集成测试 International

在集成测试中，需要让软件适应国际，即可以显示多个版本。
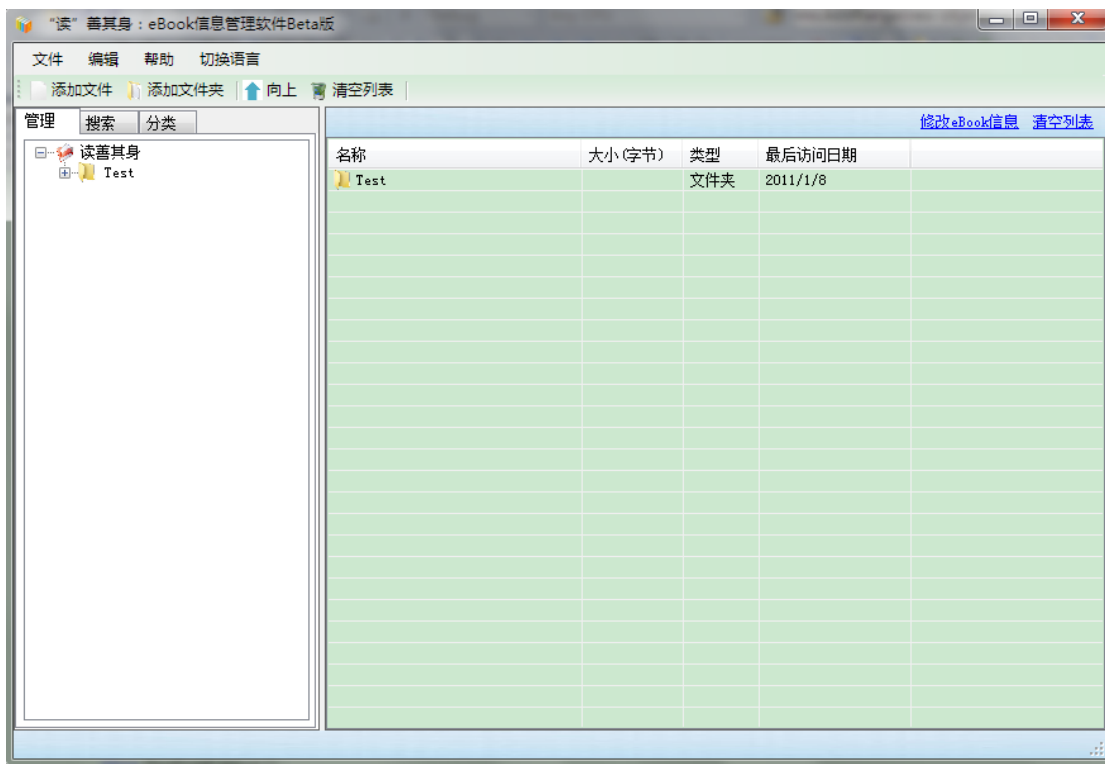
在程序中，主要是将每一个窗口显示文字的代码分离出来，根据按键选择语言。当按下

