

Visuals and explanations of the computerised system

LoginPage

Enter details

username: UserLogin input

passphrase: UserPassword input

user type: ☐ Student ☐ Parent ☐ Mentor — UserType input

Submit inputs

This system is designed to support PHP version 5.2.8 or higher and MYSQL version 5 or higher.

In this page there are three user inputs, with the additional submit button. Each input is forwarded to ProcessLoginPage, which is used to find a match in the database. If the search was unsuccessful, the user is redirected back to LoginPage.

Error - unsuccessful login attempt for username: myusername

Enter details

username:

passphrase:

user type: ☐ Student ☐ Parent ☐ Mentor

This system is designed to support PHP version 5.2.8 or higher and MYSQL version 5 or higher.

At the upper region of the page the user is shown what user login name they used (if **UserLogin** was entered). This helps with exact spelling they input and whether they misspelt their login name.

DatabaseConnectPage

This page specifies that the system must connect to a database before executing SQL queries. It connects to a server using a username and password. If access is approved, it then proceeds to connecting to a database. There is no user interface for this page, unless there is an error, where the page loading is halted before proceeding. This error would be output to the user when failing to connect to a server. This page is used in most other pages in the website.

ProcessLoginPage

Essentially this page is fed in the variables **UserLogin**, **UserPassword** and **UserType** from the previous page. **UserType** is read and depending on which value it is a certain table within the database is queried. If there is a record with both a matching **UserLogin** and **UserPassword** then there are other details of the user which are saved to session variables, hence there is no requirement of forwarding such properties as **UserFirstName**, **UserID** or **UserType**. If, however, the query for a matching **UserLogin** and **UserPassword** was unsuccessful, the user is redirected back to LoginPage. If a **UserLogin** value was entered beforehand, this is forwarded back to LoginPage. There is no user interface for this page.

LoggedInPage

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The main purpose of this page is to behave as a master page. This is because the user may choose to use different components of the system from a single page. This is not present in any other page of the system. The user's details are also displayed using session variables. These are **UserLogin**, **UserType**, **UserFirstName**, **UserSurname**, **UserID**, **StudentForm** (students), **LoggedIn** (for detecting whether a session is still working correctly), **UserEmail** and **UserPhoneNumber**.

Logged in as student. _____ UserLogin
Your name is FIRSTNAME SURNAME. _____ UserFirstName and UserSurname
You are a student. _____ UserType (name)
Your student user ID is 8. _____ UserID
Your email address is example@email.com _____ UserEmail
Your phone number is 123123123 _____ UserPhoneNumber
Your form group is FORM. _____ StudentForm (students only)
Session logged in _____ LoggedIn

[View meetings](#) _____ Hyperlink to ViewMeetingPage
[View contacts](#) _____ Hyperlink to ViewContactPage
[Log out](#) _____ Hyperlink to LogoutPage

ViewMeetingPage

This page displays any existing meetings which are relevant to the user. Students and mentors are directly connected with each meeting they have, but parents are indirectly connected through their students. Students may have a bare system once they have a **UserLogin** and **UserPassword** in StudentTable. The screenshot below is typical for such a scenario.

View meetings

No parent found. Please search for one and make a request. _____ Message displayed if no ParentID found
No mentor found. Please search for one and make a request. _____ Message displayed if no MentorID found

[Homepage](#) _____ Hyperlink to LoggedInPage

Once the student has their contacts (see ViewContactPage and SearchContactPage) they may view any meetings their mentor uploads. The mentor is required to add a meeting and therefore no meetings currently exist for the student as of yet.

View meetings

Your parent's name is FIRSTNAME SURNAME. Parent ID is 2. _____ Parent detected and displayed
Your mentor's name is FIRSTNAME SURNAME. Mentor ID is 2. _____ Mentor detected and displayed

FIRSTNAME's meetings:
There are currently no meetings.

[Homepage](#)

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Finally, there will be a table displayed once the query for existing meetings is executed. The query for searching meetings is to search for any meeting where **StudentID** in the meeting is equal to **UserID**. For mentors this is true for their ID values as well. For parents, their student's ID value is used for their meetings.

Parent and mentors may have several students. In this case each meeting is displayed using primarily the **StudentID** values.

