



基督教圣经灵修中心

——数据库技术及应用课程项目设计报告

课程名： 《数据库技术与应用》

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专业： 土木工程

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同济大学

- 1 -

《数据库技术与应用》 项目设计报告

项目设计报告题目：

基督教圣经灵修中心

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课题设计报告内容

1. 课题设计目的和意义

圣经都是神所默示的，（或作凡神默示的圣经）于教训，督责，使人归正，教导人学义，都是有益的。〈提摩太后书 3：16〉

作为一名基督徒，《圣经》是我们每一个基督徒信仰生活的指南针，因为当中涵盖了神要向人启示的真理。圣经由“旧约”和“新约”组成。“约”的概念标示出神与人所建立的关系。

你们查考圣经。（或作应当查考圣经）因你们以为内中有永生。给我作见证的就是这经。〈约翰福音 5：39〉

而每日对圣经的阅读，尤其对经文的研究中，会发现，寻找各个版本圣经的必要性。由于圣经的版本很多，因着翻译方式的不同，可以让你从很多不同的角度来理解，外加，除了中文版圣经外，其他国外圣经的价格都很昂贵，并且也不易查到。所以，这个课程设计的伊始，当发现需要和信息查询有关，就立刻想到了做个圣经查询系统，来方便每一个，需要更多聆听神话语的人。

于此同时，基督教最为世界的三大宗教之一，在中国这个没有国家信仰的国度，缺少的不是对其的了解，缺少的是对真正的基督教的了解。由于时间的有限，不能把很多基督教其他内容加入，但《圣经》作为基督教信仰最根本的信息，但愿有所帮助。

基督教圣经灵修中心主要是对几个不同语种、不同版本的《圣经》进行阅读、比照以及版本信息查询研习的系统。

因为不明白圣经，也不晓得神的大能。〈马太福音 22：29〉

在这里，感谢神在我心内埋下的感动和意念，时间仓促，做这个系统也不够完善，但因着圣经各个版本的数据和代码在国外网上都是开源的，所以省了我对数据库本身内部数据的处理，愿神祝福我们每一个在他的话语里被开启的人。为之祈祷！

于是耶稣开他们的心窍，使他们能明白圣经。〈路加福音 24：45〉

2. 课题主要功能描述

2.1 系统登录

系统的登录是可选择性的，但是为了满足不同用户对《圣经》查询系统的使用，注册用户可以使用笔记功能，即，在不同的经文出留下自己的感悟或者记录，下次再点入该版本的该经文时，笔记会随着经文一起出现。而不注册用户可以查询所有《圣经》经文信息，但不能留下自己个性化的笔记。但任何用户，无论注册与否，都可以通过信息反馈给管理员留言。

作为管理员，我们通过口令检验进入，主要权能在于可以查看所有已注册的用户信息和用户使用本系统后留下的建议。最后进入系统也是一样通过自己的用户名和密码进入的。

2.2 信息查询系统

在本系统中，《圣经》本身是基本信息，但同时，圣经的语言和版本得到了进一步的增加，包括中文的和合本，而英语的话，基本涵盖了最常用的 5 个版本，ESV, KJV, ISV, BWE 和 JST，德语的路德版，包括希伯来语圣经（这些圣经版本区别等信息，在圣经版本简介界面里，都有了）。

而对于《圣经》的查询，为了方便用户使用，我们分成了两种方式查询，一种是双版本的对比

查询,可以比照不同版本圣经的语言内容;第二种,是圣经经文的精确定位,为了方便对经文的查询;同时,这样的查询还包括很多问题,比如,每个版本的圣经其实章节数目是不一致的,因为翻译过来为了通顺,多少有一些删节,所以,在选到特殊章节的时候,系统会显示出这两个版本存在的差异。

2.3 用户信息关系

用户会有删除,对于长期不使用的用户可以予以删除。同时,意见反馈的功能,方便管理员可以看见用户的需求,进行更人性化、对用户更友好的功能改进。意见反馈内的消息也可删除,方便处理并更新。

3. 数据库设计

3.1 数据需求分析

基督教圣经灵修中心主要是对几个不同语言版本和同语言版本的英语《圣经》进行查询和对比的系统,包括《圣经》的语言,版本,书卷名称,章节号,版本简介。而且,根据不同用户对圣经内容查询的需要,对不同用户赋予不同的功能权限。

总结出以下的需求信息:

- ✚ 管理人员可以对已注册用户的信息进行查询、删除,并阅读用户反馈的使用意见
- ✚ 所有用户可以在任何情况下,登陆系统查询圣经内容
- ✚ 注册用户可以在查询圣经时留下自己个性化的阅读笔记
- ✚ 圣经可以在不同版本间对比并切换
- ✚ 每句经文都有其对应的书卷、对应的章节号,对应的语言和版本

经过上述需求总结,设计如下所示数据项和数据结构。

由于经文的查询很细节,所以,数据库的实体十分细化,以便于查询时,数据的提取首先,对圣经本身,设计如下

✚ Language<语言>

包括的数据项有: language, name

✚ Version<圣经版本>

包括的数据项有: initial; language; osisRef; title; describe

<注释: initial 为版本的简称,比如中文和合本 'ChiUns', 而英文则是首字母缩写,如 KJV, ESV 等; osisRef 类似 'Bible. ChiUns', 是直接取自 xiphos 的内部数据, 这个报告后文介绍数据来源的时候会做说明>

✚ Book<经文所在书卷>

包括的数据项有: book ;index;name ;describe ;testament; group

✚ Key<经文对应的版本书卷章节>

包括的数据项有: osisID ;book ;chapter; verse

<注释: osisID 类似 'Gen. 1. 1' 这样的格式化字符串, 表明所在的书卷的章节号>

✚ Text<圣经经文>

包括的数据项有: osisID; initial; text

其次,对系统用户,设计如下

✚ UserInfo<用户信息>

包括的数据项有: username; groupID; password; email

✚ UserGroup<用户分组>

包括的数据项有: groupID, groupName;

最后, 对系统的用户使用, 有如下

✚ Note<注册用户阅读笔记>

包括的数据项有: osisID; username; content; timestamp;

✚ Suggestion<用户意见反馈信息>

包括的数据项有: username; suggestion; timestamp

其他

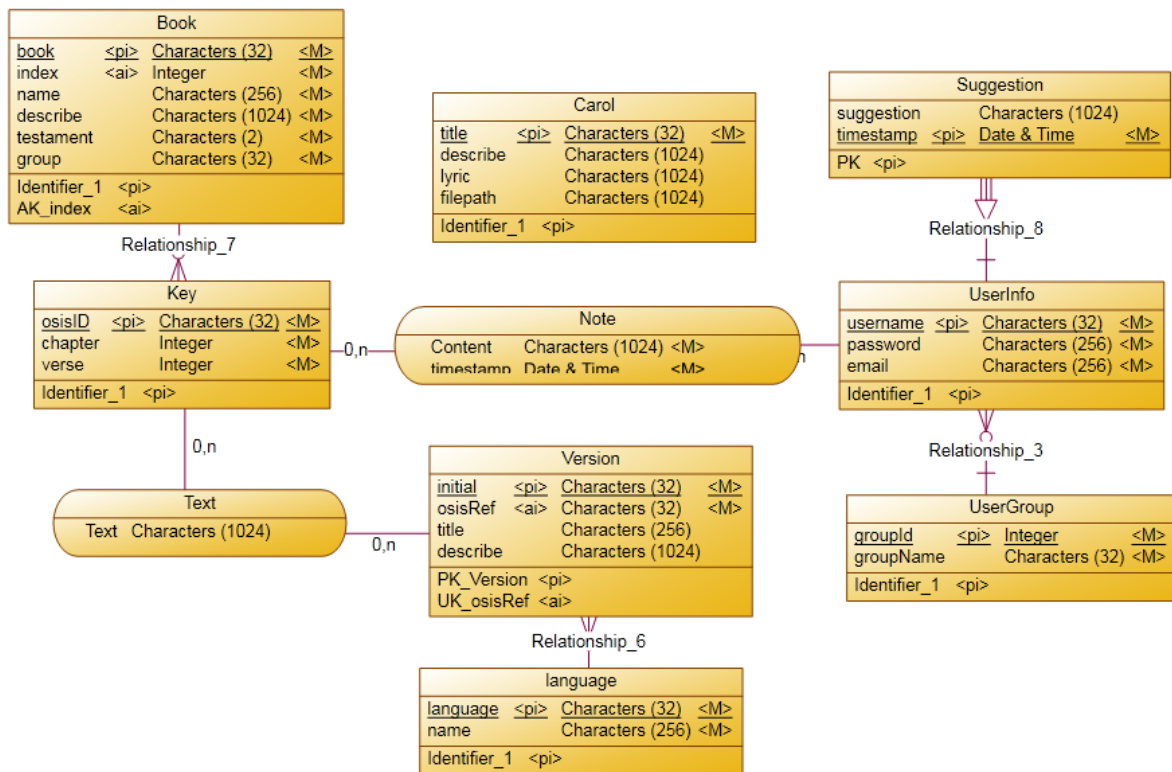
✚ Carol<赞美诗>

包括的数据项有: title; describe; lyric; filepath;

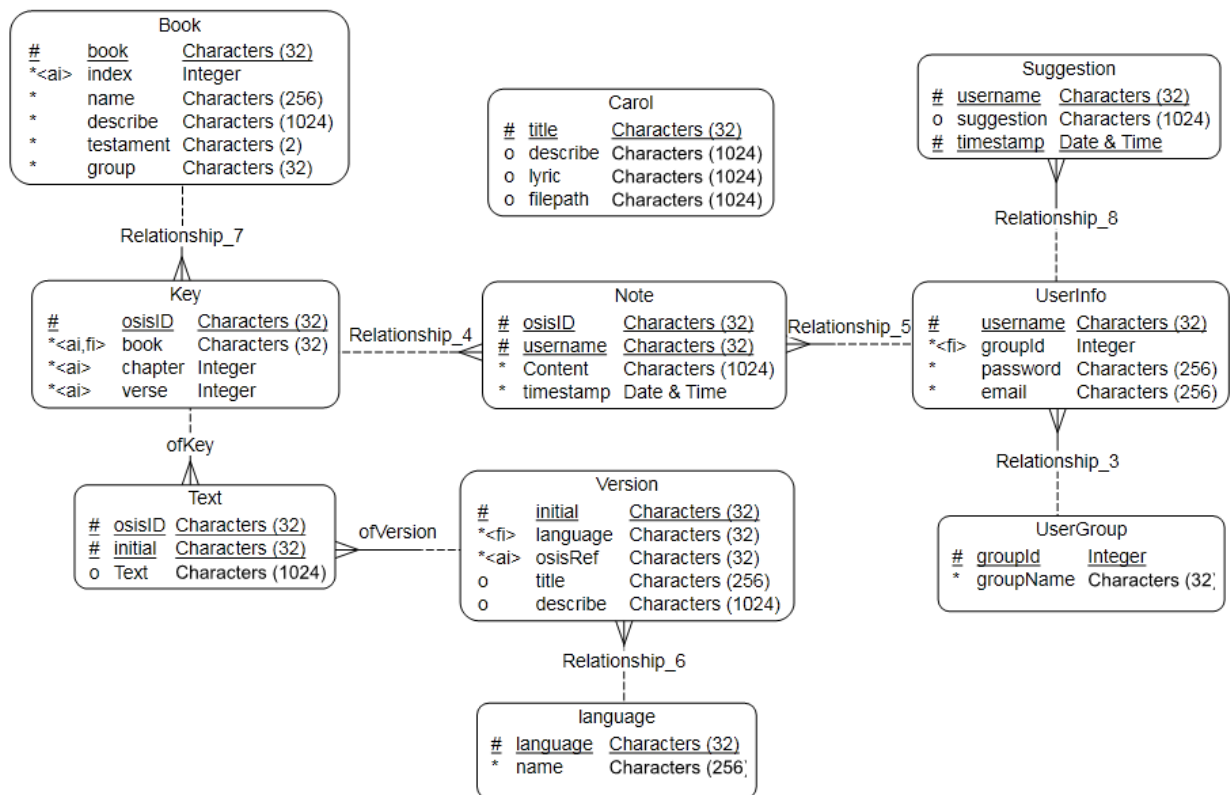
3.2 概念模式设计 (E-R 图设计)

根据上面的设计, 规划出的实体有:

Book, Key, Text, Version, Carol, Note, Language, Suggestion, UserInfo, UserGroup



3.3 逻辑模式设计（转换为关系模式和规范化处理）



此图由 Powerdesigner 绘出, 建表 create 部分的代码也为其自动生成

3.4 数据库实施

3.4.1 数据库表的创建

1. 表 book

| ANGELA-PC.angelalible - dbo.Book BWE.sql - ANGELA-PC.angelalible | | | |
|--|-----------|------------|--------------------------|
| | 列名 | 数据类型 | 允许 Null 值 |
| | book | char(32) | <input type="checkbox"/> |
| | [index] | int | <input type="checkbox"/> |
| | name | char(256) | <input type="checkbox"/> |
| | describe | char(1024) | <input type="checkbox"/> |
| | testament | char(2) | <input type="checkbox"/> |
| | [group] | char(32) | <input type="checkbox"/> |

```

/*=====*/
/* Table: Book */
/*=====*/

create table Book (
    book          char(32)          not null,
    "index"       int              not null,
    name          char(256)         not null,
    describe      char(1024)        not null,
    testament     char(2)           not null,