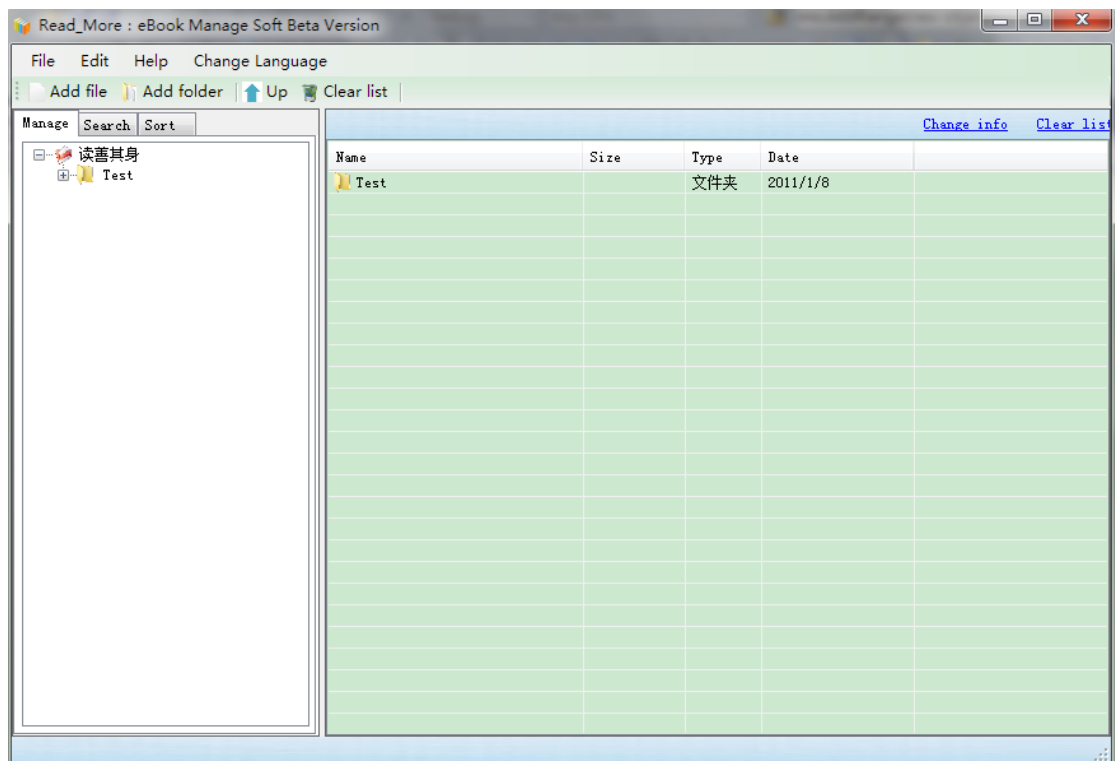切换语言 按钮时，程序内的 choice 会重新被设定，当 choice=false 是，选择中文，当
choice=true 时，选择英文。