View meetings

Your parent's name is FIRSTNAME SURNAME. Parent ID is 2.

Your mentor's name is FIRSTNAME SURNAME. Mentor ID is 2.

FIRSTNAME's meetings:

Date	Student ID	Mentor ID	Meeting ID	
Monday 26 April	8	2	30	View
Tuesday 27 April	8	2	28	View
Wednesday 28 April	8	2	29	View
Thursday 13 May	8	2	31	View

Hyperlink to ViewTargetPage
for each individual record

[Homepage](#)

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View meetings

Student: FIRSTNAME SURNAME. Student ID is 8. _____ Each student will be displayed in a list
Their mentor's name is FIRSTNAME SURNAME. Mentor ID is 2. _____ This student's other user (their mentor) will be displayed here

Student: firstname surname. Student ID is 9. _____ Other students appear below
Their mentor's name is FIRSTNAME SURNAME. Mentor ID is 2. _____ This student's other user (their mentor) will be displayed here

FIRSTNAME's meetings:

Date	Student ID	Mentor ID	Meeting ID	
Monday 26 April	8	2	30	View
Tuesday 27 April	8	2	28	View
Wednesday 28 April	8	2	29	View
Thursday 13 May	8	2	31	View
Tuesday 1 June	8	2	32	View

firstname's meetings:

There are currently no meetings.

[Homepage](#)

When a user makes a hyperlink request, they are directed to ViewTargetPage. The specific **MeetingID** value is used as a GET variable because it is required to be forwarded to multiple pages. It is not saved as a session variable because during a session meeting data may change, hence avoids the risk of broken links, incorrect meetings and becoming outdated.

Mentors are able to also add, view and delete meetings. When editing or deleting a meeting, the **MeetingID** value is required so that the correct meeting is loaded. In EditMeetingPage and DeleteMeetingPage, not only does the system check if the user is a mentor, it also verifies if they are the one who created the meeting they request to edit/delete.

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View meetings

Student: FIRSTNAME SURNAME. Student ID is 8.

Their parent's name is FIRSTNAME SURNAME. Parent ID is 2.

FIRSTNAME's meetings:

Date	Student ID	Mentor ID	Meeting ID			
Monday 26 April	8	2	30	View	Edit	Delete
Tuesday 27 April	8	2	28	View	Edit	Delete
Wednesday 28 April	8	2	29	View	Edit	Delete
Thursday 13 May	8	2	31	View	Edit	Delete

[Add meeting](#)


[Homepage](#)

AddMeetingPage

This page is only for mentors. The mentor is able to assign a meeting to a particular date and to a particular student. **MeetingDate** is composed of **day** and **month**. The value for **StudentID** determines the student this meeting is set for. The **MentorID** and the **MeetingID** values are added automatically. The month possibilities include September, October, November, December, January, February, March, April, May and June. The student options are all the students who are connected with the mentor. By default each input area is not set. Whenever the page is loaded but not all required fields have been entered (yet), the visual below is displayed:

Add meeting

Please enter information in each field and then submit.

Meeting date: day month  ——— The day is a numerical input, the month is a selection box

Select your student

StudentID selection - additional details displayed

Submit button

[Cancel and view meetings](#)

Hyperlink to ViewMeetingPage

This page submits the input information to itself, which is then analysed and any issues arising are reported and the mentor is required to re-enter their meeting information. When

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an incorrect date is entered, the message responds with 'Error with date input information. Please enter an appropriate date.'

Add meeting

Error with date input information. Please enter an appropriate date.

Meeting date: day month

Select your student

Submit

[Cancel and view meetings](#)

No errors may happen with student inputs because the selection is much less error-prone than input text or integers.

ViewMeetingPage after adding a meeting - 12 May.

FIRSTNAME's meetings:

Date	Student ID	Mentor ID	Meeting ID			
Monday 26 April	8	2	30	View	Edit	Delete
Tuesday 27 April	8	2	28	View	Edit	Delete
Wednesday 28 April	8	2	29	View	Edit	Delete
Wednesday 12 May	8	2	32	View	Edit	Delete
Thursday 13 May	8	2	31	View	Edit	Delete

[Add meeting](#)

[Homepage](#)

EditMeetingPage

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Edit meeting

Current meeting date is Wednesday 05 May 2010

Meeting date: day month

Current student is FIRSTNAME SURNAME, form FORM, ID 8.

