

# **Pair Eval User Guide**

## ***Contents***

<b>Introduction</b>	2
<b>Getting Started</b>	
Creating a New Administrator or Instructor	3
Creating a New User	4
Creating a New Course	5
Creating a New Section in a Course	6
Creating a New Assignment	7
Assigning Groups for Evaluation	9
<b>Administration</b>	
Assigning a TA	10
Viewing Students in a Course and Section	11
Querying Student Information	12
Viewing Peer Evaluation Reports	13
<b>Information for Student Users</b>	
Registering for Courses	15
Setting Partner Preferences	16
Performing Peer Evaluations	17
Optional Surveys	19
<b>Account Management</b>	
Changing Password / Updating Account Information	20

<b>Customizing PairEval's Look</b>	21
<b>Development Notes</b>	21
<b>Troubleshooting/Questions/Comments</b>	21
<b>Author Information</b>	21
<b>Legal Notice</b>	21
<b>Website</b>	21

### ***Introduction***

The Pair Eval system was developed at North Carolina State University to aid professors in the Computer Science program who employ pair programming or group work in their classes. The system provides a means for instructors and TAs to set up and manage pairs and groups with as little difficulty as possible. More importantly, the system allows students to provide peer evaluations of their partners' performances during group or paired assignments. This gives teachers insight into potential problems, such as an unfair workload or a slacking student, which may bear out further investigation. This system has been used for several years in the North Carolina State undergraduate software engineering class to identify groups experiencing difficulties in their social dynamics throughout the semester. This has allowed faculty and staff to successfully intervene and address problems as they arise, rather than at the end of the semester.

## 1. Creating a New Administrator or Instructor

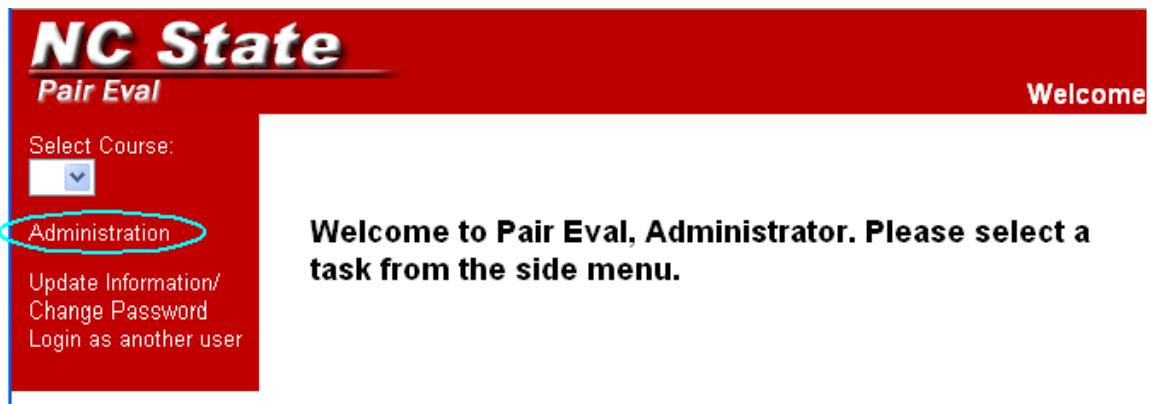
*Prerequisites:* None

*Who:* Administrators only

1.1. Navigate to the main login page (this is the root page by default) and login using an administrator account.

- NOTE: If you have not yet created another administrator account, the default administrator User ID is 'admin' with password 'admin'. You should change this password immediately.