一、 主页

中文画面：

主页英文画面：

主窗口语言切换具体代码：

```
    /// <summary>
    ///  设置语言类型
    /// </summary>
    private static bool choice = false;
/// <summary>
///  点击转换语言类型，并设置语言类型标识 choice
/// </summary>
private void changeLanguage_Click(object sender, EventArgs e)
{
        if (choice == false)
               choice = true;
          else
          choice = false;


      setLanguage();
      this.Refresh();
}
/// <summary>
///  返回语言类型
/// </summary>
public static bool isChinese()
{
      return choice;
```

```csharp
        }
        /// <summary>
        ///  设置语言
        /// </summary>
        private void setLanguage()
        {
            if (choice == false)
            {
                this.tlsMenuFile.Text = "文件";
                this.tlsMnuFileAddFile.Text = "添加文件";
                this.tlsMnuFileAddFolder.Text = "添加文件夹";
                this.tlsMnuFileExit.Text = "退出";
                this.tlsMenuTool.Text = "编辑";
                this.tlsMnuToolSearch.Text = "搜索";
                this.tlsMnuToolStat.Text = "分类";
                this.tlsMnuToolClearList.Text = "清空列表";
                this.tlsMenuHelp.Text = "帮助";
            this.tlsMmuHelpSoft.Text = "此软件介绍";
            this.tlsMnuHelpAuthor.Text = "关于作者";
            this.tlsBtnAddFile.Text = "添加文件";
            this.tlsBtnAddFolder.Text = "添加文件夹";
            this.tlsBtnBack.Text = "向上";
            this.tlsBtnClearList.Text = "清空列表";
            this.tpgManagement.Text = "管理";
            this.tpgSearch.Text = "搜索";
            this.btnSearch.Text = "搜索";
            this.grpSearchOptionalItem.Text = "选添查找选项";
            this.grpFileType.Text = "文件类型";
            this.tltInfo.SetToolTip(this.grpFileType, "请按照以下格式输入：\r\n*.pdf *.chm ...");
            this.tltInfo.SetToolTip(this.txtSearchFileType, "请按照以下格式输入：\r\n*.pdf *.chm ...");
            this.grpSearchPath.Text = "查找路径";
            this.chkSearchFileType.Text = "查找文件类型";
            this.tltInfo.SetToolTip(this.chkSearchFileType, "请按照以下格式输入：\r\n*.pdf *.chm ...");
            this.grpSearchMustItem.Text = "必填查找选项";
            this.grpSearchContent.Text = "查找信息范围";
            this.chklSearchContent.Items.RemoveAt(0);
            this.chklSearchContent.Items.AddRange(new object[] {
 "书名"});
            this.grpKeyWord.Text = "查找关键字";
            this.tpgStat.Text = "分类";
            this.btnStat.Text = "分类";
            this.grpStatType.Text = "统计类型";
            this.radFileType.Text = "按文件类型";
            this.grpStatFileType.Text = "文件类型";
```

```
this.tltInfo.SetToolTip(this.grpStatFileType, "请按照以下格式输入：\r\n*.pdf *.chm ...");
this.tltInfo.SetToolTip(this.txtStatFileType, "请按照以下格式输入：\r\n*.pdf *.chm ...");
this.name.Text = "名称";
this.size.Text = "大小(字节)";
this.type.Text = "类型";
this.date.Text = "最后访问日期";
this.tlsMnuLvwOpen.Text = "打开";
this.tlsMnuLvwBack.Text = "向上";
this.tlsMnuLvwRenItem.Text = "重命名此项";
