridge the gap of geographic distance, and popularize the services provided by the CICC. My intention of this thesis was to create an electronic interactive application, emphasizing the man-machine interface design and the audio-visual aspects, applying the knowledge that I have recently acquired.
Defining the Users Group
After the idea of the thesis project had been proposed, a conceptual prototype of an electronic information system simulated to be provided by the CICC had been built. The next important consideration of this project was to define a user group. Due to the original purpose of this center, the audience of this system would be the general American public, including both Chinese people living in U.S. and the Americans, who were interested in the Chinese art and culture. In addition, because this system was going to be a Macintosh-based application, the prerequisite for installing this system was having their own Macintosh computer at home; therefore, I assumed the users would already be Mac users who know how to click, doubleclick, or hold down the mouse button and drag. These are all the required operations users needed for using the electronic information system.

Identifying Design Problems and Establishing Design Objectives
Before launching into the design process, it was important to define the problems to be solved or the objectives to be pursued. To design an electronic information system, the first design problem I expected in the beginning was the management of the vast amount of information and data. How to sort, organize and present the information to the audience in a logical way was a very important question to study at the initial stage. A successful interactive media design should provide an interface for the users to interact with and navigate through the information in various ways; therefore, providing an appropriate and versatile tool for the users to navigate through the information on their own became my first objective of this project.
The wide variety of intended users presented another design problem I needed to work on. To avoid any confusion and misunderstanding, I set out to make the interface as simple and direct as possible. From another point of view, since the audience of this project were comprised of Chinese and Americans, how to present this project was my third concern. As a Chinese student, presenting Chinese information to a Chinese audience was easier than to the American audience. Satisfying both audiences was my original intention. How to find a balanced way to present the project was my other objective.

The last objective of this project was using visual and audio elements to facilitate the users' relationship with the content and make it effortless to use. Through the use of graphics, I wanted not only to enhance the content, but also to stress the theme of the project, and provide a context and create visual landmarks.

All those above are the design problems I defined and objectives I established. After these processes had been accomplished, all the subject matter of the thesis project became clearer to me, and it also made the tasks easier for me to perform.

**Software Concerns**
When I was considering software options for the thesis project, HyperCard first came into my mind. HyperCard, an object-oriented toolkit for database production which can provide a flexible authoring tool, seemed to satisfy all the needs of this project. In addition, its high capacity for combining different media-text, images, sounds, graphics, animation and motion sequences, also made it my first choice. The only weakness that bothered me was the awkwardness of using color in that environment. Color was a very important factor in my design, so I decided to use another new application, SuperCard, which had all
of HyperCard merits and also provided a colorful environment to build up my thesis project.

Being a multimedia system, I had lots of images to deal with, so I had planned to use an NTSC digitizer to digitize the images and Adobe PhotoShop to retouch them. Also Macromind Director was planned to create animation, and MacRecorder to record the sound resources. Those were all the software concerns at this step.
The Design Development Process

After the thesis proposal had been approved, there were several things I tried to accomplish before I started to implement the possible features of this project. They were visiting the CICC, searching for useful Chinese graphics elements, and studying SuperCard. The purpose of visiting the CICC was to get complete information to form the database of this system. Searching Chinese graphics elements helped me to get a better sense of the spirit and beauty of the Chinese art and culture, so it would be easier for me to create an interactive environment that was full of Chinese atmosphere. Further, the study of SuperCard assisted me in the further refinement of my project design.

When the researching part was finished, I started to develop the project design. All the design process can be summed up into the steps described below.

First, I created a storyboard to outline all the services this system provided, and then a project structure to identify the relationship between different services and to determine the navigation paths. Next I began to visualize the interface and screen layout with some rough drawings and sketches. After the basic layout was decided, more attention was focused on the visual metaphors and detailed graphics design. I used Macromind Director to complete the graphics design, and imported them into SuperCard. At this step, most of the graphic design had been done.

Afterward, I created a HyperCard stack to test the scripting and the navigation before I did it in SuperCard. When the scripts were successful, I brought them into the SuperCard project I had created before. I then entered all the data and tested the whole project, iterating the test process to smooth all the navigation paths. The
feedback such as hiliting and sound effects was added after the navigation scripts were completed.

The General Interface Design Techniques
To make the interface of the project consistent and easy to use, there are some general interface design techniques I used throughout the project.

The first technique was the use of three-dimensional looking text-based buttons. The intention of this 3-D effect was to make the buttons stand out from the graphics environment. The use of the text-based button was to minimize confusion and make the real function clear to the users. Besides, I used some graphic-based buttons for visual interest.