1.2. Once logged in, click on the Administration link.



1.3. On the Administration Tasks page, enter the information for the new instructor and/or administrator.

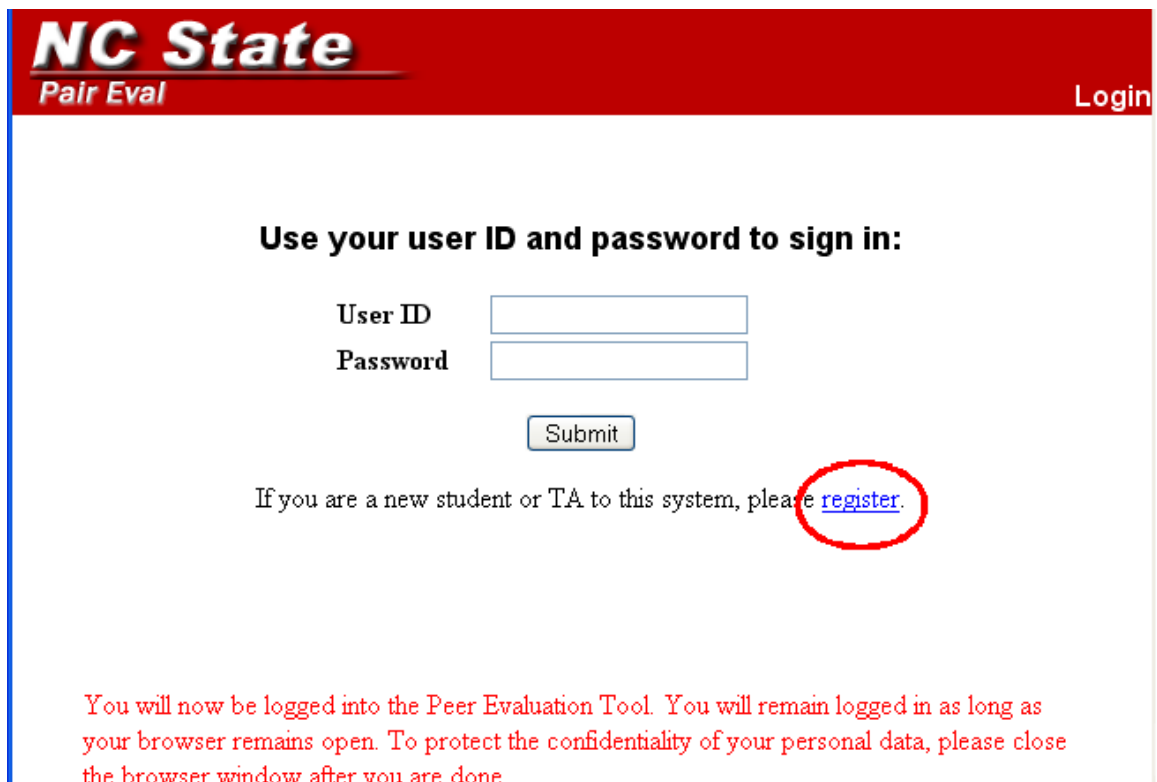
- NOTE: This will create a new user in the system. Therefore, you cannot use this page to make changes to an existing user's Administrator or Instructor privileges. Use this option to create the users for course instructors INSTEAD of having them register from the main page.
- NOTE: It is possible to create a user who is both an instructor and an administrator.

## 2. Creating a New User (not an Instructor or Administrator)

*Prerequisites:* None

*Who:* Anyone

2.1. Navigate to the main login page (this is the root page by default) and click the register link.



**NC State**  
Pair Eval Login

**Use your user ID and password to sign in:**

User ID

Password

If you are a new student or TA to this system, please [register](#).

You will now be logged into the Peer Evaluation Tool. You will remain logged in as long as your browser remains open. To protect the confidentiality of your personal data, please close the browser window after you are done.

2.2. Fill out the registration form and click Submit. You will then be automatically forwarded to the main Pair Eval page.

### 3. Creating a New Course

*Prerequisites:* 1. Creating a New Administrator or Instructor.

*Who:* Instructors only

3.1. Login using an Instructor account.

3.2. Click on the link to left labeled 'Manage course info'

3.3. Fill out the information for Course Number and Course Name. Then click 'Add Course'

- NOTE: Course Number should be unique. In Pair Eval, each course can have multiple sections (i.e. one Instructor teaching several classes or having several TAs). However, there is only one Instructor per course. Therefore, if you have multiple *professors* teaching the same course, you should create different course numbers for each professor (e.g. CSC 513a, CSC 513b, etc.)