```

```

"group"          char(32)          not null,
constraint PK_BOOK primary key nonclustered (book),
constraint AK_AK_INDEX_BOOK unique ("index")
)
go

```

2. 表 Key



| 列名 | 数据类型 | 允许 Null 值 |
|---------|----------|--------------------------|
| osisID | char(32) | <input type="checkbox"/> |
| book | char(32) | <input type="checkbox"/> |
| chapter | int | <input type="checkbox"/> |
| verse | int | <input type="checkbox"/> |

```

/*=====*/
/* Table: "Key"                                     */
/*=====*/
create table "Key" (
    osisID          char(32)          not null,
    book            char(32)          not null,
    chapter         int              not null,
    verse           int              not null,
    constraint PK_KEY primary key nonclustered (osisID),
    constraint AK_UK_BOOK_CHAPTER_VE_KEY unique (chapter, verse, book)
)
go
alter table "Key"
    add constraint FK_KEY_RELATIONS_BOOK foreign key (book)
        references Book (book)
        on update cascade on delete cascade
go

```

3. 表 language



| 列名 | 数据类型 | 允许 Null 值 |
|----------|-----------|-------------------------------------|
| language | char(32) | <input type="checkbox"/> |
| name | char(256) | <input checked="" type="checkbox"/> |

```

/*=====*/
/* Table: language                                     */
/*=====*/
create table language (
    language        char(32)          not null,
    name            char(256)         not null,

```



```
constraint PK_LANGUAGE primary key nonclustered (language)
```

```
)
```

```
go
```

4. 表 Note

| ANGELA-PC.angelabile - dbo.Note | | | |
|---------------------------------|------------|--------------------------|--|
| 列名 | 数据类型 | 允许 Null 值 | |
| osisID | char(32) | <input type="checkbox"/> | |
| username | char(32) | <input type="checkbox"/> | |
| [Content] | char(1024) | <input type="checkbox"/> | |
| timestamp | datetime | <input type="checkbox"/> | |

```
/*=====*/
```

```
/* Table: Note */
```

```
/*=====*/
```

```
create table Note (
    osisID          char(32)          not null,
    username        char(32)          not null,
    Content         char(1024)        not null,
    timestamp       datetime          not null,
    constraint PK_NOTE primary key nonclustered (osisID, username)
)
```

```
)
```

```
Go
```

```
alter table Note
```

```
add constraint FK_NOTE_RELATIONS_KEY foreign key (osisID)
references "Key" (osisID)
on update cascade on delete cascade
```

```
go
```

```
alter table Note
```

```
add constraint FK_NOTE_RELATIONS_USERINFO foreign key (username)
references UserInfo (username)
on update cascade on delete cascade
```

```
go
```

5. 表 Suggestion

| ANGELA-PC.angelab... - dbo.Suggestion | | | |
|---------------------------------------|------------|-------------------------------------|--|
| 列名 | 数据类型 | 允许 Null 值 | |
| username | char(32) | <input type="checkbox"/> | |
| suggestion | char(1024) | <input checked="" type="checkbox"/> | |
| timestamp | datetime | <input type="checkbox"/> | |

```
/*=====*/
```

```
/* Table: Suggestion */
```

```
/*=====*/
```

```
create table Suggestion (
```

```

username          char(32)          not null,
suggestion         char(1024)        null,
timestamp          datetime          not null,
constraint PK_SUGGESTION primary key nonclustered (username, timestamp)
)

```

Go

```

alter table Suggestion
    add constraint FK_SUGGESTI_RELATIONS_USERINFO foreign key (username)
        references UserInfo (username)
        on update cascade on delete cascade

```

go

```

/*=====*/
/* Index: Relationship_8_FK                                     */
/*=====*/
create index Relationship_8_FK on Suggestion (
username ASC
)

```

Go

6. 表 Text

| ANGELA-PC.angelabile - dbo.Text ANGELA-PC.ange | | | |
|--|------------|-------------------------------------|--|
| 列名 | 数据类型 | 允许 Null 值 | |
| osisID | char(32) | <input type="checkbox"/> | |
| initial | char(32) | <input type="checkbox"/> | |
| Text | char(1024) | <input checked="" type="checkbox"/> | |

```

/*=====*/
/* Table: Text                                               */
/*=====*/
create table Text (
    osisID          char(32)          not null,
    initial         char(32)          not null,
    Text            char(1024)        null,
    constraint PK_TEXT primary key nonclustered (osisID, initial)
)

```

go

```

alter table Text
    add constraint FK_TEXT_OFKEY_KEY foreign key (osisID)
        references "Key" (osisID)
        on update cascade on delete cascade

```

go

```

alter table Text
    add constraint FK_TEXT_OFVERSION_VERSION foreign key (initial)

```

```
references Version (initial)
on update cascade on delete cascade
```

```
go
```

7. 表 UserGroup


| ANGELA-PC.angela...e - dbo.UserGroup BWE.sql - AN | | | |
|---|----------|--------------------------|--|
| 列名 | 数据类型 | 允许 Null 值 | |
|  groupId | int | <input type="checkbox"/> | |
| groupName | char(32) | <input type="checkbox"/> | |
| | | <input type="checkbox"/> | |

```
/*=====*/
/* Table: UserGroup */
/*=====*/
```

```
create table UserGroup (
    groupId          int          not null,
    groupName        char(32)     not null,
    constraint PK_USERGROUP primary key nonclustered (groupId)
)
```

```
go
```

8. 表 UserInfo

| ANGELA-PC.angelabile - dbo.UserInfo ANGELA-PC.a | | | |
|--|-----------|--------------------------|--|
| 列名 | 数据类型 | 允许 Null 值 | |
|  username | char(32) | <input type="checkbox"/> | |
| groupId | int | <input type="checkbox"/> | |
| password | char(256) | <input type="checkbox"/> | |
| email | char(256) | <input type="checkbox"/> | |

```
/*=====*/
/* Table: UserInfo */
/*=====*/
```

```
create table UserInfo (
    username        char(32)     not null,
    groupId          int          not null,
    password        char(256)    not null,
    email           char(256)    not null
    constraint CKC_EMAIL_USERINFO check (dbo.EmailCheck(LTRIM(RTRIM(email))))
```

```
=1),
```

```
constraint PK_USERINFO primary key nonclustered (username)
```

```
)
```

```
go
```

```
alter table UserInfo
```

```
add constraint FK_USERINFO_RELATIONS_USERGROU foreign key (groupId)
```

```
references UserGroup (groupId)
```

```
on update cascade on delete cascade
```

go

9. 表 Version

| ANGELA-PC.angelabile - dbo.Version | | | |
|------------------------------------|------------|-------------------------------------|--|
| 列名 | 数据类型 | 允许 Null 值 | |
| initial | char(32) | <input type="checkbox"/> | |
| language | char(32) | <input type="checkbox"/> | |
| osisRef | char(32) | <input type="checkbox"/> | |
| title | char(256) | <input checked="" type="checkbox"/> | |
| describe | char(1024) | <input checked="" type="checkbox"/> | |

```

/*=====*/
/* Table: Version                                */
/*=====*/

```

```

create table Version (
    initial          char(32)          not null,
    language         char(32)          not null,
    osisRef          char(32)          not null,
    title            char(256)         null,
    describe         char(1024)        null,
    constraint PK_VERSION primary key nonclustered (initial),
    constraint AK_UK_OSISREF_VERSION unique (osisRef)
)
Go
alter table Version
    add constraint FK_VERSION_RELATIONS_LANGUAGE foreign key (language)
        references language (language)
        on update cascade on delete cascade

```

go

10. 表 Carol

| ANGELA-PC.angelabile - dbo.Carol | | | |
|----------------------------------|------------|-------------------------------------|--|
| 列名 | 数据类型 | 允许 Null 值 | |
| title | char(32) | <input type="checkbox"/> | |
| describe | char(1024) | <input checked="" type="checkbox"/> | |
| lyric | char(1024) | <input checked="" type="checkbox"/> | |
| filepath | char(1024) | <input checked="" type="checkbox"/> | |

```

/*=====*/
/* Table: Carol                                */
/*=====*/

```

```

create table Carol (
    title          char(32)          not null,
    describe       char(1024)        null,
    lyric          char(1024)        null,

```

```
    filepath          char(1024)          null,  
    constraint PK_CAROL primary key nonclustered (title)  
)  
Go
```

3.4.2 存储过程

```
create procedure ChapterCountOfVersion
```

```
    @book char(32),  
    @initial char(32)
```

```
as
```

```
select Max(chapter) from (  
    [Text] join [Key] on [Text].osisID=[Key].osisID)  
    join [Version] on [Version].initial=[Text].initial  
    where book=@book and [Text].initial=@initial  
go
```

```
create procedure InsertText
```

```
    @chapter INTEGER,  
    @verse INTEGER,  
    @book CHAR(32),  
    @osisId CHAR(32),  
    @initial CHAR(32),  
    @text CHAR(1024)
```

```
as
```

```
begin
```

```
update [dbo].[key] set [book]=@book,[chapter]=@chapter,[verse]=@verse where  
[osisId]=@osisId;
```

```
if @@ROWCOUNT=0
```

```
    insert into [dbo].[key] (osisId,book,chapter,verse) values  
    (@osisId,@book,@chapter,@verse);
```

```
update [dbo].[Text] set text=@text where initial=@initial and osisId=@osisId;
```

```
if @@ROWCOUNT=0
```

```
    insert into [dbo].[Text] (initial,osisId,text)  
values(@initial,@osisId,@text);
```

```
end
```

```
go
```

```
create procedure VerseCountOfVersion
```

```
    @book char(32),
```

```

    @chapter integer,
    @initial char(32)
as
select Max(verse) from (
    [Text] join [Key] on [Text].osisID=[Key].osisID)
join [Version] on [Version].initial=[Text].initial
    where book=@book and chapter=@chapter and [Text].initial=@initial
go

```

3.4.3 触发器

```

create trigger InsertSuggestion on UserInfo
for insert as
begin
    declare
        @username char(32),
        @suggestion char(1024);
    select @username = i.username from inserted i;
    set @suggestion = '新用户'+RTRIM(LTRIM(@username))+ ' 于'+CONVERT(char(30),
CURRENT_TIMESTAMP)+'注册';
    insert Suggestion(username,suggestion,timestamp)
values (@username,@suggestion,CURRENT_TIMESTAMP);
end
go

```

3.4.4 视图

```

/*=====*/
/* View: BookGroup */
/*=====*/
create view BookGroup as
select [group],MIN([index])as [mindex] ,
    MIN([testament]) as [testament]
    from [book] group by [group] ;
go

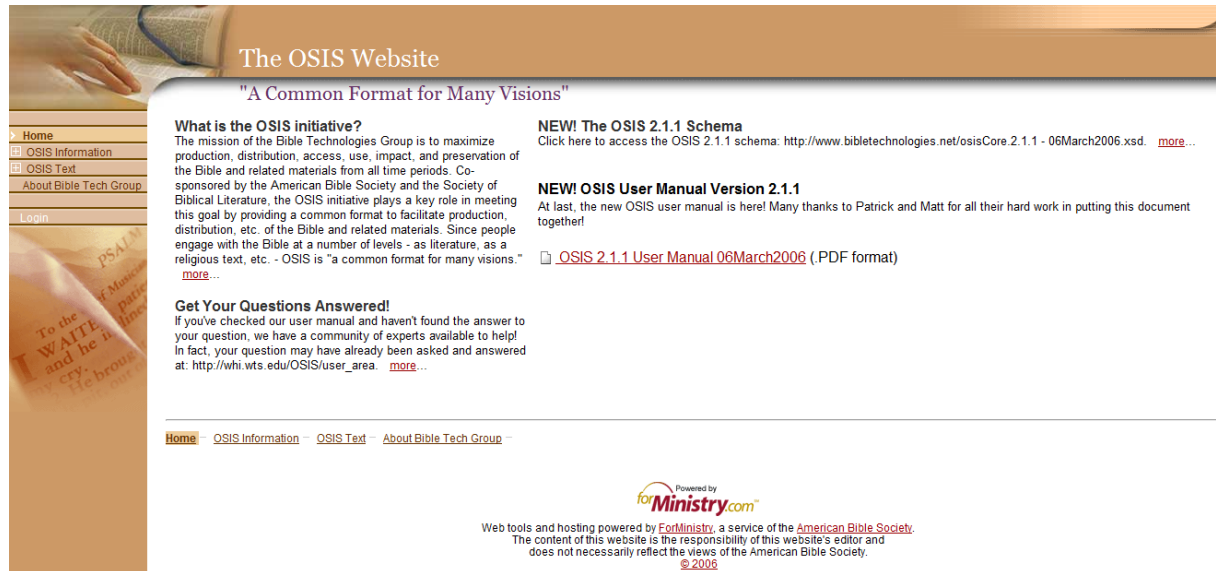
/*=====*/
/* View: BookVersion */
/*=====*/
create view BookVersion as
select [Key].[book]as book , [Text].[initial] as initial from (
    [Text] join [Version] on [Version].initial=[Text].initial)
join [Key] on [Key].osisID=[Text].osisId
group by [Key].[book],[Text].[initial]
go