The second one was the use of hilites and sound effects. Almost all the buttons in this project had the auto-hilited function. This function accompanied with sound effect gave users enough feedback to know whether the computer was functioning or not. Also these two effects increased the audio-visual interest.

The last technique used in the project was the visual effect. I always used iris open or close to link different sections, and wipe left or right to go through the data cards. In addition, the visual effects were also based on the navigational functions concerned. Most vertical structure relationships used the iris open or close effects; and the horizontal structure relationships used the wipe left or right effects. The using of these effects made the project more consistent.
The CICC Information System
The project was named "The CICC Information System" after lots of consideration. This name was given to both indicate the basic function of this project, and the information provider, the CICC. The CICC Information System is made up of six SuperCard projects-CICC Information System, A Brief Introduction of Chinese Art and Culture, A Special Connection to the CICC, CICC Library, Taipei Gallery and Taipei Theater (Figure 1). The CICC Information System acts as a central link between both 'A Brief Introduction' and 'A Special Connection'. Also the other three projects are linked to 'A Special Connection' which acts as a sub-central link of this system.

Figure 1, The CICC Information System Structure
You can launch this system by double-clicking on the 'CICC Information System' application icon. This will bring you to the first greeting screen (Figure 2). The light-brown and middle-green pattern background, stretched red title and the Chinese calligraphy brush stroke effect on this screen were all used to create a Chinese atmosphere environment. There is also some text below the title to introduce the function of this system and tell you how to continue.

Pressing the mouse button will take you to the second screen which is a card containing service paths (Figure 3). From this point, there will be a common screen design used by the other five sections. It is a middle-green pattern bar placed on the lefthand side that has a system logo on the top. The logo, combining both Chinese characters and English text which means 'The Chinese Information System', was intended to keep the same image as the first screen. All the system navigation buttons were designed to be placed on the bottom of this bar.

On this service paths card, there are two colorful images which indicate special services provided by the CICC Information System: a brief introduction of Chinese art and culture, and a special connection to the CICC. You can click on either one to get the service you need.

**A Brief Introduction to Chinese Art and Culture**
This section provides a brief introduction to Chinese art and culture. When you first access this section, you will see fifteen colorful images placed in the shape of a staircase on the screen (Figure 4). Each image has a green title text bar and acts as a button, used to acquire the specific information. When you click on an image, it will take you to another data card that contains both information and a picture about that topic (Figure 5). After you view the information, you can click on
Figure 2, Initial Greeting Screen

This presentation is an overview of Chinese art and culture provided by the Chinese Information and Culture Center (CICC). To start this system press the right button.

Figure 3, Service Paths Card

The CICC Information System is comprised of two parts. One is a brief introduction of Chinese art and culture that allows you to browse through the information. The other is a special connection to Chinese Information and Culture Center which guarantees special library, gallery and theater services. Click on the screen to get the service you need.

A Brief Introduction to Chinese Art and Culture

A Special Connection to Chinese Info & Culture Center
Figure 4, The Introduction Main Menu Card

Figure 5, A Typical Introduction Data Card
the main menu button to go back to the first screen. 'QUIT INTRO' button will bring you back to the CICC Information System project. I used images instead of a list of topics to display the choices to enhance the interface and make the topics clearer to the users. This works well for the fifteen choices represented, but a more hierarchical design would be required for a more extensive system.

A Special Connection to the CICC
The major function of this section is to let you access the terminal of the Chinese Information and Culture Center. Through the network connection, you can easily get the services of the CICC Library, Taipei Gallery and Taipei Theater from the CICC. The way to access this section is simply clicking the 'A Special Connection' button on the service paths card of the previous section. Once the telecommunication network is connected, there are three feature service buttons showing on the screen (Figure 6). You can click on one of the buttons to access the service you need, and click the 'Quit' button on that section to take you back. This section acts just like the main menu of the CICC services. In addition, two more buttons on the left side provide information about 'What's CICC' and 'Where's CICC', which might be useful for the new users.

The design of those three buttons used a visual metaphor, combining the images of Chinese painting, fan and characters, in order to create a Chinese atmosphere and indicate the meanings of library, gallery and theater. This design worked better as graphics for the general audiences; therefore, I used the English text placed on the bottom to clearly express the functions of the buttons. To keep the visual consistency of the project, this design was also applied to the other three sections.
CICC Library

The CICC Library section is just like an electronic library that provides general library information and allows you to search and reserve the library resources. You can access this section by clicking on the 'CICC Library' button located in the 'Special Connection to CICC' project. It will bring you to the first greeting screen of this section (Figure 7). By pressing the mouse button, a short animation will bring you to another card that contains general information and library access. The visual metaphor of the CICC Library logo is the same as the one used in the CICC main menu section. This same graphic concept applies to the Gallery and Theater section.