**NC State**  
*Pair Eval*

Course Management

Select Course:  
▼

Manage course info  
Update Information/  
Change Password  
Login as another user

### Course Management

#### Add a new course

Course Number

Course Name

#### Remove a course

Select Course Number

- 3.4. After you add a course, it should appear in the upper left.
- 3.5. Instructors may also remove courses by selecting the course from the drop-down box and clicking 'Remove Course'.

#### 4. Creating a New Section in a Course

*Prerequisites:* 3. Creating a New Course.

*Who:* Instructors only

4.1. *Each course must have at least one section!*

4.2. Make sure the Active Course box in the upper left is set to the course to which you wish to add sections.

4.3. Log in as an Instructor and navigate to the main Pair Eval page. Select the 'Manage section info' link on the left.

4.4. Type in a Section name and click 'Add Section'

The screenshot shows the 'NC State Pair Eval' interface. On the left, there is a red sidebar with the 'NC State' logo and 'Pair Eval' text. Below the logo is a 'Select Course:' dropdown menu with 'CSC 513' selected. A list of management options is provided: 'Manage course info', 'Manage section info', 'Manage assignment', 'Grouping', 'Assign TA', 'View Students', 'Query Students', and 'Peer Eval Report'. At the bottom of the sidebar are 'Update Information/Change Password' and 'Login as another user'. The main content area is titled 'Section Management for CSC 513' and includes an 'Add a new section' section with a 'Section Name' input field containing '001' and an 'Add Section' button circled in red. Below this is a 'Sections Info' section with a table header showing 'Section Name' and 'Number of Students'.

- 4.5. After adding a section, may view a listing of the students in that section by clicking the corresponding 'View Students' button.
- 4.6. Instructors may also remove sections by clicking the corresponding 'Remove' button.

Select Course:

CSC 513

- Manage course info
- Manage section info
- Manage assignment
- Grouping
- Assign TA
- View Students
- Query Students
- Peer Eval Report

- Update Information/
- Change Password
- Login as another user

### Section Management for CSC 513

#### Add a new section

Section Name



#### Sections Info

Section Name	Number of Students		
001	3	<input type="button" value="View Students"/>	<input type="button" value="Remove"/>

## 5. Creating a New Assignment

*Prerequisites:* 4. Creating a New Section.

*Who:* Instructors only

- 5.1. Make sure the Active Course box in the upper left is set to the course to which you wish to add assignments.
- 5.2. For student evaluations to take place, assignments must be defined in the system. To create assignments, click on the 'Manage assignment' link on the left.
- 5.3. Fill out the necessary information to create an assignment. Click 'Submit' when finished.
  - Assignment Number – The identifier for the assignment.
  - Start Date – Click on the calendar icon . This will open a calendar from which you can select a date. This is the first day in which students can submit a peer evaluation for the assignment.
  - End Date – Click on the calendar icon  and select the end date from the calendar. The End Date is the last day in which students can submit a peer evaluation for the assignment.
  - Number of Groups – The number of groups in the *entire course* that will be working on the assignment. If your course has multiple sections, you will need to sum the number of groups from each section.
  - Number of Reviews – The number of times each student will fill out a partner evaluation form, e.g. if you want the students to evaluate each other twice during the assignment, enter '2'.

Select Course:

CSC 513

- Manage course info
- Manage section info
- Manage assignment
- Grouping
- Assign TA
- View Students
- Query Students
- Peer Eval Report

- Update Information/
- Change Password
- Login as another user

## Manage Assignments for CSC 513

### Add new assignment

Assignment Number

Start Date

End Date

Number of Groups  (An integer from 1 to 999)

Number of Reviews  (An integer from 1 to 999)

### Assignments

Number	Start Date	End Date	# of Groups	# of Reviews		
--------	------------	----------	-------------	--------------	--	--

- 5.4. Instructors may also make changes to assignments at the bottom of the page by entering the new information in the corresponding boxes and clicking the 'Save' button.
- 5.5. Instructors can also remove assignments using the 'Remove' button next to the corresponding assignment.