this.tlsMnuLvwDelItem.Text = "删除此项";
this.tlsMnuLvwClearItems.Text = "清空列表";
this.tlsMnuLvwMdfInfo.Text = "修改 eBook 信息";
this.lnkModifyBookInfo.Text = "修改 eBook 信息";
this.lnkClearItems.Text = "清空列表";
this.tlsMnuBookHidePnl.Text = "隐藏";
this.grpBookInfo.Text = "eBook 信息";
this.lblBookName.Text = "书名";
this.lblSaveSuccess.Text = "保存信息成功";
this.btnSave.Text = "保存";
this.lblAuthor.Text = "作者";
this.lblPressDate.Text = "创建日期";
this.lblDescription.Text = "描述";
this.tlsMnuRootCollapse.Text = "折叠";
this.tlsMnuRootAddFolder.Text = "添加文件夹";
this.tlsMnuRootNewNode.Text = "新建节点";
this.tlsMnuRootRenNode.Text = "重命名节点";
this.tlsMnuParentCollapse.Text = "折叠";
this.tlsMnuParentAddFile.Text = "添加文件";
this.tlsMnuParentAddFolder.Text = "添加文件夹";
this.tlsMnuParentNewNode.Text = "新建节点";
this.tlsMnuParentDelNode.Text = "删除节点";
this.tlsMenuParentRenNode.Text = "重命名节点";
this.tlsMnuLeafOpenFile.Text = "打开文件";
this.tlsMnuLeafOpenFolder.Text = "打开文件目录";
this.tlsMnuLeafDelNode.Text = "删除节点";
this.tlsMnuLeafRenNode.Text = "重命名节点";
this.tlsMnuLeafMfyInfo.Text = "修改 eBook 信息";
this.fbdlgAddFolder.Description = "请选择要添加的文件夹";
this.tltInfo.ToolTipTitle = "信息提示";
this.sdlgSaveList.Title = "保存 eBook 列表";
this.ntfyMain.BalloonTipText = "嘿，我在这里~";
this.ntfyMain.BalloonTipTitle = "信息提示";
this.ntfyMain.Text = "eBook 信息管理软件 V1.0";
this.tlsMnuNtfyShow.Text = "显示";
```

```csharp
        this.tlsMnuNtfyAuthor.Text = "关于作者";
        this.tlsMnuNtfyExit.Text = "退出";
        this.Text = ""读"善其身：eBook 信息管理软件 Beta 版";
        this.changeLanguage.Text = "切换语言";
}
else
{
        this.tlsMenuFile.Text = "File";
        this.tlsMnuFileAddFile.Text = "Add file";
        this.tlsMnuFileAddFolder.Text = "Add folder";
        this.tlsMnuFileExit.Text = "退出";
        this.tlsMenuTool.Text = "Edit";
        this.tlsMnuToolSearch.Text = "Search";
        this.tlsMnuToolStat.Text = "Stat";
        this.tlsMnuToolClearList.Text = "Clear";
        this.tlsMenuHelp.Text = "Help";
        this.tlsMmuHelpSoft.Text = "About the soft";
        this.tlsMnuHelpAuthor.Text = "About the Author";
        this.tlsBtnAddFile.Text = "Add file";
        this.tlsBtnAddFolder.Text = "Add folder";
        this.tlsBtnBack.Text = "Up";
        this.tlsBtnClearList.Text = "Clear list";
        this.tpgManagement.Text = "Manage";
        this.tpgSearch.Text = "Search";
        this.btnSearch.Text = "Search";
        this.grpSearchOptionalItem.Text = "Choose the Item searched";
        this.grpFileType.Text = "File Type";
        this.tltInfo.SetToolTip(this.grpFileType, "Follow these formats: \r\n*.pdf *.chm ...");
        this.tltInfo.SetToolTip(this.txtSearchFileType, "Follow these formats: \r\n*.pdf *.chm ...");
        this.grpSearchPath.Text = "Searched path";
        this.chkSearchFileType.Text = "Searched file type";