The prerequisite to do the library searching or acquire the library resources is being a library member. So when you click on the library access button, the system will ask you whether you are a library member or not. If you are, you can access the searching part by typing in your name; otherwise, you can use this system to apply for your library card. After the system makes sure you are already a library member, the searching button will appear. You can click on it to reach the searching menu card (Figure 8).

The CICC Library provides three different methods to assist you in searching the library resources. They are by title, by subject and by language. Clicking on one of the buttons, the default scripts will create a list of that topic for you by sorting all the data cards. After you choose one field from the list, the computer will generate a virtual stack for you and take you to the first card of that field. You then can go through the detail information of each resource showing on each data card (Figure 9). According to your need, you can either use one of the methods to find the resources you are looking for, or use the browsing button on the same card to browse through all the resources. When you find the book or material you want, you can use
Figure 6, The CICC Main Menu Card

Figure 7, The CICC Library Greeting Screen
Figure 8, CICC Library Search Menu Card

Figure 9, A Typical CICC Library Data Card
the 'reservation' button on the data card to reserve the book, and also use the 'reservation list' button to view the materials you reserve. Those are all the features this section provides to you.

Taipei Gallery
The Taipei Gallery section works just like an electronic billboard, providing the general gallery information and all the gallery's exhibition information. You can use this system to view the coming exhibitions, check the show time and get the general introduction of the exhibition. And for some recommended exhibitions, there will also be the special preview function for you to view representative art pieces in advance.

When you first log onto this section, similar greeting images as the library section will show on the screen. Pressing the mouse button will take you to the general information card (Figure 10). After viewing the gallery's general information, you can click on the 'Coming Exhibition' button to get the brief information of the new exhibitions (Figure 11). Clicking on each exhibition button will take you another data card that contains more detail information (Figure 12). Besides, the 'Special Preview' button will allow you to preview some masterpieces of that exhibition (Figure 13). Any 'General Information' within this section will bring you back to the general information card to view the gallery hours and location.
Figure 10. Taipei Gallery General Information Card

Location: McGRAW-HILL BUILDING
1221 Avenue of the Americas
Concourse Level 2
New York, NY 10020-1577

Admission Fee: Free

Opening Hours: 10:00 a.m. - 5:00 p.m.
Monday - Saturday

Features:
1. The Taipei Gallery exhibits the works of past masters and present Chinese artists who work in traditional and contemporary modes.
2. Another facet of the exhibitions in Taipei Gallery is Taiwan's folk art tradition.
3. Special exhibits at Taipei Gallery present Chinese-American artists' works. They in some way draw inspiration from Chinese art and culture.

Figure 11. Coming Exhibitions Data Card

Leather Sculpture Show
By Chen Li Lin
Storytelling with a Frontier Material
August 24, 1993 - September 24, 1993

Tin Sculpture Exhibition
By Chen Tung Ming
Expression of Ancient Chinese Craft
October 4, 1993 - November 14, 1993

Soho Art Exhibition
By Chinese Artists
A Joint Exhibition of Artists from Soho
November 27, 1993 - January 2, 1994
Figure 12, Detailed Exhibition Data Card

Soho Art Exhibition

Hi Mu Chen, Shiang Chen, C.J. Yee, Dennis Huang, Cho Chung, Mark W.F. Chen, Kunji Gado, James Tang Kang Chen, Y.J. Che, Chihung Yang, Dean E Mei, Ava Houh, each of whom entered works best representing their own skill. These overseas Chinese artists hold varying degrees of artistic aspiration, and varying to their having arrived in New York of different times and such having undergone the effects of artistic influence and the process of recognition or disapproval, each of them displays a different artistic style. In this exhibition, they all had the opportunity to inspect each other's work and listen from each other's personal experiences, as well as to systematically probe the significance of our times in light of what Chinese artists have discovered in New York's trends of artistic thought.

Figure 13, Taipei Gallery Special Preview Card
Taipei Theater

The last section of this system is the Taipei Theater, which provides all the Taipei Theater's performance information and reservation function. Similar to the searching function of the CICC Library, there are also three different methods the Taipei Theater section provides to assist you finding the performance you are interested in. You can search the performance either by program's name, by category, or by show time (Figure 14). When you click on the either 'Searching by Name' or 'Searching by Category' button, a virtual stack will be created for you, which is similar to the searching buttons in the CICC Library. If you want to search by time, the 'Searching by Show Time' button will provide a list of different time periods. You can select one time period to get the performance schedule (Figure 15). Clicking on the program name, you can go to the data card to get more information (Figure 16).