Select your student

Current meeting ID: 32

[Cancel and view meetings](#)

This page is similar to AddMeetingPage. It is only for mentors and has an identical interface. It requires an existing **MeetingID** which has data to edit in each field. The information is already selected and output in the input fields. This enables the mentor to still retrieve the information even after an error in data input. When other information is input and the new information submitted, the current meeting is updated with the new information. The page updates the meeting, rather than adds one, but the infrastructure remains the same as in AddMeetingPage.

DeleteMeetingPage

Only mentors are permitted to access this page. A value for **MeetingID** is required. This is forwarded from ViewMeetingPage. The SQL query fetches the meeting information (**MeetingID**, **StudentID**, **MentorID**, **MeetingDate**) and displays it to the screen. There is a submit button. This causes the page to reload with the action called to delete the meeting from MeetingTable.

Delete meeting

Current meeting date is Monday 04 April 2010	Output MeetingDate
Current student is FIRSTNAME SURNAME, form FORM, ID 8.	Output StudentFirstName, StudentSurname, StudentForm and StudentID
Current meeting ID: 30	Output MeetingID
<input type="button" value="Submit"/>	Submit button
Cancel and view meetings	Hyperlink to ViewMeetingPage

ViewTargetPage

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View targets

Meeting ID: 30

You are connected to this meeting.

Targets for this meeting:

User type	User's target	Date due	Student comment	Parent comment	Mentor comment	Target met?	Target ID
Student	Student target	Friday 23 April	(add/edit comment) (delete comment)			No	26
Parent	Parent target	Monday 3 May	Student comment (add/edit comment) (delete comment)	Parent comment	Mentor comment	No	23
Student	Other student target	Tuesday 4 May	(add/edit comment) (delete comment)			Yes	24
Mentor	Mentor target	Wednesday 5 May	(add/edit comment) (delete comment)		Mentor comment	No	27

[View meetings](#)

ViewTargetPage is a page which is forwarded the value **MeetingID** from ViewMeetingPage. First, the system verifies whether the user is connected with the meeting by using session variables. If successful, the user may view the status of their targets. TargetTable is queried with a search for **TargetUserType** **UserTarget**, **DateDue**, **StudentComment**, **ParentComment**, **MentorComment**, **TargetMetYet** and **TargetID**. If any targets are displayed a table is displayed. In the user's comments column there are the options to add, edit or delete a comment. When choosing to add or edit comment, the user is directed to CommentPage where they may add or alter a comment of their own for a specific target (no specific action set). When they choose to delete the target they are taken to ComentPage which will automatically delete the given comment (the action from the hyperlink is set to delete). In both cases **MeetingID** and **TargetID** are forwarded to CommentPage. This enables the system to find and allocate a space for the correct comment. Mentors are able to add, edit or delete targets. TargetTable is used in performing these tasks. When viewed by mentors there is a similar layout for the adding, editing and deleting target links as with the links for meetings in ViewMeetingPage.

AddTargetPage

This page is for mentors only. **MeetingID** is forwarded from ViewTargetPage. The mentor inputs the user the target is set for, the target, the day and month it is due in and the mentor's comment. The fields **StudentComment**, **ParentComment**, **TargetMetYet**, **TargetID** and **MeetingID** are all automatically assigned values. The variables **TargetUserType**, **UserTarget**, **day**, **month** and **MentorComment** are input by the user. Only **UserTarget**, **day** and **MentorComment** require keyboard character input.

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Which of the users is this target set for? TargetUserType

User target: UserTarget

Comment: MentorComment

Date target due: day month day and month inputs

Submit button

[Cancel and view targets](#) Hyperlink to ViewTargetPage

Which of the users is this target set for?