        this.tltInfo.SetToolTip(this.chkSearchFileType, "Follow these formats: \r\n*.pdf *.chm ...");
        this.grpSearchMustItem.Text = "Items needed";
        this.grpSearchContent.Text = "Searched range";
        this.chklSearchContent.Items.RemoveAt(0);
        this.chklSearchContent.Items.AddRange(new object[] {
"Name of book"});
        this.grpKeyWord.Text = "Keyword";
        this.tpgStat.Text = "Sort";
        this.btnStat.Text = "Sort";
        this.grpStatType.Text = "Stated type";
        this.radFileType.Text = "Accord to file type";
        this.grpStatFileType.Text = "File type";
        this.tltInfo.SetToolTip(this.grpStatFileType, "Follow these formats: \r\n*.pdf *.chm ...");
```

```
this.tltInfo.SetToolTip(this.txtStatFileType, "Follow these formats: \r\n*.pdf *.chm ...");
this.name.Text = "Name";
this.size.Text = "Size";
this.type.Text = "Type";
this.date.Text = "Date";
this.tlsMnuLvwOpen.Text = "Open";
this.tlsMnuLvwBack.Text = "Back";
this.tlsMnuLvwRenItem.Text = "Rename";
this.tlsMnuLvwDelItem.Text = "Delete";
this.tlsMnuLvwClearItems.Text = "Clear list";
this.tlsMnuLvwMdfInfo.Text = "Change infomation of eBook";
this.lnkModifyBookInfo.Text = "Change info";
this.lnkClearItems.Text = "Clear list";
this.tlsMnuBookHidePnl.Text = "Hide";
this.grpBookInfo.Text = "Infomation of eBook";
this.lblBookName.Text = "BookName";
this.lblSaveSuccess.Text = "Success!";
this.btnSave.Text = "Save";
this.lblAuthor.Text = "Author";
this.lblPressDate.Text = "Create Date";
this.lblDescription.Text = "Description";
this.tlsMnuRootCollapse.Text = "Collapse";
this.tlsMnuRootAddFolder.Text = "Add folder";
this.tlsMnuRootNewNode.Text = "New node";
this.tlsMnuRootRenNode.Text = "Rename node";
this.tlsMnuParentCollapse.Text = "Collapse";
this.tlsMnuParentAddFile.Text = "Add file";
this.tlsMnuParentAddFolder.Text = "Add folder";
this.tlsMnuParentNewNode.Text = "New node";
this.tlsMnuParentDelNode.Text = "Delete node";
this.tlsMenuParentRenNode.Text = "Rename node";
this.tlsMnuLeafOpenFile.Text = "Open file";
this.tlsMnuLeafOpenFolder.Text = "Open folder";
this.tlsMnuLeafDelNode.Text = "Delete node";
this.tlsMnuLeafRenNode.Text = "Rename node";
this.tlsMnuLeafMfyInfo.Text = "Modify Infomation about the book";
this.fbdlgAddFolder.Description = "Please choose the folder";
this.tltInfo.ToolTipTitle = "Tips";
this.sdlgSaveList.Title = "Save list";
this.ntfyMain.BalloonTipText = "Hi, I'm Here~";
this.ntfyMain.BalloonTipTitle = "Tips";
this.ntfyMain.Text = "eBook Manage Soft V1.0";
this.tlsMnuNtfyShow.Text = "Display";
this.tlsMnuNtfyAuthor.Text = "About author";
```
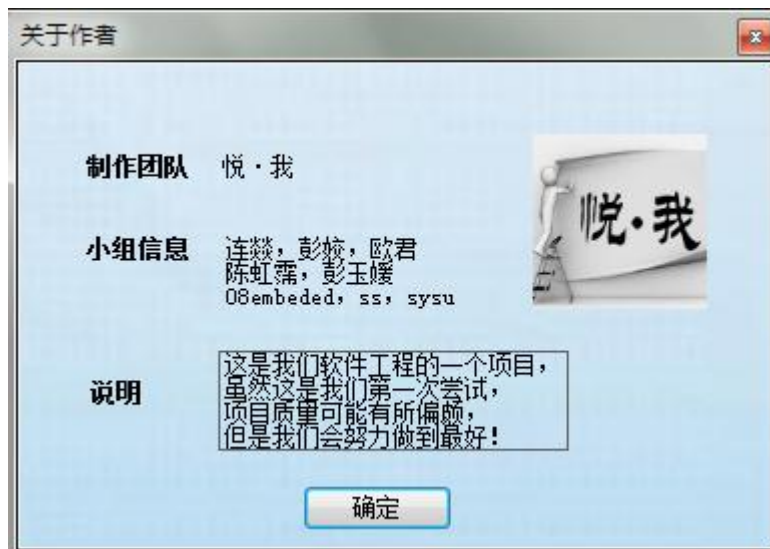
```
        this.tlsMnuNtfyExit.Text = "Exit";
        this.Text = "Read_More：eBook Manage Soft Beta Version";
        this.changeLanguage.Text = "Change Language";
    }//end else
}//end setLanguage
```
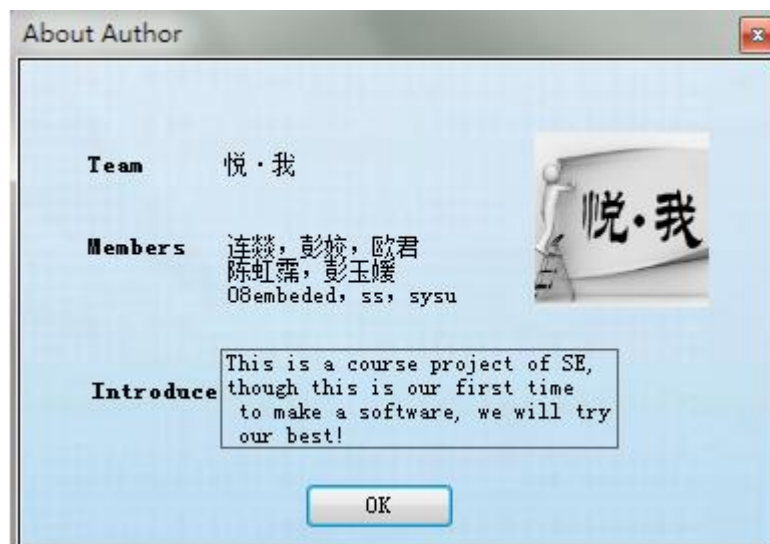
二、 作者介绍