Select Course:

CSC 513

- Manage course info
- Manage section info
- Manage assignment
- Grouping
- Assign TA
- View Students
- Query Students
- Peer Eval Report

- Update Information/
- Change Password
- Login as another user

## Manage Assignments for CSC 513

### Add new assignment

Assignment Number

Start Date

End Date

Number of Groups  (An integer from 1 to 999)

Number of Reviews  (An integer from 1 to 999)

### Assignments

Number	Start Date	End Date	# of Groups	# of Reviews		
1	<input type="text" value="04/27/2005"/>	<input type="text" value="05/06/2005"/>	<input type="text" value="13"/>	<input type="text" value="2"/>	<input type="button" value="Save"/>	<input type="button" value="Delete"/>

## 6. Assigning Groups for Evaluation

*Prerequisites:* 5. Creating a New Assignment

*Who:* Instructors or TAs

**NC State**  
*Pair Eval* Grouping

Select Course:  
CSC 513

Manage course info  
Manage section info  
Manage assignment  
Grouping  
Assign TA  
View Students  
Query Students  
Peer Eval Report

Update Information/  
Change Password  
Login as another user

### Grouping for CSC 513

Assignment: 1 Section: 001

Group: 2

Members	Non-Members
Claude Shannon	John Smith Richard James

Navigation arrows: ← (from Non-Members to Members), → (from Members to Non-Members)

6.1. Make sure the Active Course box in the upper left is set to the course for which you wish to assign groups.

- 6.2. Select the Assignment and Section which you are creating groups for.
  - NOTE: Group numbers span all sections in a course. If you have multiple sections, you should assign specific group numbers to each section. For example, Section 001 gets Groups 1-3, Section 002 gets Groups 4-6, etc.
- 6.3. Select the group number to which you wish to assign students.
- 6.4. Students currently assigned to that group (if any) will appear in the list on the left. Ungrouped students in the selected *section* will appear in the list on the right.
  - NOTE: If a student already in the group has selected that they *do not wish to work with* another student, that student *will not* appear in the “Non-Members” list. For example, if Claude Shannon did not wish to work with John Smith, John Smith would not appear in the above figure even though he is ungrouped.
- 6.5. Click the arrow icons to move students between being grouped and ungrouped. Changes are made in real-time and there is no separate button to save changes.

## 7. Assigning a TA

*Prerequisites:* 4. Creating a New Section in a Course

*Who:* Instructors only.

- 7.1. Make sure the Active Course box in the upper left is set to the course to which you wish to assign TAs.
- 7.2. Select the ‘Assign a TA’ link on the left.
- 7.3. Enter the TAs’ user ids into the boxes next to the appropriate Section numbers and click ‘Submit’ when finished.
- 7.4. The users assigned as TAs will now have the ability to assign students to groups and view students’ peer evaluations.

The screenshot shows the 'NC State Pair Eval' interface. On the left is a red sidebar with navigation links. The main content area is titled 'Assign TA for CSC 513' and contains a table with two columns: 'Section' and 'TA's User ID'. The first row shows '001' in the 'Section' column and 'msherriff' in the 'TA's User ID' column. A 'Submit' button is located below the table.

**NC State**  
Pair Eval

Select Course:  
CSC 513

Manage course info  
Manage section info  
Manage assignment  
Grouping  
Assign TA  
View Students  
Query Students  
Peer Eval Report

Update Information/  
Change Password  
Login as another user

### Assign TA for CSC 513

Section	TA's User ID
001	msherriff

Submit

## 8. Viewing Students in a Course and Section

*Prerequisites:* None

*Who:* Instructors and TAs

- 8.1. Make sure the Active Course box in the upper left is set to the course for which you want to view student listings.
- 8.2. Click on the 'View Students' link on the left.
- 8.3. Select the Section whose students you wish to view and then click 'Go!'
- 8.4. You will receive a list of student ids, names, and e-mails for all the students in that section.
- 8.5. If you wish to remove a student from a section, click the 'Remove' button next to their name.