When finding a performance you are interested in, you can use the reservation button on each data card to reserve the tickets. The reservation process includes clicking the reservation button, selecting a show time, answering the question about the type and amount of tickets you need, and finally completing the reservation form for the payment (Figure 17). When you finish the reservation process, you can click on the 'Quit Theater' button which will bring you back to the CICC main menu section. From here you can access another CICC service.
Figure 14, Taipei Theater Search Menu Card

Figure 15, Taipei Theater Performance Schedule Card
Figure 16, Taipei Theater Program Information Card

Figure 17, Taipei Theater Reservation Form
The Conclusion and Evaluation

The first prototype of the CICC Information System has been done. Considering this is an interactive media project, the user’s response becomes a very important factor in evaluating this project. Although there was no formal research or users’ evaluation undertaken, I received feedback throughout the thesis show opening and the committee meetings. In addition, I would like to discuss some ideas that have not been implemented due to time limitations. I hope it will be helpful for the next people who want to develop it into a real project.

First of all, I would like to have short opening animations for all of the sections. The content of the animations might be the demonstration of Chinese folk arts, current news or new CICC services. When the user first logs onto this system, an opening animation with traditional Chinese music would make the whole project more interesting and vivid. Moreover, it might help the users to be aware of the new environment they just logged onto.

A help function that appears within the whole project is another consideration. Observing the reaction during the time while they worked with this system, I found that for some new users who were not familiar with this system, it was easy for them to get lost in the system. A help function providing additional instructions may be useful when the users don’t know what to do next.

Using QTMovies to replace the picture on each data card of the Taipei Theater section is another idea I propose. This gives the user the chance to preview part of the performance, rather than just see a photograph of the show. It might help the user to make a decision about which performance they are interested in. Besides, the using of new technology can always arouse user’s interests.
To extend the content of the introduction section is another important part that should not be ignored. In this prototype, the introduction section only contains some still images and basic information. It might be more interesting to have some short video movies or graphic animations to demonstrate some specific topics. Learning from video is always easier and faster than from reading. This improvement might make the project more effective.

Although the first try of this project has been completed, there is always lots of room for improvement. Before this prototype could develop into a real project, there must be some technical problems and detail designs to be worked out. But as I was working on the project, I couldn’t stop imagining how exciting it would be when this system really works on my computer. Searching the library materials, previewing the gallery’s coming exhibition and making a reservation for my favorite Chinese hand puppetry show at home, everything seems so real to me. I could not wait to see all these dreams come true.


Shaw Yu-Ming. Chinese Information and Culture Center. This paper presents information about the Chinese Information and Culture Center.


Appendix A - Scripts

Scripts of Project 'CICC Info System'

1. card graphic 'Intro' of card 'Service Paths' of window 'Main'
on mousedown
  set the ink of me to blend
  play "clavSwash"
endmousedown

on mouseup
  set the ink of me to notSrcOr
  lock screen
  go to cd "intro list" of window "intro" of project "Brief Intro"
  unlock screen with visual effect iris open slow
end mouseup

2. card graphic 'Connect' of card 'Service Paths' of window 'Main'
on mousedown
  set the ink of me to blend
  play "clavSwash"
endmousedown

on mouseup
  set the ink of me to notSrcOr
  visual iris open slow
  go to cd "opening" of window "CICC" of project "CICC"
end mouseup

3. card graphic 'Quit' of card 'Service Paths' of window 'Main'
on mousedown
  set the ink of me to blend
  play "click"
endmousedown

on mouseup
  set the ink of me to notSrcOr
  answer "Quit CICC Information System?" with "Cancel" or "Yes" at −
  360,210
  if it is "Cancel" then exit mouseup
  if it is "Yes" then
    domenu "quit"
  end if
end if
end mouseup
Scripts of Project 'Brief Intro'

1. card graphic 'Opera' of card 'Intro List' of window 'Brief Intro'
on mousedown
  set the ink of me to blend
  play "clavSwash"
end mousedown

  on mouseup
  set the ink of me to notSrcOr
  lock screen
  go to cd "Opera"
  unlock screen with visual effect iris open slow
end mouseup