```

3.5 数据参照来源

3.5.1 关于 osis:

<http://bibletechnologies.net/>



0

Open Scripture Information Standard (OSIS) 开放圣经信息标准

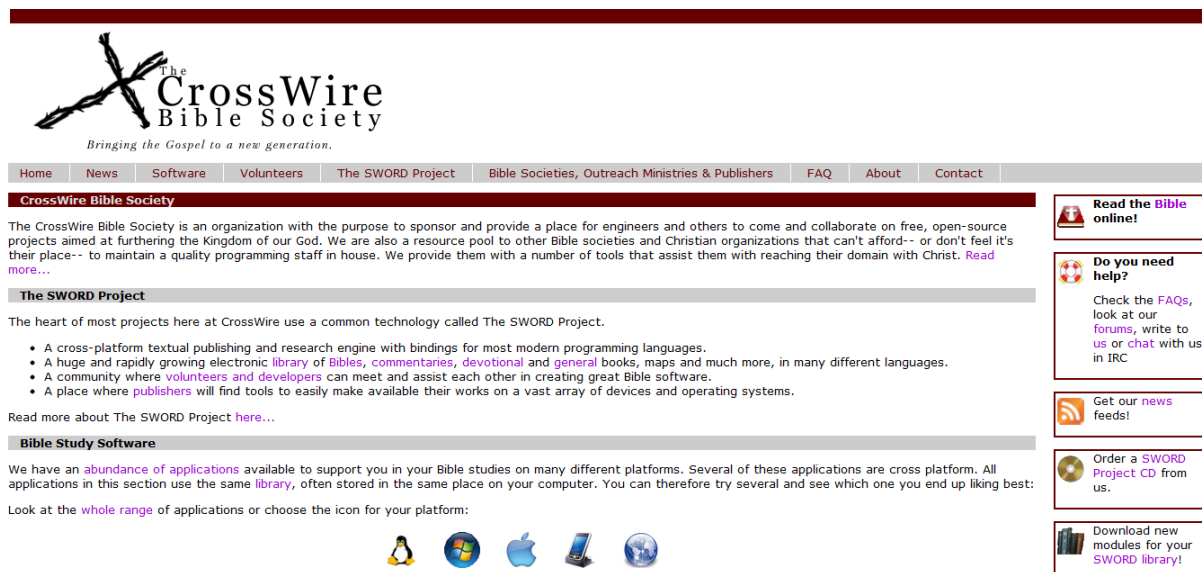
这是一个标准化组织，专门制定圣经和类似文本的格式的标准……然后 xiphos 的圣经的格式采用 osis 标准，也可以理解为将各种圣经和相关文本进行编码标记的一种 XML 模式 (XML schema)。使用 OSIS 可以做很多很酷的事情，诸如将信息发布为印刷书籍、PDF、HTML 或者用于手机阅读的 WML 文档等。

OSIS 模式定义了哪些元素会出现以及在哪里出现（例如经节、引用、段落、诗行等等）。他也定义了圣经索引的一个标准形式：一个圣经书卷名缩写的集合，和一个对引用进行标记分段的标准方法，例如 Matt.1.1。这些方法和我们使用纸媒的传统接近，但是这里的规则为了避免歧义和其他的冲突更加的严格。

OSIS 计划的目标是为了研究、标识和开发有组织的过程和为圣经以及相关文本生产标记标准的技术基础。这件事很必要，以便大家可以在跨自然语言编辑和计算机硬件和软件出版、链接、引用和获得等发面进行相互合作。其目标是为了提供一个使用标准，并且方便出版商、软件开发商、各个经协会、学者和任何对圣经及其相关文本感兴趣的人。成功应用以后，OSIS 将会提供简便的存储和获取手段，索引和交叉引用原始文本，圣经经文和相关文本以各种格式的表现，包括互联网、印刷媒体，个人数字助理 PDA，手机，等等。

3.5.2 crosswire 基金会

<http://www.crosswire.org/index.jsp>

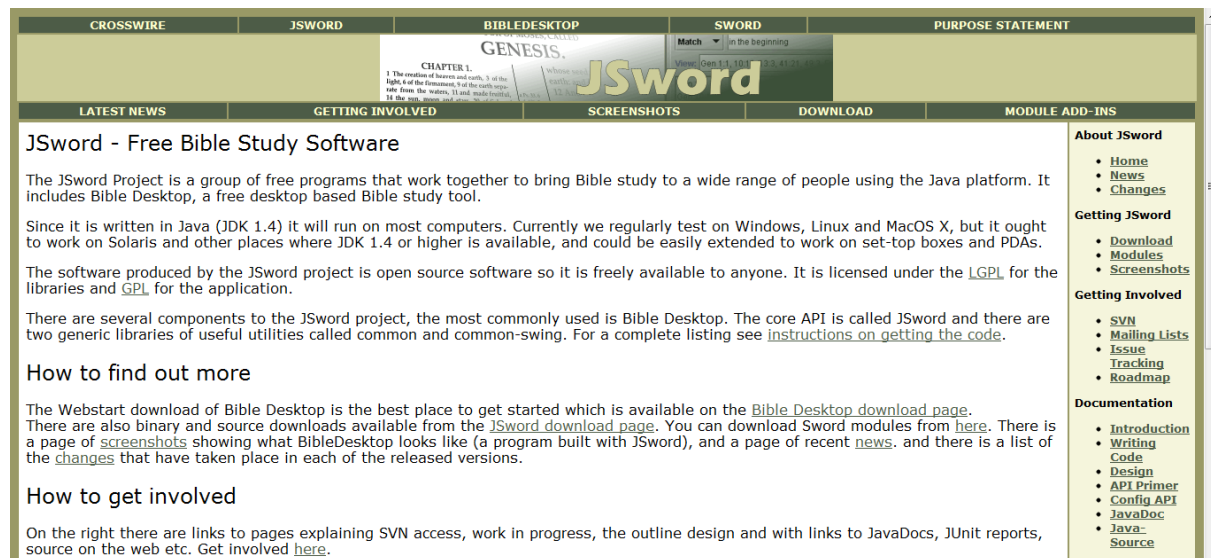


<http://www.crosswire.org/jsword/>

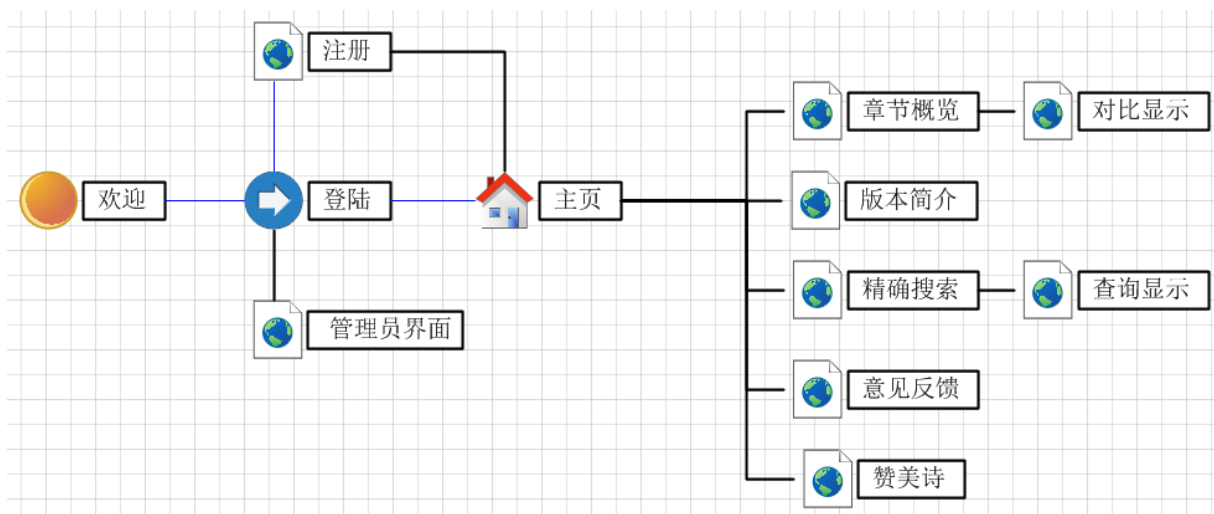
jsword 是 java 代码，跨平台性好很多，所以这里的圣经版本都是从这个软件的开源代码里导出的，此部分工作是请人做的，这里和任课老师已经说明。

Bible software in Java,

compatible with the Sword project for C/C++



4. 窗体设计与功能设计程序标注



4.1 公共模块

```
Public username As String
```

```
Public content As String
```

```
Public timestamp As Date
```

```
Public Shared Function GetNote(ByVal user As String, ByVal osid As String) As Note
```

```
Dim result As New Note
```

```
Using sqlConnection As SqlClient.SqlConnection = New SqlClient.SqlConnection(strConnect)
```

```
sqlConnection.Open()
```

```
sqlConnection.CreateCommand()
```

```
Dim sqlCommand As SqlClient.SqlCommand = sqlConnection.CreateCommand
```

```
sqlCommand.CommandText = "use angelabible; " + _
```

```
"select [osisId],[username],[content],[timestamp] " + _
```

```
" from [Note] where [username]='" + user + "' and osid='" + osid + "';"
```

```
Dim reader As SqlDataReader = sqlCommand.ExecuteReader()
```

```
While reader.Read()
```

```
With result
```

```
.osisId = reader.GetString(0).Trim
```

```
.username = reader.GetString(1).Trim
```

```
.content = reader.GetString(2).Trim
```

```
.timestamp = reader.GetDateTime(3)
```

```
End With
```

```
Return result
```

```
End While
```

```
Return Nothing
```

```
End Using
```

```
Return result
```

```
End Function
```

```

Public Sub Put()
    Using sqlConnection As SqlClient.SqlConnection = New SqlClient.SqlConnection(strConnect)
        sqlConnection.Open()
        sqlConnection.CreateCommand()
        Dim sqlCommand As SqlClient.SqlCommand = sqlConnection.CreateCommand
        sqlCommand.CommandText = "use angelabible; " + _
            "update [Note] set content=' " + content + "', [timestamp]=' " + timestamp.ToString()
+ _
            "' where [username]=' " + username + "' and osisId=' " + osisId + "';" + vbCrLf +
-
            "if @@ROWCOUNT=0 " + vbCrLf + _
            "insert into [Note] ([osisId], [username], [content], [timestamp]) values(' " + _
            osisId + "', ' " + username + "', ' " + SqlFilter(content) + "', ' " + timestamp + "');"

        Dim reader As Integer = sqlCommand.ExecuteNonQuery()

    End Using
End Sub
End Class

''' <summary>
''' 返回即将嵌入sql的字符串，转义掉“'”，简单地防止sql注入
''' </summary>
''' <param name="input"></param>
''' <returns></returns>
''' <remarks></remarks>
Public Function SqlFilter(ByVal input As String) As String
    Return input.Replace("'", "").Trim()
End Function

' 测试用

```

```

Public Function GetDataSet() As SqlClient.SqlDataReader
    Dim sqlCommand As SqlClient.SqlCommand

    Using sqlConnection As SqlClient.SqlConnection = New SqlClient.SqlConnection(strConnect)
        sqlConnection.Open()
        sqlConnection.CreateCommand()
        sqlCommand = sqlConnection.CreateCommand
        sqlCommand.CommandText = "use angelabible;select * from [dbo].[Version];"

        Dim sqlReader As SqlClient.SqlDataReader = sqlCommand.ExecuteReader()
    
```

```
While sqlReader.Read()  
  
    Dim initial As String = sqlReader.GetString(0)  
    Dim title As String = sqlReader.GetString(1)  
  
    MsgBox(title, MsgBoxStyle.OkOnly, initial)  
End While  
Return sqlReader  
End Using  
  
End Function  
End Module
```

4.2 欢迎界面



```
Imports System.Data.SqlClient  
Public Class 欢迎界面  
    Inherits System.Windows.Forms.Form
```

```
Private Sub 欢迎界面_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
MyBase.Load  
    Me.AxShockwaveFlash1.Movie = Application.StartupPath & "\开机动画.swf"  
End Sub
```

```
Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Timer1.Tick  
    If (Me.Visible) Then  
        fstart = New 登录界面  
        fstart.Show()  
        Me.Close()  
    End If  
    Timer1.Enabled = False  
End Sub
```

```
Private Sub 欢迎界面_Shown(ByVal sender As Object, ByVal e As System.EventArgs) Handles Me.Shown  
    Timer1.Enabled = True  
End Sub
```

```
End Class
```