**NC State**  
Pair Eval

Select Course:  
CSC 513

- Manage course info
- Manage section info
- Manage assignment
- Grouping
- Assign TA
- View Students
- Query Students
- Peer Eval Report
- Update Information/
- Change Password
- Login as another user

### View Students

View students for CSC 513 in section 001

ID	Name	E-Mail	
cshannon	Claude Shannon	<a href="mailto:lmlayma2@ncsu.edu">lmlayma2@ncsu.edu</a>	<input type="button" value="Remove"/>
jsmith	John Smith	<a href="mailto:lmlayma2@ncsu.edu">lmlayma2@ncsu.edu</a>	<input type="button" value="Remove"/>
rjames	Richard James	<a href="mailto:lmlayma2@ncsu.edu">lmlayma2@ncsu.edu</a>	<input type="button" value="Remove"/>

## 9. Querying for Students

*Prerequisites:* None.

*Who:* Instructors and TAs.

9.1. Make sure the Active Course box in the upper left is set to the course for which you want to view student listings.

9.2. Click on the 'Query Students' link on the left.

9.3. Enter last name of the student for which you wish to search and click 'Query'.

- NOTE: The query is not case sensitive. However, it does not search for substrings.

**NC State**  
Pair Eval

Select Course:  
CSC 513

Manage course info  
Manage section info  
Manage assignment Grouping  
Assign TA  
View Students  
Query Students  
Peer Eval Report

Update Information/  
Change Password  
Login as another user

**Student Query**

### Student Detail Query

Please input the student's last name:

Last Name:

Results:

Name	Registered Course	Section	
Claude Shannon	CSC 513	001	<input type="button" value="More"/>

9.4. If you wish to see more information about the student, click the 'More' button.

9.5. The Student Info screen will present the student’s name, email, and the courses and sections they are registered in. If the student is grouped, you can click on the ‘Grouping’ link. This will take you to the Assign Groups page.

## 10. Viewing Students Peer Evaluations

*Prerequisites:* 5. Creating a New Assignment

*Who:* Instructors or TAs

10.1. Make sure the Active Course box in the upper left is set to the course for which you want to view peer evaluations.

10.2. Click on the ‘Peer Eval Report’ link on the left.

10.3. Selection the Assignment, Review #, and Section from the list and click ‘Submit’

- NOTE: Self-evaluations are not enabled at this time.

10.4. Upon clicking Submit, the Peer Evaluation report will pop up in a new browser window.

10.5. Peer evaluations for the students in the selected section will appear.

- The tool will show peer evaluations for all assignments up to the selected assignment's end date.
- Each row in the peer evaluation report corresponds to an evaluator. In the example above, all of the evaluations given by Richard James are shown in one row, while all of the evaluations given by Claude Shannon are shown in another row.
- For each evaluation, the Partner name is shown (clicking the name will provide an e-mail link), the overall rating is given (denoted 'O', from 1-9), and the compatibility rating is shown (Y for Yes, N for No, and Neutral.)
- For evaluations of the selected review, a Comment cell is shown with each evaluation.
- If a student has not performed an evaluation, the corresponding cell will be blank.

### Peer Evaluation Report

#### CSC 513 Section All Assignment 1 Review 2

O = Overall Rating  
Cty = Compatibility

	Assignment 1 #1			Assignment 1 #2			
<a href="#">Richard James</a> 001	Partner	O	Cty	Partner	O	Cty	Comment
	<a href="#">Claude Shannon</a>	9	Y	<a href="#">Claude Shannon</a>	9	Y	
<a href="#">Claude Shannon</a> 001	Partner	O	Cty	Partner	O	Cty	Comment
	<a href="#">Richard James</a>	4	N	<a href="#">Richard James</a>	3	N	I wish he would have worked more.
<a href="#">John Smith</a> 001	Partner	O	Cty	Partner	O	Cty	Comment

## 11. Registering for Courses

*Prerequisites:* 4. Creating a New Section in a Course

*Who:* Students only

11.1. *Students must be registered in a Course and Section before they can be assigned to groups and perform peer evaluations.*

