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NSID: kkd115, dlk077 Project: WinMerge Change Number: 2 Date: 04/03/2012

Group Number: Danger Twins

About Box: Add Group Information

## 1. Change Request:

Add information about your group in the "About box" of the application. You should add your team name, the names and e-mails of the developers in your group and a brief description of your team. The window should not be made significantly larger, so you'll have to add the capability to scroll or similar feature.

### 2. Concept Location:

Table 1. The list of all the classes visited during concept location.

#	File name	Tool used	Located?	Comments	
1	Src\editlib\chc	In Microsoft Visual	No	[UNCHANGED] We had to see	
	ondlg.cpp	Studio, we used the		what was inside CHCONDLG –	
		"Find in Files" tool		we simply couldn't resist a	
		(Ctrl-F) and searched for		name that enticingly enigmatic.	
		"About"		Plus it had the text "About box"	
				inside, which was the main	
				reason we looked.	
2	Src\AboutDlg.h	Again, we used "Find in	Yes	[CHANGED] Saw the	
		Files"		"AboutDlg" name and	
				investigated, but as this was a .h	
				file it didn't contain code that	
				we were looking for; later, we	
				found out that we indeed	
				needed to modify this file .	
				From this file, it is apparent that	
				variable names in the program	
				are convoluted and confusing.	
3	Src\AboutDlg.cp	Looked through the	Yes	[CHANGED] Initially, we	
	р	results of "Find in Files"	103	weren't sure how to add our	
		from the above step.		changes to this class.	
		from the doore step.		changes to this class.	
				Later, it was discovered that we	
				needed to add a control and a	
				field to show our information.	
4	Src\resource.h	"Find in Files"	Yes	[CHANGED] Looked at some	
				constants found in	
				AboutDlg.cpp and tried to	
				understand what the code was	

				doing and how we could manipulate it. Looked online to find help/information in a variety of locations.	
				We later found that we need to add an ID here (more accurately, the GUI builder in Visual Studio would add it, but the file is changed nevertheless).	
5	Src\Merge.rc	"Find in Files" for a mysterious constant in resource.h	Yes	[CHANGED] We found out that we needed to add lines here to add our information to the about box. We realized that we need to edit this, resource.h, AboutDlg.cpp, and AboutDlg.h to add our information after looking at this file.	

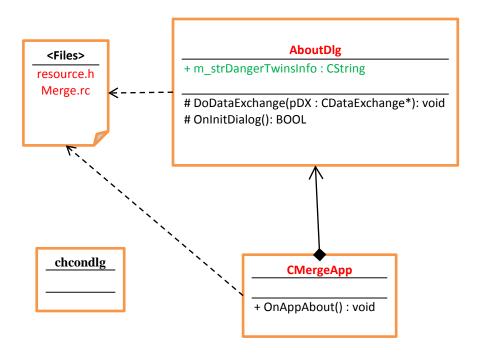
# 3. Impact Analysis:

Table 2. The list of all the classes visited during impact analysis.

#	Class name	Tool used	Impacted?	Comments
1	AboutDlg	"Find in Files"	Yes	Concept Location.
2	CMergeApp	"Find in Files" used to find	No	This class uses an
		references of AboutDlg		instance of
				AboutDlg but it
				doesn't see any of
				the internal changes.
				Changes won't affect
				this class.

# 4. Learning process:

This diagram contains only the methods / variables / etc. relevant to the change. Fields that we feel need to be added to accommodate the change have been highlighted in green.



### 5. Description of the implementation:

(This is a pseudo-implementation; we could not get the project to compile. Again, additions that we feel need to be made are in green.)

AboutDlg needs to have a field added that contains our information. This information needs to be passed to the CDataExchange instance in the DoDataExchange method so that it appears in the dialog box shown by Windows:

```
<AboutDlg.h>
      CStatic
                    m ctlCompany;
      CStaticLink m ctlWWW;
      CString m_strVersion;
                   m_strDangerTwinsInfo;
      CString
                   m strPrivateBuild;
      CString
<AboutDlg.cpp>
      void CAboutDlg::DoDataExchange(CDataExchange* pDX)
             DDX_Text(pDX, IDC_DANGERTWINS_INFO, m_strDangerTwinsInfo);
             DDX_Text(pDX, IDC_VERSION, m_strVersion);
             DDX Text(pDX, IDC PRIVATEBUILD, m strPrivateBuild);
      }
      BOOL CAboutDlg::OnInitDialog()
             m strDangerTwinsInfo = "Danger Twins\nDylan Knowles, Kristen
             Dergousoff\ndylanknowles@usask.ca, kkd115@mail.usask.ca\nDangerously good
             coders.";
      }
```

"resource.h" needs an ID to be added for the new text field that we are adding to the dialog box. Apparently, C++ cannot touch the text field without an ID for it:

```
#define IDC_COMPARE_QUICKC_LIMIT 1350
#define IDC_DANGERTWINS_INFO 1351
#define IDC_EDIT_WHOLE_WORD 8603
```

"Merge.rc" needs to be told where to put our text field and how big to make it.

```
LTEXT "(Private Build)",IDC_PRIVATEBUILD,63,33,153,8

LTEXT "All rights reserved.",IDC_STATIC,7,60,170,8

LTEXT "[DangerTwins info will replace this text]",

IDC_DANGERTWINS_INFO,7,60,170,8

LTEXT "Visit the WinMerge HomePage!",IDC_WWW,7,79,209,8
```

Unfortunately, it isn't clear how to add a scrollbar to this location; we presume that using the GUI editor in Visual Studio could take care of this for us. If we could compile the code, we would investigate this addition further.

#### 6. Sources:

- a. http://msdn.microsoft.com/en-us/library/xwz5tb1x.aspx Talks about the DDX methods in AboutDlg.cpp.
- b. http://www.functionx.com/visualc/classes/radiobuttons1.htm Gave us ideas about what ID's were for.
- c. http://msdn.microsoft.com/en-us/library/hbdyk609.aspx Information about the CDataExchange class.