中文：

英文：

作者介绍具体代码：

```
public frmAboutAuthor()
{
    InitializeComponent();
    setLanguage();
}
```
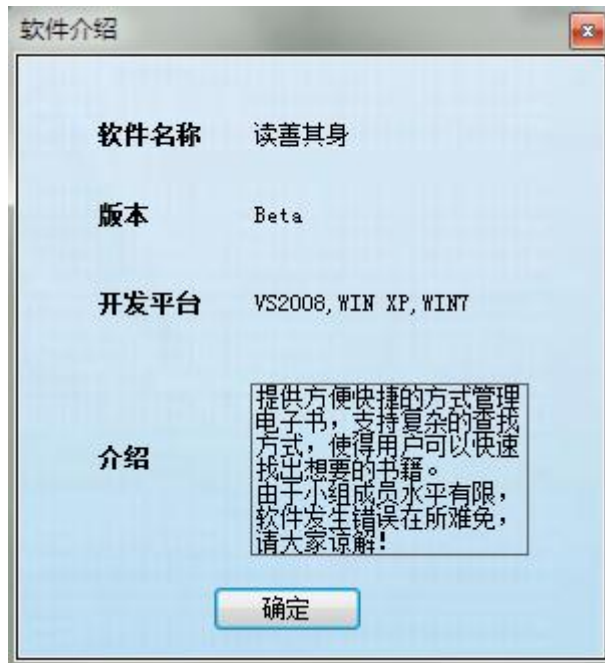
```
public static frmAboutAuthor GetInstance()
{
    instance = new frmAboutAuthor();
    return instance;
}
  /// <summary>
///  设置语言
/// </summary>
private void setLanguage()
{
    bool choice = frmMain.isChinese();

    if (choice == false)
    {
        this.label1.Text = "制作团队";
        this.label2.Text = "小组信息";
        this.label3.Text = "说明";
        this.label4.Text = "悦·我";
        this.label5.Text = "这是我们软件工程的一个项目，\r\n 虽然这是我们第一次尝试，
                        \r\n 项目质量可能有所偏颇，\r\n 但是我们会努力做到最好！";
        this.label6.Text = "连燚，彭姣，欧君\r\n 陈虹霈，彭玉媛\r\n08embeded，ss，sysu";
        this.btnOK.Text = "确定";
        this.Text = "关于作者";
    }
    else
    {
        this.label1.Text = "Team";
        this.label2.Text = "Members";
        this.label3.Text = "Introduce";
        this.label4.Text = "悦·我";
        this.label5.Text = "This is a course project of SE,\r\nthough this is our first time\r\n"
                            +" to make a software, we will try\r\n our best!";
        this.label6.Text = "连燚，彭姣，欧君\r\n 陈虹霈，彭玉媛\r\n08embeded，ss，sysu";
         this.btnOK.Text = "OK";
         this.Text = "About Author";
    }//end else
}
```

三、 软件介绍页面

中文界面：

英语界面：

软件介绍界面具体代码：

```
private frmAboutSoft()
{
        InitializeComponent();
        setLanguage();
}
public static frmAboutSoft GetInstance()
{
    instance=new frmAboutSoft();
```

```csharp
        return instance;
}
/// <summary>
///  设置语言
/// </summary>
private void setLanguage()
{
        bool choice = frmMain.isChinese();
        if (choice == false)
        {
                this.label1.Text = "软件名称";
                this.label2.Text = "版本";
                this.label3.Text = "开发平台";
                this.label4.Text = "介绍";
                this.label5.Text = "读善其身";
                this.label6.Text = "Beta";
                this.label7.Text = "VS2008,WIN XP,WIN7";
                this.label8.Text = "提供方便快捷的方式管理\r\n 电子书，支持复杂的查找\r\n"
                                        +"方式，使得用户可以快速\r\n 找出想要的书籍。\r\n 由于小
                                           组成员水平有限，\r\n"
                                        +"软件发生错误在所难免，\r\n 请大家谅解！";
                this.btnOK.Text = "确定";
                this.Text = "软件介绍";
        }
        else
        {
                this.label1.Text = "Name";
                this.label2.Text = "Version";
                this.label3.Text = "Develop";
                this.label4.Text = "Introduce";
                this.label5.Text = "读善其身";
                this.label6.Text = "Beta";
                this.label7.Text = "VS2008,WIN XP,WIN7";
                this.label8.Text = "Easy to Manage the book\r\n in PC，support complexed \r\n"
                                        + "search, then user can    \r\nfind the book in a tiny
                                           \r\ntime.Limited to our level, \r\n"
                                        + "there may be some bugs. \r\nSo what! Try it!";
                this.btnOK.Text = "OK";
                this.Text = "About software";
          }//end else
}
```
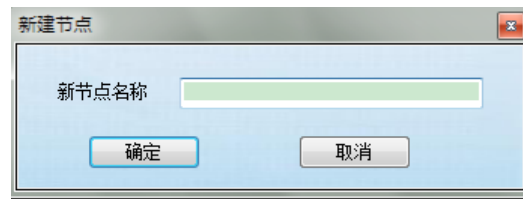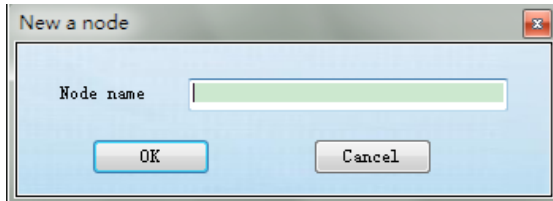
四、　新建节点