11.2. After logging in, click 'Register Course' on the left.

11.3. Selection the Course and Section number you are in from the drop down boxes and click 'Add'

The screenshot shows the 'Register Course' interface on the NC State website. The page has a red header with 'NC State' on the left and 'Register Course' on the right. Below the header, there is a navigation menu on the left with options: 'Pair Eval', 'Select Course:', 'Myers-Briggs Test', 'Learning Styles', 'Self Evaluation', 'Collaboration Experience', 'Register Course', 'Update Information/', 'Change Password', and 'Login as another user'. The main content area is titled 'Add Course' and contains two dropdown menus: 'Course Number' (set to 'CSC 513 – Compiler Construction') and 'Section' (set to '001'). An 'Add' button is located to the right of the section dropdown. Below this, there is a section titled 'View / Remove Courses' with a table header showing 'Course Number' and 'Section' columns.

11.4. Students may remove courses from their registered list by clicking the 'Remove' button at the bottom.

**NC State**  
Pair Eval Register Course

Select Course:  
CSC 513

Myers-Briggs Test  
Learning Styles  
Self Evaluation  
Collaboration Experience  
Register Course  
Partner Pref  
Peer Evaluation

Update Information/  
Change Password  
Login as another user

### Add Course

Course Number	Section	
CSC 326 – Software Engineering	201	Add

### View / Remove Courses

Couse Number	Section	
CSC 513	001	Remove

## 12. Setting Partner Preferences

*Prerequisites:* 11. Registering for Courses

*Who:* Students only.

12.1. Make sure the Active Course box in the upper left is set to the course for which you want to set partner preferences.

12.2. Click on the 'Partner Pref' link on the left.

12.3. Click the checkboxes next to the names of students who you do not wish to work with, then click 'Save Preferences.'

- NOTE: If a student does not wish to work with another student, Instructors and TAs will not have the option of creating groups with those two students in them.

**NC State**  
Pair Eval Partner Preferences

Select Course:  
CSC 513

Myers-Briggs Test  
Learning Styles  
Self Evaluation  
Collaboration Experience  
Register Course  
Partner Pref  
Peer Evaluation

Update Information/  
Change Password  
Login as another user

### Partner Preferences for CSC 513

Please select the students you wish **NOT** to work with. You may at most select three.

Name	
Claude Shannon	<input checked="" type="checkbox"/>
John Smith	<input type="checkbox"/>

Save Preferences

### **13. Performing Peer Evaluations**

*Prerequisites:* 11. Registering for Courses and 6. Assigning Groups for Evaluation

*Who:* Students only.

- 13.1. Make sure the Active Course box in the upper left is set to the course for which you want to perform peer evaluations.
- 13.2. Click on the 'Peer Evaluation' link on the left.
- 13.3. Follow the on-screen instructions and click 'Submit' when finished.

Select Course:

CSC 513

Myers-Briggs Test  
Learning Styles  
Self Evaluation  
Collaboration Experience  
Register Course  
Partner Pref  
Peer Evaluation

Update Information/  
Change Password  
Login as another user

### Team Member Evaluation

The following evaluation of your team members is a tool to help improve your experience with group work.

**The evaluation is to be filled only once for each team member (including yourself) in each assignment.** After you submit the form, you may only read it, but not re-submit it. Its purpose is to determine those who have been active and cooperative members as well as to performance by using the guidelines given below. **These questions are to guide you in rating your peers. The instructor will NOT see your answers to these questions. The instructor only sees the overall rating.**

Select your assignment number: 1(04/27 - 05/06)

Select the evaluation number: 1

Select your partner be evaluated: Claude Shannon

Has the student attended your group meetings?	never
Has the student notified a teammate if he/she would not be able to attend a meeting or fulfill a responsibility?	never
Has the student made a serious effort at assigned work before the group meetings?	never
Does the student attempt to make contributions in group meetings when he/she can?	never
Does the student cooperate with the group effort?	never
Assess the technical competency of your partner relative to yourself.	Better than me
Assess how compatible you and your partner were	Very Compatible