Drop-down list for UserTargetType

Drop-down list for month

EditTargetPage

Like AddTargetPage, only mentors may access this page and there are the same inputs, but also an additional configurable input, **TargetMetYet**, which is not available in AddTargetPage. EditTargetPage receives the forwarded values for **MeetingID** and **TargetID** from the previous page. The **TargetID** value is used to find other properties of the target using an SQL query. **TargetMetYet** is a selection - either 'Yes' or 'No' - in this case it is '1' or '0' respectively. By default each input field is set to the existing values. Each text or integer field is displayed in the input boxes and selections set to current values. By default, the field **TargetMetYet** is initially 'No', but can be configured to 'Yes' once the target is complete. Once the fields are set, the user may edit them and then submit as with adding a target. Instead of adding to TargetTable, the current target is edited. The image describing the interface has all its fields filled, including the commentary fields.

Which of the users is this target set for?

User target:

Student's comment:

Parent's comment:

Comment:

Date target due: day month

Target met? ☐ Yes ☒ No

[Cancel and view targets](#)

Visuals and explanations of the computerised system

DeleteTargetPage

This page is for mentors only. **MeetingID** and **TargetID** are forwarded from ViewTargetPage and are used to verify if target belongs to the meeting. In turn, to check if the meeting is connected with the user. If successful, the current target's details are displayed and the user is prompted once more to delete the target. Once the user makes a hyperlink request, the target is deleted from TargetTable.

Target for user: parent _____ TargetUserType
Target: Parent target _____ UserTarget
Student comment: Student comment _____ StudentComment
Parent comment: Parent comment _____ ParentComment
Mentor comment: Mentor comment _____ MentorComment
Date target due: Monday 3 May _____ DateDue - expressed as a day, date and month
Target Met: No _____ TargetMetYet
 _____ Submit button
[Cancel and view targets](#) _____ Hyperlink to ViewTargetPage

CommentPage

This page enables the user to add a comment to a specific target. The user must be verified to ensure that the target belongs to the meeting they are browsing through. The meeting must also be connected with the user. If the user is verified then they may add or edit a comment. They also have an option to delete their comment. TargetTable is queried for each comment in the specified target and whichever comment slot is allocated to the user is loaded into a variable which the page uses. In each case the comment slot in the target is updated (set to a new value or set to a null value). The variable **action** decides which task the system should perform.

Comment:

[Delete comment](#)

[Cancel and view targets](#)

ViewContactPage

Depending on what type of user browses this page, there are various differences.

For students:

First, the system checks if the student has a parent connection, then a mentor connection. If a user connection is found (an entry of **ParentID/MentorID** in StudentTable) then this other user's ID is used to find further details in their respective user table. The other user's details should be displayed where the search has found results. **ParentFirstName**, **ParentSurname**, **ParentID** are all displayed to the user, unless an error occurs, where some data may be missing. **ParentEmail** and **ParentPhoneNumber** will be displayed if no

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issues occur with displaying the mandatory information and if there is a field entry for the user. **ParentEmail** and **ParentPhoneNumber** are not necessary fields, but are useful in the case of contacting externally from the mentoring system. Like ParentTable, MentorTable stores similar information which is retrieved by ViewContactPage: **MentorFirstName**, **MentorSurname**, **MentorID**, **MentorEmail** and **MentorPhoneNumber**.

View contacts

No parent found. You may not be assigned to a parent. If this is the case, use the 'Search contact' link and follow the page instructions to request your parent user or add them if they have requested you. If you already have a parent entry but this message is displayed, please consult the system administrator.

The default view of ViewContactPage for students

No mentor found. You may not be assigned to a mentor. If this is the case, use the 'Search contact' link and follow the page instructions to request your mentor user or add them if they have requested you. If you already have a mentor entry but this message is displayed, please consult the system administrator.

[Search contact](#)

[Go to main page](#)

Requests will only be displayed if a parent or mentor has requested for the current student or if the student requests a parent or mentor.

You have a request from FIRSTNAME SURNAME.

Requester user ID: 2.

Requester is a parent.

[\(Add contact\)](#)-----[\(Reject contact\)](#)

First there are requests from other users. Parents appear in the list before mentors. Only the basic details appear in the request.

You have a request from FIRSTNAME SURNAME.

Requester user ID: 2.

Requester is a mentor.

[\(Add contact\)](#)-----[\(Reject contact\)](#)

You have requested the user FIRSTNAME SURNAME.

Requested user ID: 2.

Requested user is a parent.

[\(Cancel request\)](#)

Requests for other users appear after the requests for the current user

You have requested the user FIRSTNAME SURNAME.