中文界面：

英文界面：

新建节点具体代码：

```csharp
public frmNewNode(TreeNode node)
{
    InitializeComponent();
    setLanguage();
    this.curNode = node;
}

private void btnOK_Click(object sender, EventArgs e)
{
    if(this.txtNewNodeName.Text=="")
    {
        if (frmMain.isChinese()==false)
            this.errNewNodeName.SetError(this.txtNewNodeName,"节点名称不能为空");
        else
            this.errNewNodeName.SetError(this.txtNewNodeName, "Please input node name!");
    }
    else if(curNode.Nodes.ContainsKey(this.txtNewNodeName.Text))
    {
        if (frmMain.isChinese() == false)
            this.errNewNodeName.SetError(this.txtNewNodeName, "节点名称重复");
        else
            this.errNewNodeName.SetError(this.txtNewNodeName, "This name already exist!");
    }
    else
    {
        NewNodeName = this.txtNewNodeName.Text;
        this.DialogResult = DialogResult.OK;
    }
}
/// <summary>
///  设置语言
/// </summary>
```

```
private void setLanguage()
{
    bool choice = frmMain.isChinese();

    if (choice == false)
    {
        this.label1.Text = "新节点名称";
        this.btnOK.Text = "确定";
        this.btnCancel.Text = "取消";
        this.Text = "新建节点";
    }
    else
    {
        this.label1.Text = "Node name";
        this.btnOK.Text = "OK";
        this.btnCancel.Text = "Cancel";
        this.Text = "New a node";
    }//end else
}
```
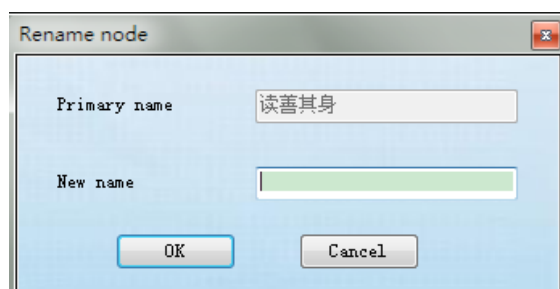
五、 重命名节点

中文界面：

英文界面：

具体代码：

```
public frmRenNode(string curNodeName,TreeNode node)
{
    InitializeComponent();
    setLanguage();
    parentNode = node;
    this.txtOldNodeName.Text = curNodeName;
```

```csharp
        }
        private void btnOK_Click(object sender, EventArgs e)
        {
            if (this.txtRenNodeName.Text=="")
            {
                if (frmMain.isChinese() == false)
                    this.errRepeatedName.SetError(this.txtRenNodeName, "节点名称不能为空");
                else
                    this.errRepeatedName.SetError(this.txtRenNodeName, "Please input node name!");
            }
            else if (parentNode != null && parentNode.Nodes.ContainsKey(this.txtRenNodeName.Text))
            {
                if (frmMain.isChinese() == false)
                    this.errRepeatedName.SetError(this.txtRenNodeName, "节点名称重复");
                else
                    this.errRepeatedName.SetError(this.txtRenNodeName, "The name is already existed!");

            }
            else
            {
                RenNodeName = this.txtRenNodeName.Text;
                this.DialogResult = DialogResult.OK;
            }
        }
        /// <summary>
        /// 设置语言
        /// </summary>
        private void setLanguage()
        {
            bool choice = frmMain.isChinese();

         if (choice == false)
         {
                this.label1.Text = "原节点名称";
                this.label2.Text = "重命名节点名称";
                this.btnOK.Text = "确定";
                this.btnCancel.Text = "取消";
                this.Text = "重命名节点";
         }
          else
         {
                this.label1.Text = "Primary name";
                this.label2.Text = "New name";
                this.btnOK.Text = "OK";
```

```
            this.btnCancel.Text = "Cancel";
            this.Text = "Rename node";
        }//end else
    }
```