Implementation of Chinese of Primary-School teaching resources Courseware

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Abstract. With advances in information technology and extensive application, education of school also is undergoing profound changes. Chinese of Primary-School teaching resources interactive courseware is a show based on the PPT resources system, which mainly use the VBA technology of PPT transfer EXCEL data in resources, access to teaching resources to achieve the efficient, thus enabling teachers to use this scheme to collect teaching Resources, easily achieve execution of teaching resources courseware.

Keywords: teaching resources, courseware, VBA, PPT

Introduction

Multimedia courseware in the 21st century one of the most popular of the ten industries. Because education has its particularity, and the courseware is educated by teachers or used directly in the teaching process, so the design and production of courseware for teaching objectives must be reflected, the performance of specific course content, teaching strategies must reflect. Good courseware can be random, flexible, comprehensive, three-dimensional approach to teaching the content of the image, and vividly presented to the students. Therefore, how to use a small amount of time to produce a fine education courseware possible issue of common concern. This paper introduced a courseware program, so that teachers use this program to collect relevant teaching resources, easy to use teaching resources PPT presentation courseware system that allows teachers to get rid of present teaching resources based courseware production troubles, to improve teaching efficiency.

Primary Teaching Resources Software System, is a VBA-based technology[1], set the language of the course (vocabulary learning, text analysis, text reading, etc.) text, audio, video, animation and other teaching resources in one of the courseware system, teachers in primary school language teaching Resources courseware system, only need to collect relevant teaching resources, teaching resources can easily render and resource sharing. This reduces the production time of courseware, but also made Mao's silent line and multimedia courseware.

1. System components

Primary school language teaching resources interactive courseware system, is a variety of functional modules according to the specific division can be divided into two major modules, the basic composition of the system shown in Figure 1.
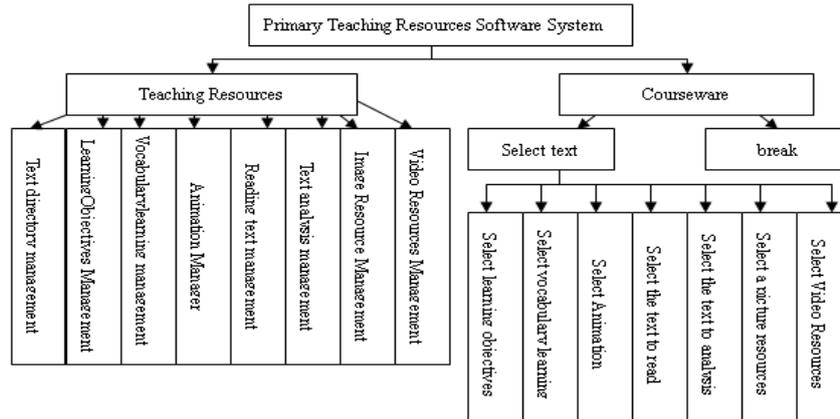

Fig. 1. Composition of System

It can be seen from the system constitute the function of this system, teachers use this system to collect relevant teaching resources and courseware in teaching the use of the presentation can be random flexible teaching resources, in order to achieve all-round, three-dimensional way of teaching. Primary language teaching courseware system has two main modules constitute.

Resource management module, the use of EXCEL worksheet teaching resources easily add, delete, edit and other functions, to enable teachers to manage.

Teaching resources based courseware module, through a few slides and a few buttons on the slide presentation can be easily (learning objectives, vocabulary learning, animation, text reading, text analysis, image resource and video resources etc.) of multimedia teaching resources.

2. The design of teaching resources

Teaching resources have been designed to EXCEL worksheet in the design-based[2], and reasonable EXCEL design can improve the efficiency of data storage to ensure data integrity and consistency. At the same time, reasonable structure EXCEL worksheet will help with program and data calls, the other EXCEL practical and easy to operate and so be more user-friendly.

Through the primary language of teaching resources to analyze, design the worksheet shown below (Figure 2):
● List of tables and text (the text number, text name)
● Learning Objectives form (text number, target number, target content)

- Words list (text number, word number, word, vocabulary pictures, words pronunciation files, animation files vocabulary strokes)
- Read the text table (text number, paragraph number, read the contents of paragraphs sound files)
- Text analysis table (text number, serial number analysis, analysis of content)
- Picture material form (text number, picture number, picture file)
- Video material form (text number, video serial number, video files)
- Animated material form (text number, serial number animation, animation files)

Fig. 2. Teaching resource design

3. Courseware design

3.1. The design of stampers of Courseware

In the courseware, we made nine slides stampers，They are used in the slides of Directory, the slides of Learning objectives, he slides of New word learning, the slides of Animation demo, the slides of The text reading, the slides of The text analyses, the slides of Picture resources, the slides of Video resource, and Blank stampers， the stampers of Each slide are different， the four word in the stampers of the slides of New word learning, Such as "new learning", is marked with different fonts，User clear their current position of the slides and slides presentation，According to this method, application for other slides stampers makes stampers play navigation role [3]，then accurate links other slideshow.

3.2. The design of interface

The interface of PPT mainly through each control realize the dynamic interaction, Figure 3 shows the design of interface.

Fig. 3. Interface design

3.3. The design of main code of VBA

The design of Public module code [4]
- The declaration of general variable and object.
```
Public cn As ADODB. Connection
Public rs As ADODB. Recordset
Public kwbh
```
- The initialization at the end of courseware
```
Sub OnSlideShowTerminate()
    MsgBox "Good bye, and take care! "
    Slide2.ListBox1.Clear
    cn.Close
    Slide4.CommandButton2.Enabled = True
    Slide4.CommandButton3.Enabled = True
    Slide4.CommandButton4.Enabled = True
    Slide4.CommandButton5.Enabled = True
```

```
    ......
  End Sub
```

- When courseware started running, the initialization and the code design of corresponding control.

```
  Sub OnSlideShowPageChange()
      If
ActivePresentation.SlideShowWindow.View.CurrentShowPosition = 1
Then
          MsgBox "I love you, PowerPoint."
      End If
      If
ActivePresentation.SlideShowWindow.View.CurrentShowPosition = 2
Then
       Slide2.ListBox1.Clear
       Set cn = New ADODB.Connection
       Set rs = New ADODB.Recordset

cn.ConnectionString="Provider=Microsoft.Jet.OLEDB.4.0;Persist
Security Info=false;Data
   Source=jxzy.xls;Extended Properties='Excel 8.0;HDR=Yes'"
      cn.Open
      rs.Open "select * from [dir$] ", cn, adOpenKeyset,
adLockOptimistic
      n = rs.RecordCount
      For i = 1 To n
       Slide2.ListBox1.AddItem rs.Fields(1)
        rs.MoveNext
      Next i
     End If
      If
ActivePresentation.SlideShowWindow.View.CurrentShowPosition = 4
Then
         rs.Open "select * from [learnig$] where yuwenNo=" &
kwbh, cn, adOpenKeyset,
   adLockOptimistic
         Slide4.InkPicture1 = LoadPicture(rs1.Fields(3))
         Slide4.WindowsMediaPlayer1.URL = rs1.Fields(4)
      End If
      ......
  End Sub
  ......
```

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