Requested user ID: 2.

Requested user is a mentor.

[\(Cancel request\)](#)

For parents:

When retrieving contact information there is an SQL query for finding the current user's **ParentID** in StudentTable. Any student with the same **ParentID** entry as the current user's ID will be returned. Their details, **StudentFirstName**, **StudentSurname**, **StudentForm** and **StudentID** are displayed to the parent. **StudentEmail** and **StudentPhoneNumber** are also displayed if available. Using each student's **StudentID** the system executes SQL queries to find their **MentorID** values, then search MentorTable for the mentor's details wherever an identical **MentorID** value appears to those being searched. The mentor

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search is executed each time a **StudentID** is found (so that students and mentors are paired correctly).

View contacts

Your student is FIRSTNAME SURNAME.
StudentID is 8.
Student form is FORM.
Student email is example@email.com.
Student phone number is 123123123.
[\(Delete contact\)](#)

Their mentor is FIRSTNAME SURNAME,
Mentor ID = 2. Their email address is example@email.com . Their phone number is 123123123 .

Your student is firstname surname.
StudentID is 9.
Student form is form.
[\(Delete contact\)](#)

Their mentor is FIRSTNAME SURNAME,
Mentor ID = 2. Their email address is example@email.com . Their phone number is 123123123 .

Your student is Sacha Gurm-Villet.
StudentID is 11.
Student form is 11FRM.
Student email is student@example.com.
Student phone number is 12345678901.
[\(Delete contact\)](#)

Their mentor is Sacha Gurm-Villet,
Mentor ID = 3. Their email address is mentor@example.com . Their phone number is 12345678901

In the case parents have several students, each will be listed together with their mentor. As this image demonstrates the upper two students have the same mentor, but the third does not.

This student has a different mentor to the other two. Both users here some details in common with each other but the other details reveal that it is another mentor

Only requests between the current parent and students are displayed.

For Mentors:

This page does not differ from behaviour as with a parent, except that instead of a **ParentID** being searched in StudentTable, a **MentorID** is searched. So the current user first needs to know of each student, coupled with a search for their parent. The SQL queries for this scenario are identical to that for parents, except that mentor properties and parent properties are reverse in these queries.

Your student is firstname surname.
StudentID is 9.
Student form is form.
[\(Delete contact\)](#)

Their parent is FIRSTNAME SURNAME,
Parent ID = 2. Their email address is example@email.com . Their phone number is 123123123 .

The mentor is directly connected with their student, but indirectly connected with their student's parent. Hence, the mentor may only delete the student. If the student connection is broken, the mentor is not connected with the student's parent either.

In general:

If no users are found to be connected with the current user, the system will report a message to notify the user of this. If there is a connection with one user, but another user cannot be found, the user is notified of this. Students would be directly instructed to search for their missing contact with the former notification. Parents and mentors would view the latter notification if their student is missing an entry for the opposite user type in StudentTable. The user may also choose to delete a connection with one of their currently

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connected users. This directs the user to ViewContactPage with other variables declared, **deleteusertype**, **deleteuserid** and the value for **StudentID**. This enables the system to search StudentTable for the given **StudentID**. Where the **StudentID** matches the given one, the user type is used to check whether the **ParentID/MentorID** value in the StudentTable entry matches the given value from ViewContactPage. If all values match, the **ParentID/MentorID** value is nulled and the connection between the users is eliminated.

Afterwards, the system checks any requests to or from the current user. Any requests the current user made for another user is displayed with the details of the user they requested. The current user has the option to cancel the request. This would link to AddRequestPage with parameters for **RequestedUserID**, **RequestedUserType** and **action** - set to 2 - delete a request for another user. If the current user was requested by another user, the current user would have the option to accept and add contact, or reject the request. In either case, **RequesterUserType** and **RequesterUserID** would be forwarded to each hyperlink's respective page. Adding a contact would link to AddContactPage to add user from upon request. Rejecting a contact would link to AddRequestPage with **action** set to 0 - delete a request from another user. The current user may also wish to search contact or go back to the main page. There is a hyperlink to SearchContactPage and a hyperlink to LoggedInPage.

You have a request from FIRSTNAME SURNAME.

Requester user ID: 8.