4.3 登陆界面



```
Imports System  
Imports System.Data  
Imports System.Data.SqlClient
```

Public Class 登录界面

```
Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Timer1.Tick
    Label1.Left = Label1.Left + 1
    If Label1.Left > Me.Width Then Label1.Left = -Label1.Width
    Label2.Left = Label2.Left + 1
    If Label2.Left > Me.Width Then Label2.Left = -Label2.Width
End Sub
```

```
Private Sub 起始界面_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
    Timer1.Enabled = True
    Timer1.Interval = 1
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles bexit.Click
    Application.Exit()
End Sub
```

```
Private Sub log_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles log.Click
    Dim username As String = SqlFilter(TextBox1.Text)
    Dim password As String = SqlFilter(TextBox2.Text)
```

’ 打开数据库连接

```
Using sqlConnection As SqlClient.SqlConnection = New SqlClient.SqlConnection(strConnect)
    sqlConnection.Open()
    sqlConnection.CreateCommand()
    Dim sqlCommand As SqlClient.SqlCommand = sqlConnection.CreateCommand
    sqlCommand.CommandText = "use angelabible; " + _
        "select [username],[password],[email],[groupname] from " + _
        "[dbo].[UserInfo] join [UserGroup] on [UserInfo].[groupId]=[UserGroup].[groupId] " + _
        "where [username]=' " + username + "' and [password]=' " + password + "';"
```

```
Dim reader As SqlDataReader = sqlCommand.ExecuteReader()
```

```
If reader.HasRows Then
```

```
    While reader.Read()
```

```
        loggedInUser = New UserInfo
```

```
        loggedInUser.Username = reader.GetString(0).Trim
```

```
        loggedInUser.Password = reader.GetString(1).Trim
```

```
        loggedInUser.Email = reader.GetString(2).Trim
```

```
        loggedUser.GroupName = reader.GetString(3).Trim
    End While

    ' 登陆成功
    ' MsgBox("登陆成功!", MsgBoxStyle.OkOnly)
    fhome = New 主页
    fhome.Show()
    Me.Close()

Else
    MsgBox("登陆失败!", MsgBoxStyle.OkOnly)
End If
End Using
End Sub
```

```
Private Sub browse_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
browse.Click
    loggedUser = New UserInfo
    loggedUser.Username = "guest"
    loggedUser.Password = ""
    loggedUser.Email = ""
    loggedUser.GroupName = ""

    fhome = New 主页
    fhome.Show()
    Me.Close()
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button1.Click
    Dim psd As String
    psd = InputBox("请输入管理员查询口令", "管理员登录审核")
    If psd = "13482777307" Then
        MsgBox("果然是最聪明的主人哦!欢迎回来哇!")
        fadmin = New 管理员查询界面
        fadmin.Show()
        Me.Close()
    End
Else
    MsgBox("口令错误,切勿私自闯入!", MsgBoxStyle.OkOnly, "严重警告你啊!!")
End If
End Sub
```

```
Private Sub register_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
```

```
register.Click  
    fregister = New 用户注册界面  
    fregister.Show()  
    Me.Close()  
End Sub  
End Class
```

4.4 用户注册界面

```
Imports System.Text.RegularExpressions
```

```
Public Class 用户注册界面
```

```
    'Private Function Load_UserGroup() As List(Of String)  
    'End Function
```

```
    Private Sub 用户注册界面_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load  
    End Sub
```

```
    Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button3.Click  
        TextBox1.Focus()  
        TextBox1.Text = ""  
        TextBox2.Text = ""  
        TextBox3.Text = ""  
        TextBox4.Text = ""
```

End Sub

```
Private Sub TextBox3_LostFocus(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
TextBox3.LostFocus
```

```
    If TextBox3.Text.Trim.Length > 5 Then  
        Label8.Text = "您输入的密码合理有效！"
```

```
    Else
```

```
        TextBox3.Text = ""
```

```
        TextBox3.Focus()
```

```
    End If
```

```
End Sub
```

```
Private Sub TextBox1_TextChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
TextBox1.TextChanged
```

```
    Dim StrName As String
```

```
    StrName = TextBox1.Text.Trim.ToString
```

```
    If TextBox1.Text = "" Then
```

```
        Exit Sub
```

```
    End If
```

```
End Sub
```

```
Private Sub TextBox4_LostFocus(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
TextBox4.LostFocus
```

```
    If TextBox4.Text.Trim().Equals(TextBox3.Text.Trim()) And Not TextBox3.Text.Equals("") Then
```

```
        Label9.Text = "您的密码已经确认成功！"
```

```
        Label9.ForeColor = Color.Red
```

```
    Else
```

```
        Label9.Text = "两次输入的密码不一致，请重新输入！"
```

```
        Label9.ForeColor = Color.Red
```

```
    End If
```

```
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button2.Click
```

```
    fstart = New 登录界面
```

```
    fstart.Show()
```

```
    Me.Close()
```

```
End Sub
```

```
Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
bexit.Click
```

```
    Application.Exit()
```

```
End Sub
```

```

Private Function EmailCheck(ByVal email As String) As Boolean
    Dim pattern As String =
        "[a-zA-Z][\w\.-]*[a-zA-Z0-9]@[a-zA-Z0-9][\w\.-]*[a-zA-Z0-9]\.[a-zA-Z][a-zA-Z\.-]*[a-zA-Z]$"
    Dim emailAddressMatch As Match = Regex.Match(email, pattern)
    Return emailAddressMatch.Success
End Function

```

```

Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button1.Click
    Dim username As String = SqlFilter(TextBox1.Text)
    Dim password1 As String = SqlFilter(TextBox3.Text)
    Dim password2 As String = SqlFilter(TextBox4.Text)
    Dim email As String = SqlFilter(TextBox2.Text)
    Dim groupID As Integer = ComboBox1.SelectedIndex + 1 ' 管理员 groupId 为0, 普通用户从1开始算

    ' 检查用户输入是否合法
    If groupID = 0 Then
        MsgBox("请选择您的信仰状况!", MsgBoxStyle.OkOnly)
        Return
    End If

    If Not password1.Equals(password2) Then
        MsgBox("两次输入的密码不一致, 请重新输入!", MsgBoxStyle.OkOnly)
        Return
    End If

    If username.Trim().Length < 6 Then
        MsgBox("用户名太短, 请重新输入!", MsgBoxStyle.OkOnly)
        Return
    End If

    If Not EmailCheck(email.Trim()) Then
        MsgBox("邮箱格式不符合规范, 请重新输入!", MsgBoxStyle.OkOnly)
        Return
    End If

    ' 打开数据库连接
    Using sqlConnection As SqlClient.SqlConnection = New SqlClient.SqlConnection(strConnect)
        sqlConnection.Open()
        sqlConnection.CreateCommand()

        Dim sqlCommand As SqlClient.SqlCommand = sqlConnection.CreateCommand
        sqlCommand.CommandText = "use angelabile; " + _

```

```

"insert into [UserInfo]([groupId],[username],[password],[email]) " + _
"select " & groupId & "," & username & "," & password & "," & email & " " + _
"where not exists(" + _
"select * from [dbo].[UserInfo] where username = '" & username & "');"

```

```
Dim rowcount As Integer = sqlCommand.ExecuteNonQuery()
```

```
If rowcount = 0 Then
```

```
    ' 用户已存在
```

```
    MsgBox("用户已存在!", MsgBoxStyle.OkOnly)
```

```
    Return
```

```
Else
```

```
    ' 用户不存在, 插入成功
```

```
    MsgBox("用户成功注册", MsgBoxStyle.OkOnly)
```

```
    fstart = New 登录界面
```

```
    fstart.Show()
```

```
    Me.Close()
```

```
End If
```

```
End Using
```

```
End Sub
```

```
End Class
```

SQL 中关于邮件验证的代码

```

create function EmailCheck (@email varchar(256))
RETURNS bit
AS
BEGIN
DECLARE
    @invalidChars varchar(5),
    @valid int,
    @badChar varchar(1),
    @atPos int,
    @periodPos int
SET @valid = 1
SET @invalidChars = ' /:.,;'
--Check to see if it's blank
IF len(ltrim(rtrim(@email))) = 0
    SET @valid = 0
ELSE
    --Loop invalid characters to see if it exists in email
    WHILE len(@invalidChars) > 0
        BEGIN

```

```
SET @badChar = substring(@invalChars,1,1)
IF(charindex(@badChar,@email) > 0)
    --If invalid character was found, return 0 to invalidate
    SET @valid = 0
SET @invalChars = replace(@invalChars,@badChar,'')
END
--Check to see if "@" exists.
SET @atPos = charindex('@',@email,1)
IF @atPos = 0
    SET @valid = 0
    --Check to see if extra "@" exists after 1st "@".
    IF charindex('@',@email,@atPos+1) > 0
        SET @valid = 0
SET @periodPos = charindex('.',@email,@atPos)
IF @periodPos = 0
    SET @valid = 0
IF (@periodPos+3) > len(@email)
    SET @valid = 0
RETURN (@valid)
END
go
```

4.5 管理员查询界面



```
Imports System.Data.SqlClient
```

```
Public Class 管理员查询界面
```

```
    Inherits System.Windows.Forms.Form
```

```
    Dim username As String
```

```
    Dim groupID As Integer
```

```
    Dim password As String
```

```
    Dim email As String
```

```
Private Sub 管理学查询界面_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
```

```
    ' TODO: 这行代码将数据加载到表“AngelabibleDataSet.UserInfo”中。您可以根据需要移动或删除它。
```

```
    ' Me.UserInfoTableAdapter.Fill(Me.AngelabibleDataSet.UserInfo)
```

```
    FillUserDataView(UserInfo.GetAllUser())
```

```
    FillSuggestionView()
```

```
End Sub
```



```
Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles bexit.Click
```

```
    Application.Exit()
```

```
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
```

```
    fstart = New 登录界面
```

```
    fstart.Show()
```

```
    Me.Hide()
```

```
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button2.Click
```

```
    Dim sqlsel As String
```

```
    Dim strdel As String
```

```
    If MsgBox("删除不能恢复，确认删除吗？", MsgBoxStyle.Question + MsgBoxStyle.OkCancel) = MsgBoxResult.Ok Then
```

```
        Try
```

```
            ' Dim username As String = "delete from UserInfo where Username = '" & Trim(txtname.Text) & "'"
```

```
            ' If idel = 1 Then
```

```
            ' DataGridView1.DataSource = odb.createdatatable(sqlsel)
```

```
            ' MsgBox("删除成功！", MsgBoxStyle.Information)
```

```
            ' End If
```

```
            If UserInfo.DeleteUserByName(SqlFilter(txtname.Text)) Then
```

```
                MsgBox("删除成功")
```

```
            Else
```

```
                MsgBox("删除失败")
```

```
            End If
```

```
        Catch ex As Exception
```

```
            MsgBox(ex.Message)
```

```
        Exit Sub
```

```
    End Try
```

```
End If
```

```
FillUserDataView(UserInfo.GetAllUser())  
End Sub
```

```
Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button5.Click  
    If txtname.Text = "" Then  
        MsgBox("请先输入需要查询的用户名()", MsgBoxStyle.Information)  
        txtname.Focus()  
    Else  
        FillUserDataView(UserInfo.GetUserByName(SqlFilter(txtname.Text)))  
    End If  
End Sub
```

```
Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button3.Click  
    FillUserDataView(UserInfo.GetAllUser())  
End Sub
```

```
Private Sub FillUserDataView(ByVal users As List(Of UserInfo))  
    DataGridView1.DataBindings.Clear()  
    DataGridView1.DataSource = Nothing  
    DataGridView1.Columns.Clear()  
  
    DataGridView1.Columns.Add("Username", "用户名")  
    DataGridView1.Columns.Add("Password", "密码")  
    DataGridView1.Columns.Add("GroupName", "用户分组")  
    DataGridView1.Columns.Add("Email", "电子邮箱")  
  
    For Each user As UserInfo In users  
        DataGridView1.Rows.Add(user.Username, user.Password, user.GroupName, user.Email)  
    Next  
End Sub
```

```
Private Sub btnAllSuggestion_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
btnAllSuggestion.Click  
    FillSuggestionView()  
End Sub
```

```
Private Sub FillSuggestionView()  
    dgvSuggestion.DataBindings.Clear()  
    dgvSuggestion.DataSource = Nothing  
    dgvSuggestion.Columns.Clear()  
    dgvSuggestion.Columns.Add("Username", "用户名")
```

```
dgvSuggestion.Columns.Add("Timestamp", "留言时间")
```

```
dgvSuggestion.Columns.Add("Suggestion", "建议")
```

```
For Each sug As Suggestion In Suggestion.GetAll()
```

```
    dgvSuggestion.Rows.Add(sug.username, sug.timestamp, sug.suggestion)
```

```
Next
```

```
End Sub
```

```
Private Sub btnDeleteSuggestion_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles btnDeleteSuggestion.Click
```

```
    For Each row As DataGridViewRow In dgvSuggestion.SelectedRows
```

```
        Dim username As String = CStr(row.Cells(0).Value)
```

```
        Dim timestamp As Date = CDate(row.Cells(1).Value)
```

```
        Dim sug As New Suggestion
```

```
        sug.username = username
```

```
        sug.timestamp = timestamp
```

```
        If sug.Delete() Then
```

```
            MsgBox("用户" + username + "在" + timestamp + "时的留言已删除。")
```

```
        Else
```

```
            MsgBox("留言删除不成功！")
```

```
        End If
```

```
    Next
```

```
    FillSuggestionView()
```

```
End Sub
```

```
Private Sub DataGridView1_SelectionChanged(ByVal sender As Object, ByVal e As System.EventArgs) Handles DataGridView1.SelectionChanged
```

```
    For Each row As DataGridViewRow In DataGridView1.SelectedRows
```

```
        txtname.Text = CStr(row.Cells(0).Value)
```

```
    Next
```

```
End Sub
```

```
End Class
```