### Overall rating

- Excellent Consistently went above and beyond -- tutored teammates, carried more than his/her fair share of the load.
- Very Good Consistently did what he/she was supposed to do, very well prepared and cooperative.
- Satisfactory Usually did what he/she was supposed to do, acceptable prepared and cooperative.
- Ordinary Often did what he/she was supposed to do, minimally prepared and cooperative.
- Marginal Sometimes failed to show up or complete assignments, rarely prepared.
- Deficient Often failed to show up or complete assignments, rarely prepared.
- Unsatisfactory Consistently failed to show up or complete assignments, unprepared.
- Superficial Practically no participation.
- No show No participation at all.

Comments: no more than 255 characters.

Before you hit the submit button, please make sure that all questions are answered.

Submit

## **14. Optional Surveys**

*Prerequisites:* None

*Who:* Students only.

14.1. The optional surveys are located on the left. Students do not have to be registered in courses to take these surveys.

- NOTE: These surveys were implemented for N.C. State research purposes. Currently, the only way to obtain the results from these surveys is by directly accessing the database.

14.2. Click on the corresponding link and follow the onscreen instructions to take the survey.

14.2.1. Myers-Briggs Test – A classic test designed to evaluate personality on four dimensions.

14.2.2. Learning Styles – A classic test designed to evaluate students' learning styles across four dimensions.

14.2.3. Self Evaluation – A survey of students' self-perceptions regarding coding, the computer science curriculum, experience, and other topics.

14.2.4. Collaboration Experiences – A survey of students' opinions on working with others.

## 15. Changing Passwords/Updating Personal Information

15.1. *Prerequisites:* None.

15.2. *Who:* Any user.

15.3. Click on the 'Update Information/Change Password' link on the left.

15.4. To change personal information, edit the information at the top of the page and click 'Update'.

15.5. To change your password, fill out the information at the bottom of the page and click 'Change Password.'

**NC State**  
Pair Eval

Select Course:  
CSC 513

Myers-Briggs Test  
Learning Styles  
Self Evaluation  
Collaboration Experience  
Register Course  
Partner Pref  
Peer Evaluation

Update Information/  
Change Password  
Login as another user

**Update Information**

User ID: rjames

Last Name: James

First Name: Richard

Email Address: lmlayma2@ncsu.edu

Update

**Change Password**

Original Password:

New Password:

Retype New Password:

Change Password

## ***Customizing PairEval's Look***

If you wish to change PairEval's default color scheme, simply modify `paireval.css` in the root web directory to suit your preferences. Also, if you wish to change the PairEval logo that appears at the top of the pages, replace the `/images/maintitle.png` file with your own custom logo.

(The image file is referenced from `/WEB-INF/components/Border.html`)

## ***Development notes***

- PairEval was developed using Eclipse. The project can be imported directly into the Eclipse workspace using Import commands on the root directory.
- PairEval uses the Jakarta Tapestry web application development toolkit (see <http://jakarta.apache.org/tapestry/> for more information). The tapestry libraries are included in the .zip file.
- We have used the Spindle plug-in for use with Tapestry to edit the project in Eclipse. This must be downloaded separately (but is not required).

## ***Troubleshooting/Questions/Comments***

If you have any questions about using the Pair Eval system, please contact Lucas Layman at [lmayma2@ncsu.edu](mailto:lmayma2@ncsu.edu).

## ***Author Information***

PairEval was originally created by Dright Ho ([dright@acm.org](mailto:dright@acm.org)). It is currently maintained by Lucas Layman ([lmayma2@ncsu.edu](mailto:lmayma2@ncsu.edu)).

## ***Legal Notice***

The Pair Eval system is © North Carolina State University 2004-2007. It may be distributed freely for use in an academic setting. Academic users should feel free to alter this program as they see fit. No part of this program may be used, in any fashion, in a retail or commercial application. For legal inquires, please contact the N.C. State Department of Computer Science.

## ***Website***

Pair Eval is updated and maintained at <http://agile.csc.ncsu.edu/paireval/>