Requester is a student, their form is FORM.

[\(Add contact\)](#)-----[\(Reject contact\)](#)

Parents and mentors may only have requests between themselves and a student who they are not currently connected with.

You have requested the user FIRSTNAME SURNAME.

Requested user ID: 8.

Requested user is a student, their form is FORM.

[\(Cancel request\)](#)

SearchContactPage

Students will have different scenarios depending on who they have a connection with. If the student has no connection with another user, they will have to choose to search for a parent or a mentor. If they have one, they can only search one from the other user category. If a student has both user type connections then they may not search for more contacts.

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Search contact

Search a parent or mentor _____ Students with no contacts will see this message

First Name: _____ Surname: _____ ID: _____

Begins with: ☐ Ends with: ☐ Contains: ☒ Begins with: ☐ Ends with: ☐ Contains: ☒ Is exactly: ☐ Contains: ☒ _____

RequestedUserFirstName, RequestedUserSurname and RequestedUserID input boxes

☐ Parent ☐ Mentor _____ RequestedUserType

Please select your search criteria. By default, if no fields have entered data all of the possible users are displayed. _____ Default message upon page upload; Also appears if no user type is specified

[View contacts](#) _____ Hyperlink to ViewContactPage

Search contact

Search a mentor _____ In this case the student has a ParentID entry but not a MentorID entry so they may only search a mentor.

First Name: _____ Surname: _____ ID: _____

Begins with: ☐ Ends with: ☐ Contains: ☒ Begins with: ☐ Ends with: ☐ Contains: ☒ Is exactly: ☐ Contains: ☒ _____

Each input variable here is reset to blank input boxes and search methods reset to defaults each time the page loads, including searches executed by the system.

Mentor first name	Mentor surname	Mentor ID	
me1fn	me1sn	1	Add request
FIRSTNAME	SURNAME	2	Add request
Sacha	Gurm-Villet	3	Add request
firstname	surname	10	Add request

[View contacts](#) _____ No message is displayed here, but the ViewContactPage hyperlink remains

Parents and mentors have a similar interface as a student, except that they may only search for students and there is also the option to search a student form group.

Visuals and explanations of the computerised system

Search contact

Search a student

This is the interface for parents and mentors when browsing SearchContactPage

First Name:	Surname:	ID:
Begins with: <input type="radio"/>	Begins with: <input type="radio"/>	Is exactly: <input type="radio"/>
Ends with: <input type="radio"/>	Ends with: <input type="radio"/>	Contains: <input type="radio"/>
Contains: <input checked="" type="radio"/>	Contains: <input checked="" type="radio"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Student form: <input type="text"/> <input type="button" value="v"/>		
<input type="button" value="Submit"/>		

Please select your search criteria. By default, if no fields have entered data all of the possible users are displayed.

[View contacts](#)

AddRequestPage

This page uses different inputs depending on what value the variable **action** is assigned to. If action is set to 1 then **RequestedUserType** and **RequestedUserID** are loaded from SearchContactPage. This is when a user adds a request. If the same request already exists then no request is added. The user's own **UserType** and **UserID** are then used so that a request record may be added to RequestTable. If **action** is set to 2, **RequestedUserType** and RequestedUserID are loaded from ViewContactPage. This action is set when cancelling a request made for another user. The request is simply deleted from RequestTable. When **action** is 0, this is when a user rejects a request made from another user. **RequesterUserType** and **RequesterUserID** are loaded in this case because the other user is the requester, not the requested user. The request is deleted from RequestTable. There is no user interface for this page.

AddContactPage

From ViewContactPage the variables **RequesterUserType** and **RequesterUserID** are loaded to find who requested the current user which the current user accepted to add. The values of **UserType** and **UserID** are assigned to **RequestedUserType** and **RequestedUserID** respectively. If the request was made between a student and a parent then the parent's value for **ParentID** is added to the **ParentID** entry for the current student's record in StudentTable. If the request was made between a student and a mentor then the mentor's value for **MentorID** is added to the **MentorID** entry for the current student's record in StudentTable. The request between the two users is deleted from RequestTable. No user interface exists for this page.

LogoutPage

This page eliminates the session. All session variables are unset and the user is redirected to LoginPage. No user interface exists for this page.