4.6 主页



Public Class 主页

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
b_browse.Click  
fbrowse = New 圣经章节概览  
fbrowse.Show()  
Me.Close()  
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
b_search.Click  
fsearch = New 经文精确搜索  
fsearch.Show()  
Me.Close()  
End Sub
```

```
Private Sub Button5_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
b_version.Click  
fversion = New 圣经版本简介  
fversion.Show()  
Me.Close()  
End Sub
```

```
Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Timer1.Tick  
Label1.Left = Label1.Left + 1  
If Label1.Left < Me.Width Then Label1.Left = -Label1.Width
```

End Sub

```
Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
b_carol.Click
    fcarols = New 赞美诗
    fcarols.Show()
    Me.Close()
End Sub
```

```
Private Sub Cancel_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
bexit.Click
    Application.Exit()
End Sub

Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
b_suggestion.Click
    fmessage = New 意见反馈
    fmessage.Show()
    Me.Close()
End Sub

End Class
```

4.7 圣经章节概览



```
Imports System.Data.SqlClient
Imports System.IO
```

Public Class 圣经章节概览


```

Inherits System.Windows.Forms.Form

Dim myconn As New SqlConnection("initial catalog=UBPA;data source=.;integrated
security=SSPI;")

Dim myadapter As SqlConnection.SqlDataAdapter = New SqlConnection.SqlDataAdapter("select * from casepavilion",
myconn)

Dim mydataset As New Data.DataSet
Dim listviews As New Dictionary(Of ListView, TabPage)
''' <summary>
''' 从BookGroup视图中按顺序选出book组
''' </summary>
''' <param name="testament">"OT" or "NT"</param>
''' <returns></returns>
''' <remarks></remarks>

Private Function getBookGroups(ByVal testament As String) As List(Of String)
    Dim result As New List(Of String)

    Using sqlConnection As SqlConnection = New SqlConnection(strConnect)
        sqlConnection.Open()
        sqlConnection.CreateCommand()
        Dim sqlCommand As SqlCommand = sqlConnection.CreateCommand
        sqlCommand.CommandText = "use angelabible; " + _
            " select [group] from [BookGroup] where [testament] = '" + testament + "' " + _
            " order by mindex ; "

        Dim reader As SqlDataReader = sqlCommand.ExecuteReader()
        While reader.Read()
            result.Add(reader.GetString(0).Trim())
        End While
    End Using
    Return result
End Function

```

```

Private Function getBooksOfGroup(ByVal group As String) As List(Of Book)
    Dim result As New List(Of Book)

    Using sqlConnection As SqlConnection = New SqlConnection(strConnect)
        sqlConnection.Open()
        sqlConnection.CreateCommand()
        Dim sqlCommand As SqlCommand = sqlConnection.CreateCommand
        sqlCommand.CommandText = "use angelabible; " + _
            "select [book],[name],[index],[testament],[group],[describe] from [book] " + _
            "where [group]='' + group + "' order by [index];"

```

```
Dim reader As SqlDataReader = sqlCommand.ExecuteReader()
While reader.Read()
    Dim b As New Book
    b.book = reader.GetString(0).Trim()
    b.name = reader.GetString(1).Trim()
    b.index = reader.GetInt32(2)
    b.testament = reader.GetString(3).Trim()
    b.group = reader.GetString(4).Trim()
    b.describe = reader.GetString(5).Trim()
    result.Add(b)
End While
End Using
Return result
End Function
```

```
Private Sub createBooksInTab(ByVal tab As TabControl, ByVal testament As String, ByVal imageIndexOffset
As Integer)
```

```
    tab.TabPages.Clear()
    Dim imageIndex As Integer
    imageIndex = 0

    For Each group As String In getBookGroups(testament)
        Dim page As New TabPage
        page.Text = group
        page.ToolTipText = group
        page.Tag = group

        Dim listview As New ListView

        'copy 自designer的代码, 设置格式字体等属性
        listview.Activation = System.Windows.Forms.ItemActivation.OneClick
        listview.Alignment = System.Windows.Forms.ListViewAlignment.Left
        listview.BackColor = System.Drawing.Color.Lavender
        listview.Font = New System.Drawing.Font("幼圆", 10.0!, System.Drawing.FontStyle.Regular,
System.Drawing.GraphicsUnit.Point, CType(134, Byte))
        listview.ForeColor = System.Drawing.Color.DarkBlue
        listview.ImeMode = System.Windows.Forms.ImeMode.NoControl
        listview.LargeImageList = Me.ImageList1
        listview.Location = New System.Drawing.Point(3, 3)
        listview.Name = "ListView1"
        listview.RightToLeft = System.Windows.Forms.RightToLeft.Yes
        listview.ShowItemToolTips = True
```

```
listview.StateImageList = ImageList1
listview.UseCompatibleStateImageBehavior = False
listview.View = System.Windows.Forms.View.SmallIcon

listview.Dock = DockStyle.Fill

AddHandler listview.ItemSelectionChanged, AddressOf Book_Selected

For Each b As Book In getBooksOfGroup(group)
    Dim item As New ListViewItem
    item.Text = b.name
    item.Tag = b
    item.ToolTipText = b.name
    item.StateImageIndex = (imageIndex Mod 8) + imageIndexOffset

    listview.Items.Add(item)
    imageIndex += 1
Next
page.Controls.Add(listview)

tab.TabPages.Add(page)
listviews(listview) = page
', listview.Size = page.Size
Next
End Sub

Private Sub Book_Selected(ByVal sender As Object, ByVal e As ListViewItemSelectionChangedEventArgs)
    Dim obj As Object = e.Item.Tag
    If (obj Is Nothing) Then
        Return
    End If
    choosedBook = DirectCast(obj, Book)
End Sub

Private Sub getVersions(ByVal combo As ComboBox)
    combo.Items.Clear()
    combo.Items.AddRange(Version.GetAllVersions().ToArray())
End Sub

Private Sub 圣经概览_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
    createBooksInTab(Tab_NT, "OT", 0)
    createBooksInTab(Tab_OT, "NT", 7)
```

```
getVersions(Combo_Ver2)
getVersions(Combo_Ver1)

If Not (choosedVersion2 Is Nothing) Then
    For i As Integer = 0 To Combo_Ver2.Items.Count - 1
        If choosedVersion2.initial.Equals(DirectCast(Combo_Ver2.Items.Item(i), Version).initial)
Then
            Combo_Ver2.SelectedIndex = i
        End If
    Next
End If

If Not (choosedVersion1 Is Nothing) Then
    For i As Integer = 0 To Combo_Ver1.Items.Count - 1
        If choosedVersion1.initial.Equals(DirectCast(Combo_Ver1.Items.Item(i), Version).initial)
Then
            Combo_Ver1.SelectedIndex = i
        End If
    Next
End If

If Not (choosedBook Is Nothing) Then
    For Each pair As KeyValuePair(Of ListView, TabPage) In listviews
        For i As Integer = 0 To pair.Key.Items.Count - 1
            If (DirectCast(pair.Key.Items(i).Tag, Book).book.Equals(choosedBook.book)) Then
                pair.Key.SelectedIndices.Clear()
                pair.Key.SelectedIndices.Add(i)

                If Tab_NT.TabPages.Contains(pair.Value) Then
                    Tab_NT.SelectedTab = pair.Value
                End If

                If Tab_OT.TabPages.Contains(pair.Value) Then
                    Tab_OT.SelectedTab = pair.Value
                End If
            End If
        Next
    Next
End If
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
```

bhome.Click

fhome = New 主页

fhome.Show()

Me.Close()

End Sub

Private Sub Cancel_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles

bexit.Click

Application.Exit()

End Sub

Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles

b_search.Click

fcompare = New 经文对比显示

fcompare.Show()

Me.Close()

End Sub

Private Sub ComboBox2_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles Combo_Ver1.SelectedIndexChanged

Dim obj As Version = DirectCast(Combo_Ver1.SelectedItem, Version)

If obj Is Nothing Then

Return

End If

choosedVersion1 = obj

End Sub

Private Sub ComboBox1_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)

Handles Combo_Ver2.SelectedIndexChanged

Dim obj As Version = DirectCast(Combo_Ver2.SelectedItem, Version)

If obj Is Nothing Then

Return

End If

choosedVersion2 = obj

End Sub

End Class

4.8 经文精确搜索



```
Imports System.Data.SqlClient
```

```
Public Class 经文精确搜索
```

```
    Inherits System.Windows.Forms.Form
```

```
    Private Sub 经文搜索_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
```

```
        For i As Integer = 0 To bible.GetLength(0) - 1
```

```
            Combo1.Items.Add(bible(i))
```

```
        Next
```

```
        Combo1.Items.Clear()
```

```
        Combo1.Items.AddRange(Book.GetAllBooks().ToArray())
```

```
        Combo3.Items.Clear()
```

```
        Combo3.Items.AddRange(Version.GetAllVersions().ToArray())
```

```
        If Not choosedVersion1 Is Nothing Then
```

```
            For i As Integer = 0 To Combo3.Items.Count - 1
```

```
                If DirectCast(Combo3.Items(i), Version).initial.Equals(choosedVersion1.initial) Then
```

```
                    Combo3.SelectedIndex = i
```

```
                End If
```

```
            Next
```

```
        End If
```

```
        If Not choosedBook Is Nothing Then
```

```
For i As Integer = 0 To Combo1.Items.Count - 1
    If DirectCast(Combo1.Items(i), Book).book.Equals(choosedBook.book) Then
        Combo1.SelectedIndex = i
    End If
Next
End If
```

```
If choosedChapter <> 0 Then
    For i As Integer = 0 To Combo2.Items.Count - 1
        If CInt(Combo2.Items(i)) = choosedChapter Then
            Combo2.SelectedIndex = i
        End If
    Next
End If
```

```
If choosedVerse <> 0 Then
    For i As Integer = 0 To ComboBox1.Items.Count - 1
        If CInt(ComboBox1.Items(i)) = choosedVerse Then
            ComboBox1.SelectedIndex = i
        End If
    Next
End If
```

End Sub

’ 以下根据选择的福音书，从数据库加载对应的章节数量

```
Dim selectedBook As Book = DirectCast(Combo1.SelectedItem, Book)
Dim selectedVersion As Version = DirectCast(Combo3.SelectedItem, Version)
If selectedBook Is Nothing Then
    MsgBox("请选择一本书！")
    Return
End If

If selectedVersion Is Nothing Then
    MsgBox("请选择一个语言版本！")
    Return
End If
```

```
choosedVersion1 = selectedVersion
choosedBook = selectedBook
```

```
Dim lastSelect As Integer
```

```
If Combo2.SelectedItem Is Nothing Then
    lastSelect = 0
Else
    lastSelect = CInt(Combo2.SelectedItem)
End If
```

```
Combo2.Items.Clear()
```

```
Dim count As Integer = Key.GetChapterCount(selectedBook.book, selectedVersion.initial)
```

```
Dim index As Integer
```

```
For index = 1 To count
```

```
    Combo2.Items.Add(index.ToString())
```

```
Next
```

```
If lastSelect <= count Then
```

```
    Combo2.SelectedIndex = lastSelect - 1
```

```
End If
```

```
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
bhome.Click
    fhome = New 主页
    fhome.Show()
    Me.Close()
End Sub
```

```
Private Sub Combo2_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Combo2.SelectedIndexChanged
    Dim selectedBook As Book = DirectCast(Combo1.SelectedItem, Book)
    Dim selectedChapter As String = Combo2.SelectedItem
    Dim selectedVersion As Version = DirectCast(Combo3.SelectedItem, Version)