2. bkgnd graphic 'Main Menu' of bkgnd 'Brief Intro.bkgd' of window
   'Brief Intro'
on mousedown
  set the ink of me to blend
  play "synDrum"
end mousedown

  on mouseup
  set the ink of me to addMin
  lock screen
  go to cd "intro list"
  unlock screen with visual effect iris close slow
end mouseup

3. bkgnd graphic 'Quit Intro' of bkgnd 'Brief Intro.bkgd' of window
   'Brief Intro'
on mousedown
  set the ink of me to blend
  play "click"
end mousedown

  on mouseup
  set the ink of me to notSrcOr
  answer "Quit the Introduction?" with "Cancel" or "Yes" at 360,210
  if it is "Cancel" then exit mouseup
  if it is "Yes" then
    lock screen
    go to cd "service paths" of wd "main" of project "CICC info System"
    unlock screen with visual iris close slow
  end if
end mouseup
Scripts of Project ‘CICC’

1. card ‘Map of CICC’ of window ‘CICC’
on opencard
   wait 15
   repeat 5 times
      wait 8
      set the ink of cd grc "hilited1" to blend
      set the ink of cd grc "hilited2" to blend
      wait 8
      set the ink of cd grc "hilited1" to notSrcOr
      set the ink of cd grc "hilited2" to notSrcOr
   end repeat
   wait 30
   lock screen
   hide cd grc "hide"
   unlock screen with visual dissolve slow
end opencard

on closecard
   show cd grc "hide"
end closecard

2. card graphic ‘Library’ of card ‘Choices’ of window ‘CICC’
on mousedown
   set the ink of me to blend
   play "clavSwash"
end mousedown

on mouseup
   set the ink of me to notSrcOr
   lock screen
   go to cd 1 of wd 1 of project "CICC Library"
   unlock screen with visual effect iris open slow
end mouseup

Scripts of Project ‘CICC Library’

1. project ‘CICC Library’
on startUp
   editor
end startUp

on openproject
   hide menubar
   global reservelist, namecount, confirmname, reservecount
   put empty into reservelist
put 0 into namecount
put 0 into reservecount
put empty into confirmname
end openproject

2. **card graphic 'Library Access' of card 'General Info' of window**

   **'Opening'**

   on mousedown
   set the ink of me to blend
   play "Harp"
   end mousedown

   on mouseup
   global confirmname
   set the ink of me to addMin
   answer "Are you a CICC library member?" with "No" or "Yes" at 325,195
   if it is "No" then
     lock screen
     show cd grc "apply library card"
     show cd grc "apply button"
     unlock screen with visual venetian blinds very fast
   else
     ask "Please type in your name first." at 325,195
     if it is not empty then
       put it into confirmname
       lock screen
       show cd grc "search button"
       unlock screen with visual dissolve
       answer "Click SEARCH RESOURCES button to continue." with ← "O.K" at 325,195
     wait 10
     repeat 3 times
       play "click"
       set the ink of cd grc "Search Resources" to blend
       set the ink of cd grc "Search Resources" to notSrcOr
     end repeat
   else
     exit mouseup
   end if
end if

3. **card graphic 'Apply Button' of card 'General Info' of window**

   **'Opening'**

   on mousedown
   set the ink of me to blend
play "Gong"
end mousedown

on mouseup
  set the ink of me to addMin
  lock screen
  hide cd grc "apply library card"
  hide cd grc "apply button"
  go to cd "Application Form"
  unlock screen with visual wipe right slow
end mouseup

4. card graphic 'Done' of card 'Application Form' of window 'Opening'
on mousedown
  set the ink of me to blend
end mousedown

on mouseup
  global counter, confirname
  set the ink of me to addMin
  if counter = 1 then
    play "synDrum"
    put cd fld "name" into confirname
    lock screen
    hide cd grc "confirmation"
    unlock screen with visual dissolve
    visual effect wipe left slow
    go to cd "general Info"
    lock screen
    show cd grc "search button"
    unlock screen with visual dissolve
    repeat 3 times
      play "click"
      set the ink of cd grc "Search Resources" to blend
      set the ink of cd grc "Search Resources" to notSrcOr
  end repeat
else
  select empty
  if cd fld "name" is empty or cd fld "SS#" is empty or cd fld "birthday" is empty or cd fld "address" is empty or cd fld "phone no." is empty then
    play "hornswhash"
    answer "Please fill the form completely." with "Cancel" or "O.K." at 325,195
  if it is "cancel" then
    lock screen
    go to cd "general Info"
  unlock screen with visual wipe left
else
select before line 1 of cd fld "Name"
end if
else
play "clavswash"
lock screen
show cd grc "confirmation"
unlock screen with visual venetian blinds very fast
add 1 to counter
end if
end if
end mouseup