    If selectedBook Is Nothing Then
        MsgBox("请选择一本书！")
        Return
    End If

    If selectedVersion Is Nothing Then
        MsgBox("请选择一个语言版本！")
        Return
    End If
```



```
choosedVersion1 = selectedVersion
choosedBook = selectedBook
choosedChapter = CInt(selectedChapter)

Dim lastSelect As Integer
If ComboBox1.SelectedItem Is Nothing Then
    lastSelect = 0
Else
    lastSelect = CInt(ComboBox1.SelectedItem)
End If

ComboBox1.Items.Clear()

Dim count As Integer = Key.GetVerseCount(selectedBook.book, selectedChapter,
selectedVersion.initial)

Dim i As Integer
For i = 1 To count
    ComboBox1.Items.Add(i.ToString())
Next

If lastSelect <= count Then
    ComboBox1.SelectedIndex = lastSelect - 1
End If
End Sub
```

```
Private Sub Combo3_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Combo3.SelectedIndexChanged
    Dim ver As Version = DirectCast(Combo3.SelectedItem, Version)

    Dim lastSelect As String
    If Combo1.SelectedItem Is Nothing Then
        lastSelect = ""
    Else
        lastSelect = DirectCast(Combo1.SelectedItem, Book).book
    End If

    Combo1.Items.Clear()
    Combo1.Items.AddRange(BookVersion.GetBooksByVersion(ver.initial).ToArray)

    For i As Integer = 0 To Combo1.Items.Count - 1
        If DirectCast(Combo1.Items.Item(i), Book).book.Equals(lastSelect) Then
            Combo1.SelectedIndex = i
        End If
    Next
End Sub
```

```
End If
Next
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button1.Click
    freader = New 经文查询显示
    freader.Show()
    Me.Close()
End Sub
```

```
Private Sub ComboBox1_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles ComboBox1.SelectedIndexChanged
    Dim selectedBook As Book = DirectCast(Combo1.SelectedItem, Book)
    Dim selectedChapter As String = Combo2.SelectedItem
    Dim selectedVerse As String = ComboBox1.SelectedItem
    Dim selectedVersion As Version = DirectCast(Combo3.SelectedItem, Version)

    If selectedBook Is Nothing Then
        MsgBox("请选择一本书！")
        Return
    End If

    If selectedVersion Is Nothing Then
        MsgBox("请选择一个语言版本！")
        Return
    End If

    choosedVersion1 = selectedVersion
    choosedBook = selectedBook
    choosedChapter = CInt(selectedChapter)
    choosedVerse = CInt(selectedVerse)
End Sub
End Class
```

4.9 经文对比显示



```
Public Class 经文对比显示
```

```
    Private Sub Button6_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
bhome.Click  
        fhome = New 主页  
        fhome.Show()  
        Me.Close()  
    End Sub
```

```
    Private Sub Cancel_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
bexit.Click  
        Application.Exit()  
    End Sub
```

```
    Private Sub Timer1_Tick(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Timer1.Tick  
        Label1.Left = Label1.Left + 1  
        If Label1.Left > Me.Width Then Label1.Left = -Label1.Width  
    End Sub
```

```
    Private Sub Combo1_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles Combo1.SelectedIndexChanged  
        Dim book As Book = DirectCast(Combo1.SelectedItem, Book)  
  
        If book Is Nothing Then
```

```
Return
End If

choosedBook = book

Dim nrChapter As Integer = Key.GetChapterCount(book.book)
Dim bckChoosedChapter As Integer = choosedChapter
nudChapter.Maximum = nrChapter
nudChapter.Minimum = 1
choosedChapter = bckChoosedChapter

reload(ComboBox1, RichTextBox1, choosedVersion1)
reload(ComboBox2, RichTextBox2, choosedVersion2)
End Sub
```

```
Private Sub 经文对比显示_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
```

```
    ComboBox1.Items.Clear()
    ComboBox1.Items.AddRange(Version.GetAllVersions().ToArray())
    ComboBox2.Items.Clear()
    ComboBox2.Items.AddRange(Version.GetAllVersions().ToArray())

    Combol.Items.Clear()
    Combol.Items.AddRange(Book.GetAllBooks().ToArray())
```

```
    If Not choosedVersion1 Is Nothing Then
        For i As Integer = 0 To ComboBox1.Items.Count - 1
            If choosedVersion1.initial.Equals(DirectCast(ComboBox1.Items.Item(i), Version).initial)
Then
                ComboBox1.SelectedIndex = i
            End If
        Next
    End If

    If Not choosedVersion2 Is Nothing Then
        For i As Integer = 0 To ComboBox2.Items.Count - 1
            If choosedVersion2.initial.Equals(DirectCast(ComboBox2.Items.Item(i), Version).initial)
Then
                ComboBox2.SelectedIndex = i
            End If
        Next
    End If
```

```
If Not choosedBook Is Nothing Then
    For i As Integer = 0 To Combo1.Items.Count - 1
        If choosedBook.book.Equals(DirectCast(Combo1.Items.Item(i), Book).book) Then
            Combo1.SelectedIndex = i
        End If
    Next
End If
```

```
If choosedChapter <= nudChapter.Maximum And choosedChapter >= nudChapter.Minimum Then
    nudChapter.Value = choosedChapter
End If
```

```
If choosedVerse <= nudVerse.Maximum And choosedVerse >= nudVerse.Minimum Then
    nudVerse.Value = choosedVerse
End If
```

```
reload(ComboBox1, RichTextBox1, choosedVersion1)
reload(ComboBox2, RichTextBox2, choosedVersion2)
```

```
Timer1.Enabled = True
Timer1.Interval = 1
```

```
End Sub
```

```
Private Sub nudChapter_ValueChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
nudChapter.ValueChanged
```

```
    Dim book As Book = DirectCast(Combo1.SelectedItem, Book)
    Dim chapter As Integer = nudChapter.Value
```

```
If book Is Nothing Or chapter = 0 Then
    Return
End If
```

```
choosedChapter = chapter
```

```
Dim nrVerse As Integer = Key.GetVerseCount(book.book, chapter)
Dim bckChoosedVerse As Integer = choosedVerse
nudVerse.Maximum = nrVerse
nudVerse.Minimum = 1
choosedVerse = bckChoosedVerse
```

```

        reload(ComboBox1, RichTextBox1, choosedVersion1)
        reload(ComboBox2, RichTextBox2, choosedVersion2)

```

```

End Sub

```

```

Private Sub reload(ByVal comboVersion As ComboBox, ByVal rtf As RichTextBox, ByRef choosedVersion As
Version)

```

```

    Dim ver As Version = DirectCast(comboVersion.SelectedItem, Version)

```

```

    Dim book As Book = DirectCast(Combo1.SelectedItem, Book)

```

```

    Dim chapter As Integer = nudChapter.Value

```

```

    Dim verse As Integer = nudVerse.Value

```

```

    If ver Is Nothing Or book Is Nothing Or chapter = 0 Or verse = 0 Then

```

```

        Return

```

```

    End If

```

```

    choosedVersion = ver

```

```

    Dim osisId As String = Key.GetOsisId(book.book, chapter, verse)

```

```

    Dim textContent As String = Module1.Text.GetText(ver.initial, osisId)

```

```

    If textContent Is Nothing Then

```

```

        With rtf

```

```

            .Text = "所选择的版本中没有这个章节！"

```

```

            .SelectAll()

```

```

            .SelectionFont = New System.Drawing.Font("幼圆", 30.0!, System.Drawing.FontStyle.Regular,
System.Drawing.GraphicsUnit.Point, CType(134, Byte))

```

```

            .SelectionColor = Color.Red

```

```

        End With

```

```

    Else

```

```

        With rtf

```

```

            .Text = textContent

```

```

            .SelectAll()

```

```

            .SelectionFont = New System.Drawing.Font("幼圆", 15.0!, System.Drawing.FontStyle.Regular,
System.Drawing.GraphicsUnit.Point, CType(134, Byte))

```

```

            .SelectionColor = Color.Black

```

```

        End With

```

```

    If ver.language.Equals("Hebrew") Then

```

```

        rtf.SelectionFont = New System.Drawing.Font("Hebrew", 15.0!,
System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point, CType(134, Byte))

```

```

    End If

```

```

End If

```

```

' 限制未登录用户

```

```
If loggedUser Is Nothing Or loggedUser.Username.Equals("guest") Then Return
Dim note As Note = note.GetNote(loggedUser.Username, osisId)
If note Is Nothing Then Return

rtf.Text += vbCrLf + "您在" + note.timestamp + "留的笔记:" + vbCrLf + note.content
rtf.Select(Len(textContent), Len(RichTextBox1.Text) - Len(textContent))
rtf.SelectionColor = Color.Blue
End Sub
```

```
Private Sub ComboBox1_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles ComboBox1.SelectedIndexChanged
    reload(ComboBox1, RichTextBox1, choosedVersion1)
End Sub
```

```
Private Sub ComboBox2_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles ComboBox2.SelectedIndexChanged
    reload(ComboBox2, RichTextBox2, choosedVersion2)
End Sub
```

```
Private Sub nudVerse_ValueChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
nudVerse.ValueChanged
    reload(ComboBox1, RichTextBox1, choosedVersion1)
    reload(ComboBox2, RichTextBox2, choosedVersion2)

    choosedVerse = CInt(nudVerse.Value)
End Sub
```

```
Private Sub B_Backbrowse_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
B_Backbrowse.Click
    fbrowse = New 圣经章节概览
    fbrowse.Show()
    Me.Close()
End Sub
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button1.Click
    freader = New 经文查询显示
    freader.Show()
    Me.Close()
End Sub
```

```
Private Sub B_Mark_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
B_Mark.Click
```

```
Dim book As Book = DirectCast(Combo1.SelectedItem, Book)
Dim chapter As Integer = CInt(nudChapter.Value)
Dim verse As Integer = CInt(nudVerse.Value)

If book Is Nothing Or chapter = 0 Or verse = 0 Then
    Return
End If

Dim osisId As String = Key.GetOsisId(book.book, chapter, verse)
Dim note As Note = note.GetNote(loginedUser.Username, osisId)
Dim content As String
If note Is Nothing Then
    content = ""
Else
    content = note.content
End If

content = InputBox("输入您对本章节的笔记：", "圣经笔记", content)

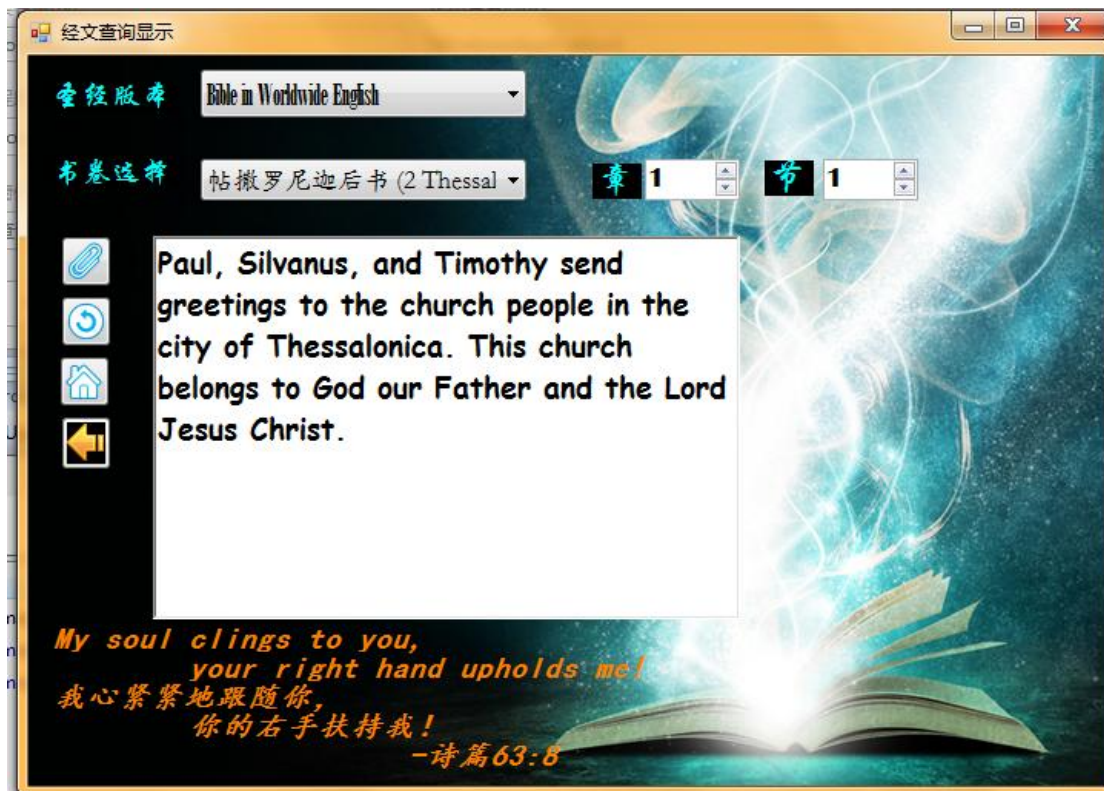
If content Is Nothing Then Return

note = New Note
note.username = loginedUser.Username
note.osisId = osisId
note.content = content
note.timestamp = Date.Now

note.Put()

reload(ComboBox1, RichTextBox1, choosedVersion1)
reload(ComboBox2, RichTextBox2, choosedVersion2)
End Sub
End Class
```

4.10 经文查询显示



Public Class 经文查询显示

```
Private Sub 经文查询显示_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load
```

```
    ComboBox1.Items.Clear()
```

```
    ComboBox1.Items.AddRange(Version.GetAllVersions().ToArray())
```

```
    Combo1.Items.Clear()
```

```
    Combo1.Items.AddRange(Book.GetAllBooks().ToArray())
```

```
    If Not choosedVersion1 Is Nothing Then
```

```
        For i As Integer = 0 To ComboBox1.Items.Count - 1
```

```
            If choosedVersion1.initial.Equals(DirectCast(ComboBox1.Items.Item(i), Version).initial)
```

```
Then
```

```
                ComboBox1.SelectedIndex = i
```

```
            End If
```

```
        Next
```

```
    End If
```

```
    If Not choosedBook Is Nothing Then
```

```
        For i As Integer = 0 To Combo1.Items.Count - 1
```

```
            If choosedBook.book.Equals(DirectCast(Combo1.Items.Item(i), Book).book) Then
```

```
                Combo1.SelectedIndex = i
```

```
            End If
```

```
        Next
```

```
End If

If choosedChapter <= nudChapter.Maximum And choosedChapter >= nudChapter.Minimum Then
    nudChapter.Value = choosedChapter
End If

If choosedVerse <= nudVerse.Maximum And choosedVerse >= nudVerse.Minimum Then
    nudVerse.Value = choosedVerse
End If

reloadText()
End Sub
```

```
Private Sub ComboBox1_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles ComboBox1.SelectedIndexChanged
    Dim ver As Version = DirectCast(ComboBox1.SelectedItem, Version)
    choosedVersion1 = ver

    Dim lastSelect As String
    If Combo1.SelectedItem Is Nothing Then
        lastSelect = ""
    Else
        lastSelect = DirectCast(Combo1.SelectedItem, Book).book
    End If

    Combo1.Items.Clear()
    Combo1.Items.AddRange(BookVersion.GetBooksByVersion(ver.initial).ToArray())

    For i As Integer = 0 To Combo1.Items.Count - 1
        If DirectCast(Combo1.Items.Item(i), Book).book.Equals(lastSelect) Then
            Combo1.SelectedIndex = i
        End If
    Next
    reloadText()
End Sub
```

```
Private Sub Combo1_SelectedIndexChanged(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Combo1.SelectedIndexChanged
    Dim ver As Version = DirectCast(ComboBox1.SelectedItem, Version)
    Dim book As Book = DirectCast(Combo1.SelectedItem, Book)

    If ver Is Nothing Or book Is Nothing Then
```

```
Return
End If
choosedBook = book

Dim bckChoosedChapter As Integer = choosedChapter
Dim nrChapter As Integer = CInt(Key.GetChapterCount(book.book, ver.initial))
nudChapter.Maximum = nrChapter
nudChapter.Minimum = 1

choosedChapter = bckChoosedChapter
If choosedChapter <= nrChapter And choosedChapter >= 1 Then
    nudChapter.Value = choosedChapter
End If

reloadText()
End Sub
```

```
Private Sub nudChapter_ValueChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
nudChapter.ValueChanged
    Dim ver As Version = DirectCast(ComboBox1.SelectedItem, Version)
    Dim book As Book = DirectCast(Combo1.SelectedItem, Book)
    Dim chapter As Integer = CInt(nudChapter.Value)

    If ver Is Nothing Or book Is Nothing Or chapter = 0 Then
        Return
    End If

    choosedChapter = chapter

    Dim bckChoosedVerse As Integer = choosedVerse
    Dim nrVerse As Integer = Key.GetVerseCount(book.book, chapter, ver.initial)
    nudVerse.Maximum = nrVerse
    nudVerse.Minimum = 1
    choosedVerse = bckChoosedVerse

    If choosedVerse <= nrVerse And choosedVerse >= 1 Then
        nudVerse.Value = choosedVerse
    End If
    reloadText()
End Sub
```

```
Private Sub nudVerse_ValueChanged(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
nudVerse.ValueChanged
```

```
reloadText()  
choosedVerse = CInt(nudVerse.Value)  
End Sub
```

```
Private Sub reloadText()  
    Dim ver As Version = DirectCast(ComboBox1.SelectedItem, Version)  
    Dim book As Book = DirectCast(Combo1.SelectedItem, Book)  
    Dim chapter As Integer = CInt(nudChapter.Value)  
    Dim verse As Integer = CInt(nudVerse.Value)  
  
    If ver Is Nothing Or book Is Nothing Or chapter = 0 Or verse = 0 Then  
        Return  
    End If  
  
    Dim osisId As String = Key.GetOsisId(book.book, chapter, verse)  
    Dim textContent As String = Module1.Text.GetText(ver.initial, osisId)  
    RichTextBox1.Text = textContent  
  
    Dim note As Note = note.GetNote(loginedUser.Username, osisId)  
    If note Is Nothing Then Return  
  
    RichTextBox1.Text += vbCrLf + "您在" + note.timestamp + "留的笔记:" + vbCrLf + note.content  
    RichTextBox1.Select(Len(textContent), Len(RichTextBox1.Text) - Len(textContent))  
    RichTextBox1.SelectionColor = Color.Blue  
End Sub
```

```
Private Sub bhome_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles bhome.Click  
    fhome = New 主页  
    fhome.Show()  
    Me.Close()  
End Sub
```

```
Private Sub B_Backbrowse_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles B_Backbrowse.Click  
    fcompare = New 经文对比显示  
    fcompare.Show()  
    Me.Close()  
End Sub
```

```
Private Sub B_Mark_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles B_Mark.Click  
  
    Dim book As Book = DirectCast(Combo1.SelectedItem, Book)
```

```
Dim chapter As Integer = CInt(nudChapter.Value)
Dim verse As Integer = CInt(nudVerse.Value)

If book Is Nothing Or chapter = 0 Or verse = 0 Then
    Return
End If

Dim osisId As String = Key.GetOsisId(book.book, chapter, verse)
Dim note As Note = note.GetNote(loginedUser.Username, osisId)
Dim content As String
If note Is Nothing Then
    content = ""
Else
    content = note.content
End If

content = InputBox("输入您对本章节的笔记：", "圣经笔记", content)

If content Is Nothing Then Return

note = New Note
note.username = loginedUser.Username
note.osisId = osisId
note.content = content
note.timestamp = Date.Now

note.put()

reloadText()
End Sub
```

```
Private Sub bexit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles bexit.Click
    fsearch = New 经文精确搜索
    fsearch.Show()
    Me.Close()
End Sub
End Class
```



Public Class 圣经版本简介

```
Private Sub TreeView1_AfterSelect(ByVal sender As System.Object, ByVal e As  
System.Windows.Forms.TreeViewEventArgs) Handles Tree_version.AfterSelect
```

```
Me.RichTextBox1.Text = "请在左侧选择您需要查询的圣经信息或者圣经版本! 欢迎! 祝愿您能再这  
里与主相遇!! "
```

```
RichTextBox1.ForeColor = Color.Orange
```

```
RichTextBox1.Font = New Font("隶书", 25)
```

```
If Me.Tree_version.SelectedNode.Tag = "b_concp" Then
```

```
Me.RichTextBox1.Text = "圣经都是神所默示的(提后三: 16); 圣经都是神的默示, 不同于人的好教训;  
是因为其来源的分别。圣经不仅一部分是神的话, 而都是, 全部是神的话。出于人的话, 不能永久存在, 因为人不能  
永久存在; 惟有神的话必永久存在, 因为神是永恒的神。神能够保守他的话, 使它成就。"
```

```
RichTextBox1.ForeColor = Color.Magenta
```

```
RichTextBox1.Font = New Font("华文楷体", 14)
```

```
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "b_orig" Then
```

```
Me.RichTextBox1.Text = "圣经的价值, 在于其从哪里来的。圣经是从神的默示来的。[默示]在原文是[神  
吹气]的意思。气和灵是相同的。圣经是由神的圣灵感动而来, 藉著人的手写出他的话。所以能称为神的话。以赛亚书  
说: 凡有血气的尽都如草; 他的美容, 都像野地的花。草必枯乾, 花必凋残, 因为耶和華的气吹在其上。百姓诚然是  
草。草必枯乾, 花必凋残; 惟有我们神的话, 必永远立定(赛四0: 7, 8)。可见人的存在, 是何等的脆弱。神的气吹在  
其上, 就没有了。但神的气吹在属他的人, 圣灵感动人写出神的话, 却是永存的。这是说, 永生的神, 藉著不能永存  
的人, 写出了他永存的话, 使信的人, 得著永远的生命。这是何等的奇妙! "
```

```
RichTextBox1.ForeColor = Color.Magenta
```

```
RichTextBox1.Font = New Font("华文楷体", 14)
```

```
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "b_use" Then
```

```
Me.RichTextBox1.Text = "圣经有其超自然的来源，才会有超自然的功能。有人对基督教这名词避知若  
浼，其实圣经正是一本属灵的教材，其功能首先是教训，使圣徒知道所当遵行的。因此[从前所写的圣经，都是为教训  
我们写的](罗一五:4)。有的人力求避免基督教的[教]字，既无必要，也不可能。但
```

```
人往往有错失，不能达到所要求的标准。因此，不能怕提到罪，也不能拒绝责备罪。我们既不能绝对免除错误，也就  
需要责备。虽然责备不是人所欢喜的，但是必要的。所以应当求主指教我们，得著智慧的心，因主藉圣经的责备而回  
转，行他的道路。
```

```
圣经也是我们行天路的指针，使我们不至于如羊走迷，偏行己路。从圣经  
的标准，我们可以检查到自己的偏差，及时归返正路。所以圣经也是给我们操练行义的典范，使我们好学习行主的道。  
"
```

```
RichTextBox1.ForeColor = Color.Magenta
```

```
RichTextBox1.Font = New Font("华文楷体", 14)
```

```
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "b_aim" Then
```

```
Me.RichTextBox1.Text = "属神的人为主而活，是主选召我们的目的。为了达成这目的：[要叫我们行善，  
就是神预备叫我们行的](弗二：10)，必须先得装备完全。神的话不是叫人来欣赏，也不是叫人建立一个敬虔的行  
业而已；而是有其更高的旨意，叫我们知所遵行，完成他所命定我们去作的。这就是神赐圣经给我们的目标：充分装  
备属神的人，以能适合达成这使命。"
```

```
RichTextBox1.ForeColor = Color.Magenta
```

```
RichTextBox1.Font = New Font("华文楷体", 14)
```

```
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "b_app" Then
```

```
Me.RichTextBox1.Text = "今天，我们所以能明白神的事，明白他的心意和计划，都是因为神自己主动  
地，透过人类所能明白的文字，在圣经里清楚地记载出来。圣经是基督教的经典，是基督徒生活与信仰的最高权威，  
整本圣经都是神的话，那么我们应该如何来应用呢？
```

```
我们已清楚，圣经是神用来向人类传达他  
的作为、言语与计划的一本书。但是神为什么要将圣经赐给我们？圣经与耶稣又有什么关系呢？提后三15：「你是从  
小明白圣经，这圣经能使你因信基督耶稣，有得救的智慧。」由保罗这句话中可见，圣经使提摩太有智慧，对耶稣有  
信心，并因此而获得救恩。
```

```
所以我们可以肯定的说，神赐圣经给我们，就是要将救恩显明，  
使我们对耶稣有信心，接受他作救主。约翰则说：「你们查考圣经，因你们以为内中有永主；给我作见证的就是这经。  
然而，你们不肯到我这里来得生命」（约五39~40），故知犹太人查考圣经，是希望从圣经里找到永远的生命。但耶  
稣却指责他们说：「你们寻找不到永生，因为你们不到我这里来寻找。」犹太人不知道主耶稣才是生命的源头，更不  
明白他们查考的圣经，其实就是为耶稣作见证的。因此，总括这两段经文，我们就可以清楚地知道，从圣经所记载的  
信息，再配合上主耶稣自己的言语行为，都证明耶稣即是人类的救主，是人永远生命的源头。"
```

```
RichTextBox1.ForeColor = Color.Magenta
```

```
RichTextBox1.Font = New Font("华文楷体", 14)
```

```
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "Chi" Then
```

```
Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "。这本圣经的译本是中國大陸地区  
最广为使用的基督教圣经版本。1919年出版的中文和合译本圣经，无疑的，是神给华人教会的特别恩赐，藉西方宣  
教士和华人基督徒合作的成果。"
```