5. card graphic ‘Confirmation’ of card ‘Application Form’ of window ‘Opening’
on mouseup
play "synDrum"
global confirmname
lock screen
hide cd grc "confirmation"
unlock screen with visual dissolve slow
put cd fld "name" into confirmname
visual effect wipe left slow
go to cd "general Info"
lock screen
show cd grc "search button"
unlock screen with visual dissolve
repeat 3 times
play "click"
set the ink of cd grc "Search Resources" to blend
set the ink of cd grc "Search Resources" to notSrcOr
end repeat
end mouseup

6. card graphic ‘Browse’ of card ‘Search List’ of window ‘Opening’
on mousedown
set the ink of me to blend
play "gong"
end mousedown

on mouseup
global wholestack
put true into wholestack
set the ink of me to notSrcOr
lock screen
go to card 1 of window "Data"
unlock screen with visual effect wipe left slow
end mouseup
7. card graphic 'Subject' of card 'Search List' of window 'Opening'
on mousedown
  set the ink of me to blend
  play "gong"
end mousedown

on mouseUp
  put empty into cd fld subjectlist
  set cursor to watch
  set lockscreen to true
  go to cd 1 of wd "Data"
  sort by fld "Subject"
  put field "Subject" into currentSubject
  put currentSubject&return into Subjectlist
  put short id of this card&return into idlist
  repeat numberof cards -1
    go next
    if currentSubject is field "Subject" then
      put short id of this card &return after idlist
    else
      put field "Subject"&return after Subjectlist
      put field "Subject" into currentSubject
      put "," & short id of this card &return after idlist
    end if
  end repeat
  go cd "search list" of wd "opening"
  set lockscreen to false
  lock screen
  show cd fld "Subjectlist"
  unlock screen with visual effect wipe right slow
  set the ink of me to notSrcOr
  put subjectlist into cd field "Subjectlist"
  put idlist into cd field "idlist"
  set the cursor to "hand"
end mouseUp

8. card field 'SubjectList' of card 'Search List' of window 'Opening'
on clicklist
  play "click"
  global thelist, index, wholestack
  put the hilitiedLines of cd fld "Subjectlist" into lineNumber
  put item linenumbeer of cd field idlist into thelist
  put 1 into index
  put false into wholestack
  put last word of line index of theList into cardid
  visual effect wipe left
  go to card id cardid of wd "Data Cards" --show the card
end clicklist
9. bkgnd graphic 'Next' of bkgnd 'Data Cards.bkgd' of window 'Data Cards'
on mousedown
set the ink of me to blend
end mousedown

on mouseUp
global index, thelist, wholestack
set the ink of me to notSrcOr
if wholestack is true then
  lock screen
  go to next card of this bg
unlock screen with visual effect wipe right slow
else --we have a customized database
  if index < the number of lines in thelist then
    add 1 to index
    put last word of line index of theList into cardid
    lock screen
    go to card id cardid
unlock screen with visual effect wipe right slow
  else
    beep
    answer "There is no more item in this search area." with "O.K." at –
    325,195
  end if
end if
end mouseUp

10. bkgnd graphic 'Reserve' of bkgnd 'Data Cards.bkgd' of window
    'Data Cards'
on mousedown
set the ink of me to blend
end mousedown

on mouseup
global reservelist, namecount, reservecount, confirmname
set the ink of me to notSrcOr
add 1 to namecount
if reservecount > 2 then
  beep
  answer "You can only reserve up to 3 books!" with "O.K." at 325,195
exit mouseup
end if
if namecount = 1 then
  play "Harp"
  answer "Remember! You can reserve up to 3 books." with "O.K." at –
  325,195
end if
if bg fld "Status" contains "available" then
    play "clavswash"
    answer "Do you want to reserve this book?" with "Cancel" or "Yes" at 325,195
    if it is "yes" then
        put "Reserved" into bg fld "status"
        play "gong"
        answer "Please pick up this book within two days." with "O.K." at 325,195
        put bg fld "title" & return after reservelist
        add 1 to reservecount
    end if
else
    play "syndrum"
    answer "This book is not available right now." with "O.K." at 325,195
    play "hornswash"
    answer "Do you want your name on the waiting list?" with "Cancel" or "Yes" at 325,195
    if it is "Yes" then
        play "gong"
        answer "We'll inform you when the book is available" with "O.K." at 325,195
    end if
end if
end if