```
RichTextBox1.ForeColor = Color.Indigo  
RichTextBox1.Font = New Font("华文楷体", 14)  
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "KJV" Then  
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "即King James Version, 1611年完  
成, 又称詹姆斯国王钦定版圣经, 是英语《圣经》第一个通行版本, 具有里程碑式的意义, 已经成为英国文学的一部分。”
```

```
RichTextBox1.ForeColor = Color.Indigo  
RichTextBox1.Font = New Font("华文楷体", 14)  
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "ESV" Then  
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "即English Standard Version, ESV  
是建立在过去500年英语圣经翻译的最优秀的主流的基础上翻译而成。ESV基本上是直译, 它尽可能寻求得到原始文本  
的精确词义和每一圣经作者的个人风格。这样, 它着重于词与词的对应, 同时考虑到现代英语和原文语言之间在文法、  
句法和成语方面的差异。寻求原始文本的透明度, 让读者尽可能地看到原始文本的结构和意义。”
```

```
RichTextBox1.ForeColor = Color.Indigo  
RichTextBox1.Font = New Font("华文楷体", 14)  
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "ISV" Then  
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "即 International Standard  
Version, 又称国际标准版圣经。”
```

```
RichTextBox1.ForeColor = Color.Indigo  
RichTextBox1.Font = New Font("华文楷体", 14)  
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "BWE" Then  
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "即Bible in WorldWide English, ”  
RichTextBox1.ForeColor = Color.Indigo  
RichTextBox1.Font = New Font("华文楷体", 14)  
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "WEB" Then  
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "即World English Bible, The World  
English Bible is a Modern English update of the American Standard Version of 1901. ”
```

```
RichTextBox1.ForeColor = Color.Indigo  
RichTextBox1.Font = New Font("华文楷体", 14)  
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "JST" Then  
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + ", 即Joseph Smith Translation, 又
```



称为斯密约瑟译本也称作《圣经》灵感本（英文：Inspired Version），这个版本是以《圣经》英王詹姆士钦定本为脚本，在其上直接以英文直接添增修订部份经文而成。它是摩门信仰中的神圣的经文，也是基督社区（先前称作重组后的耶稣基督后期圣徒教会）的教会正典。”

```
RichTextBox1.ForeColor = Color.Indigo
RichTextBox1.Font = New Font("华文楷体", 14)
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "German" Then
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "，即德国最通用的基督教圣经版本，由Martin Luther翻译。1543年，路德翻译的德文圣经面世了，海涅认为路德对圣经的翻译是【创造了德语】，路德所译的圣经是依照着未经后世篡改的希伯来文和希腊文原本。他的翻译为人民提供了对抗天主教会的思想武器。从另一种意义上说，他译的圣经使用的是德国语言，这种统一的语言成为联系德意志各邦的重要纽带。”
```

```
RichTextBox1.ForeColor = Color.Indigo
RichTextBox1.Font = New Font("华文楷体", 14)
End If
```

```
If Me.Tree_version.SelectedNode.Tag = "Herb" Then
    Me.RichTextBox1.Text = Me.Tree_version.SelectedNode.Text + "，希伯来古语圣经。是圣经原本的语言写成。”
```

```
RichTextBox1.ForeColor = Color.Indigo
RichTextBox1.Font = New Font("华文楷体", 14)
End If
```

```
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
bhome.Click
```

```
    fhome = New 主页
    fhome.Show()
    Me.Close()
```

```
End Sub
```

```
Private Sub Button4_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
bexit.Click
```

```
    Application.Exit()
```

```
End Sub
```

```
End Class
```

4.12 意见反馈



Public Class 意见反馈

```

Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles
Button1.Click
    Dim suggestion As String = SqlFilter(TextBox1.Text)
    Dim timestamp As Date = Date.Now
    Dim username As String = loggedInUser.Username
    If TextBox1.Text = "" Then
        MsgBox("请先输入您宝贵的意见！", MsgBoxStyle.OkOnly)
    End If
    Return
    Using sqlConnection As SqlClient.SqlConnection = New SqlClient.SqlConnection(strConnect)
        sqlConnection.Open()
        sqlConnection.CreateCommand()
        Dim sqlCommand As SqlClient.SqlCommand = sqlConnection.CreateCommand
        sqlCommand.CommandText = "use angelabible; " + _
            "insert into [Suggestion]([username],[timestamp],[suggestion]) " + _
            "select '" + username + "', '" + timestamp + "', '" + suggestion + "' " + _
            "where not exists(" + _
            "select * from [dbo].[Suggestion] where [username] = '" + username + "' and
[timestamp]='" + timestamp + "');"
        Dim rowcount As Integer = sqlCommand.ExecuteNonQuery()
        If rowcount > 0 Then
            '添加成功
            MsgBox("您的意见已经告知管理员，谢谢您的帮助！")
        Else
    
```

```
' 添加失败  
MsgBox("数据库链接失败！")  
End If  
End Using  
End Sub
```

```
Private Sub bhome_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles bhome.Click  
fhome = New 主页  
fhome.Show()  
Me.Close()  
End Sub
```

```
Private Sub bexit_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles bexit.Click  
Application.Exit()  
End Sub  
End Class
```

4.13 赞美诗

4.14 帮助

该两项见另一组员的报告，后附，此即为分工处

5. 系统测试

5.1 登陆界面

5.1.1 当登陆的用户名或者对应的密码错误时



5.1.2 当不知道管理员口令而试图进入管理员通道时



5.1.3 当正确输入管理员口令后



5.2 注册界面

5.2.1 当注册时缺少用户分类信息的信仰状况时

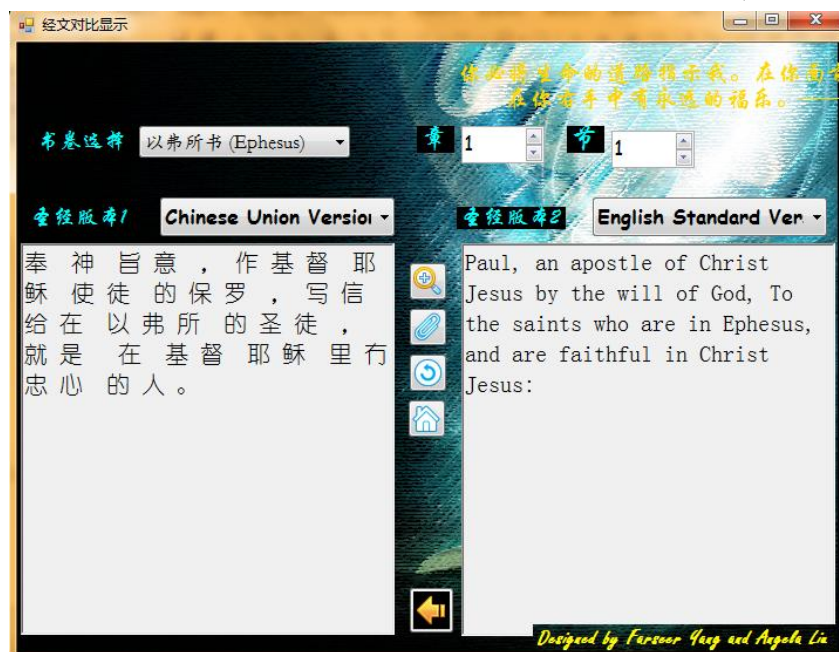


5.2.2 当邮箱的格式不是@的表达式时



5.3 查询界面

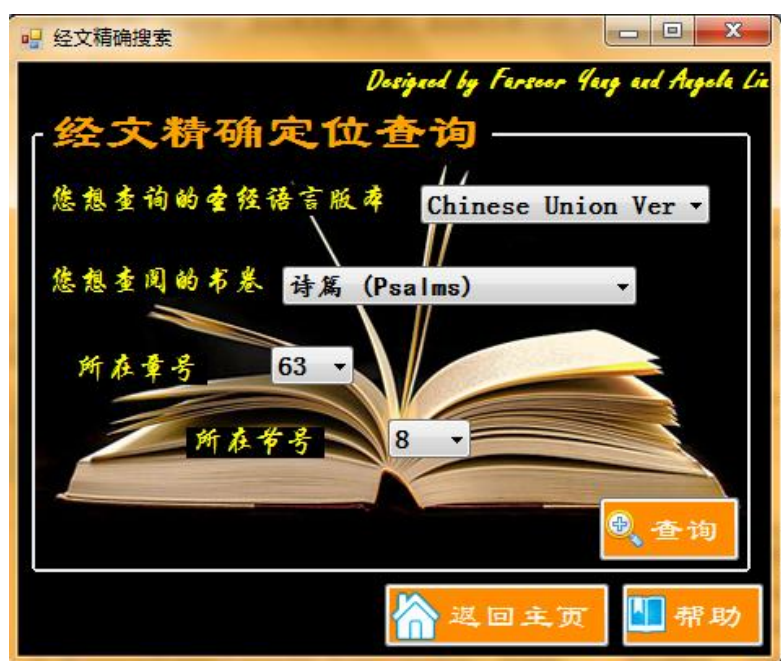
5.3.1 在章节概览里选择《新约》中《以弗所书》时，出现的是该书卷的一章一节



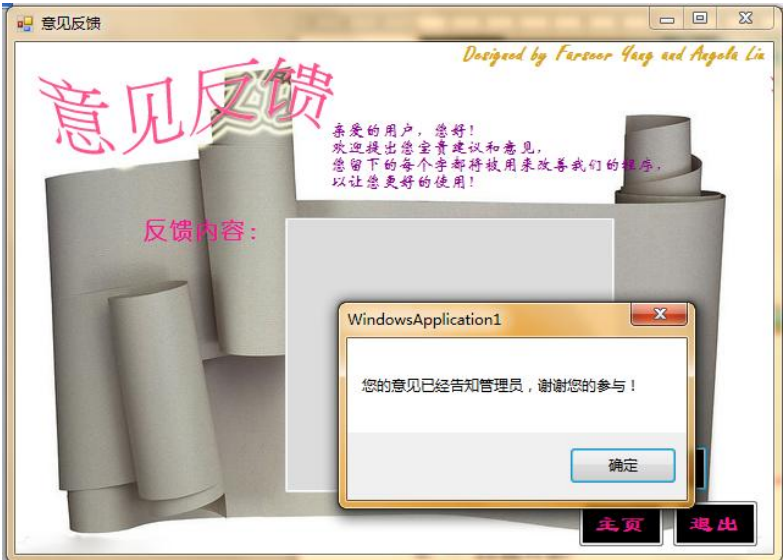
5.3.2 当在对比页面切换版本时，有些版本是没有旧约，有些版本的经文有差别，下面截图为一个特例



5.3.3 在经文精确查询窗口如下图选择，按下查询，后者也显示出来



5.4 意见反馈界面



5.5 管理员登陆界面



6. 自我评述

数据库这门课程的学习，着实，和很多学长同学说的一样，费时间，但也的确学到了很多。这个项目的开发过程中，有很多超过我能力本身的事情，所以，从最基本的数据库，就本圣经的代码开始，都是从圣经的开源代码里找到的，当人，开源代码的平台不是 vb.net，经过朋友帮助，9 本圣经的代码才得以进入我的数据库。此外，在开发的过程中，也遇到了很多问题，很多是程序上的，很多甚至设计了电脑的系统，在各种查询和询问的过程中，一切也算凑活着在时间的重压下解决了。

嗯，开学第一节课我逃课了，第二节课被老师告知此班级被吓得退课 30 多人的时候。我当时有点后怕，在想，我第一节课不该逃得，现在退不掉的。但在一学期的学习中，如果说，这个只是大学里一门拿优良中合格的课的话，那其实也就没有魅力了，而数据库的本身，在我这一学期的学习中，更是师生间，同学间的互动吧。袁老师总是时时更新课件时时的对我们作业中的问题进行细致认真的备课，这样的情况子进大学后，实则很少看到的，在很忙的学期，花那么多的时间，做这个项目，做好这个项目，在学习之余，更是因为，这是自己对袁老师认真教学的一个最大的肯定。

所以，袁老师，谢谢你。我数据库学的比 VB 好。哈哈。

070700 刘虹

7. 项目期间困难和问题汇总



- [Download active-x for 64-bit Windows — for Internet Explorer only \(EXE, 3.2 MB\)](#)
- [Download plug-in for 64-bit Windows — for all other browsers \(EXE, 3.2 MB\)](#)
- [Download plug-in for 64-bit Mac OS X \(DMG, 8.7 MB\)](#)
- [Download plug-in for 64-bit Linux \(TAR.GZ, 4.1 MB\)](#)

最大的问题在于欢迎界面的 flash 在本人的电脑上播放不出，后来把报错的序列号 google 之，发现，在国外很多人也提出相应的问题，进一步查询，发现我是 64 位的系统，所以插件要重新下载。以上为截图，希望对之后上数据库遇见 64 位系统兼容性问题的同学有所帮助