11. bkngd graphic 'Reserve List' of bkngd 'Data Cards.bkgd' of
window 'Data Cards'
on mousedown
    set the ink of me to blend
end mousedown

on mouseup
    set the ink of me to notSrcOr
global reservelist, confirmname
    set the ink of me to notSrcOr
    put "Dear" & confirmname & ":" & return & return & 
    "We'll hold the books listing" & 
    "below for you for two days." & return & 
    "-----------------------------------------------" & return & reservelist into bg fld "reservelist"
    show bg fld "reservelist"
    show bg grc "DoneGrc"
    show bg grc "DoneBtn"
end mouseup
Scripts of Project ‘Taipei Gallery’

1. card graphic ‘Coming Exhibits’ of cd ‘General Info’ of window ‘Gallery Info’
on mousedown
   set the ink of me to blend
   play "harp"
end mousedown

   on mouseup
       set the ink of me to notSrcOr
       lock screen
       go to cd "coming exhibitions"
       unlock screen with visual effect wipe left slow
end mouseup

2. card graphic ‘Soho Art’ of cd ‘Coming Exhibitions’ of window ‘Gallery Info’
on mousedown
   set the ink of me to blend
   play "clavSwash"
end mousedown

   on mouseup
       set the ink of me to notSrcOr
       lock screen
       go to cd "soho.1"
       unlock screen with visual effect wipe left slow
end mouseup

3. card graphic ‘Special Preview’ of cd ‘Soho.2’ of window ‘Gallery Info’
on mousedown
   set the ink of me to blend
   play "Gong"
end mousedown

   on mouseup
       set the ink of me to addMin
       lock screen
       go to cd "Special preview.1"
       unlock screen with visual effect wipe left slow
end mouseup
Scripts of Project 'Taipei Theater'

1. project 'Taipei Theater'
   on startup
     editor
   end startup
   
on openproject
     global theDate, theProgram, Std.Quantity, AdultQuantity
     put empty into theDate
     put empty into theProgram
     put empty into cd fld "Std.Quantity" of cd "reservation"
     put empty into cd fld "AdultQuantity" of cd "reservation"
   end openproject

2. card graphic 'Month' of cd 'Search' of window 'List'
   onmousedown
     set the ink of me to blend
     play "gong"
   endmousedown
   
on mouseup
     lock screen
     show cd fld "Schedule"
     unlock screen with visual effect wipe right slow
     set the ink of me to notSrcOr
   end mouseup

3. card field 'Schedule' of cd 'Search' of window 'List'
   on clicklist
     global wholestack
     put true into wholestack
     put the hilitedLines of cd fld "Schedule" into lineNumber
     lock screen
     go to cd lineNumber of wd "schedule"
     unlock screen with visual iris open slow
   end clicklist

4. card graphic 'Category' of cd 'Search' of window 'List'
   on mousedown
     set the ink of me to blend
     play "gong"
   endmousedown
   
on mouseup
     put empty into cd fld categorylist
     set cursor to watch
set lockscreen to true
go to cd 1 of wd "Data Cards"
sort by fld "category"
put field "category" into currentcategory
put currentcategory&return into categorylist
put short id of this card&return into idlist
repeat number of cards -1
go next
if currentcategory is field "category" then
put short id of this card &return after idlist
else
put field "category"&return after categorylist
put field "category" into currentcategory
put ",", & short id of this card &return after idlist
end if
end repeat
go cd "search" of wd "list"
set lockscreen to false
lock screen
show cd fld "categorylist"
unlock screen with visual effect wipe right slow
set the ink of me to notSrcOr
put categorylist into cd field "categorylist"
put idlist into cd field "idlist"
set the cursor to "hand"
end mouseUp

5. card field ‘CategoryList’ of cd ‘Search’ of window ‘List’
on clicklist
   global thelist, index, wholestack
   put the hilitiedLines of cd fld "categorylist" into lineNumber
   put item linenumber of cd field idlist into thelist
   put 1 into index
   put false into wholestack
   put last word of line index of theList into cardid
   visual effect wipe left
   go to card id cardid of wd "Data Cards" --show the card
end clicklist

6. window ‘Data Cards’
on ReserveTicket
   global popOK, theDate, theProgram, Std.Quantity, AdultQuantity
   wait 10
   answer "What kind of tickets do you want?" with "Cancel" or "Student" →
or "Adult" at 325,195
   if it is "Student" then
      wait 10
ask "how many tickets do you want?" at 325,195
if it is not empty then
    put it & return after Std.Quantity
    put "." & return after AdultQuantity
end if
else if it is "Adult" then
    wait 10
    ask "how many tickets do you want?" at 325,195
    if it is not empty then
        put it & return after AdultQuantity
        put "." & return after Std.Quantity
    end if
else
    exit ReserveTicket
end if
wait 10
answer "Do you want to make other reservations?" with "No" or "Yes" at 325,195
set cursor to "watch"
if it is "No" then
    push card
    lock screen
    go to cd "reservation" of wd "List"
    unlock screen with visual wipe left slow
end if
set cursor to "hand"
end ReserveTicket

7. bkgnd graphic ‘Reservation’ of bkgnd ‘Data Cards.bkgd’ of window
   ‘Data Cards’
on mousedown
    set the ink of me to addOver
    play "Gong"
end mousedown

don mouseup
    set the ink of me to addMin
    answer "Do you want to make a reservation?" with "Cancel" or "Yes" at 325,195
    if it is "Yes" then
        play "gong"
        answer "Click on SHOW TIME button to select the time." with "Cancel" or "O.K." at 325,195
        if it is "O.K." then
            wait 10
            repeat 3 times
                play "click"
wait 3
   set the ink of cd grc "theDate" to blend
   wait 3
   set the ink of cd grc "theDate" to notSrcOr
end repeat
end if
end if
end mouseup

8. card graphic ‘theDate’ of cd ‘Chinese Acrobatics 1’ of window ‘Data Cards’
on mousedown
   set the ink of me to blend
   play "Click"
   global PopOK
   put "false" into PopOK
   popup menu "Acrobatics I" at 287,340
end mouseDown

on mouseUp
   global PopOK, Std.Quantity, AdultQuantity
   if PopOK = false then
      answer "Hold down mouse to select a show time." with "O.K." at 325,195
      set the ink of me to notSrcOr
   else if PopOK = true then
      set the ink of me to notSrcOr
   end if
end mouseUp

9. item ‘Aug 15 - 7:30 pm’ of menu ‘Acrobatics 1’ of window ‘Data Cards’
on itemSelect
   global popOK, theDate, theProgram, Std.Quantity, AdultQuantity
   put true into popOK
   play "click"
   set the ink of cd grc "theDate" to notSrcOr
   get the short name of me
   put it & return after theDate
   put bg fld "program" & return after theProgram
   ReserveTicket
end itemSelect

10. card ‘Reservation’ of window ‘List’
on opencard
   global theDate, theProgram, Std.Quantity, AdultQuantity
   set the cursor to watch
put empty into cd fld "name"
put empty into cd fld "phone no."
put empty into cd fld "address"
put empty into cd fld "credit card"
put theDate into cd fld "theDate"
put theProgram into cd fld "theProgram"
put Std.Quantity into cd fld "Std.Quantity"
put AdultQuantity into cd fld "AdultQuantity"
set the cursor to hand
select before line 1 of cd fld "name"
end opencard

11. card graphic 'Done' of card 'Reservation' of window 'List'
on mousedown
set the ink of me to blend
end mousedown

on mouseup
global counter, confirmname, theDate, theProgram, Std.Quantity, \rightarrow
AdultQuantity
set the ink of me to addMin
if cd fld "name" is empty or cd fld "Phone no." is empty or cd fld \rightarrow
"address" is empty or cd fld "Credit Card" is empty or cd fld \rightarrow
"Valid Date" is empty then
play "hornswash"
answer "Please fill the form completely." with "Cancel" or "O.K." at \rightarrow
325,195
if it is "cancel" then
play "syndrum"
answer "Sorry! We can't complete your reservation." with "O.K." at \rightarrow
325,195
put empty into theDate
put empty into theProgram
put empty into Std.Quantity
put empty into AdultQuantity
lock screen
pop card
unlock screen with visual wipe right slow
else
select before line 1 of cd fld "Name"
end if
else
play "syndrum"
select empty
answer "The tickets will be mailed to you in one week." with "O.K." at \rightarrow
325,195
lock screen
pop card
unlock screen with visual wipe right slow
end if
end mouseup

12. card graphic 'Cancel' of card 'Reservation' of window 'List'
on mousedown
set the ink of me to blend
play "synDrum"
end mousedown

on mouseup
set the ink of me to addMin
global theDate, theProgram, Std.Quantity, AdultQuantity
put empty into theDate
put empty into theProgram
put empty into Std.Quantity
put empty into AdultQuantity
lock screen
pop card
unlock screen with visual wipe right slow
end mouseup