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For more information on Expertiza, see <http://research.csc.ncsu.edu/efg/expertiza>

Expertiza: Management and Peer Review of Student Team Projects

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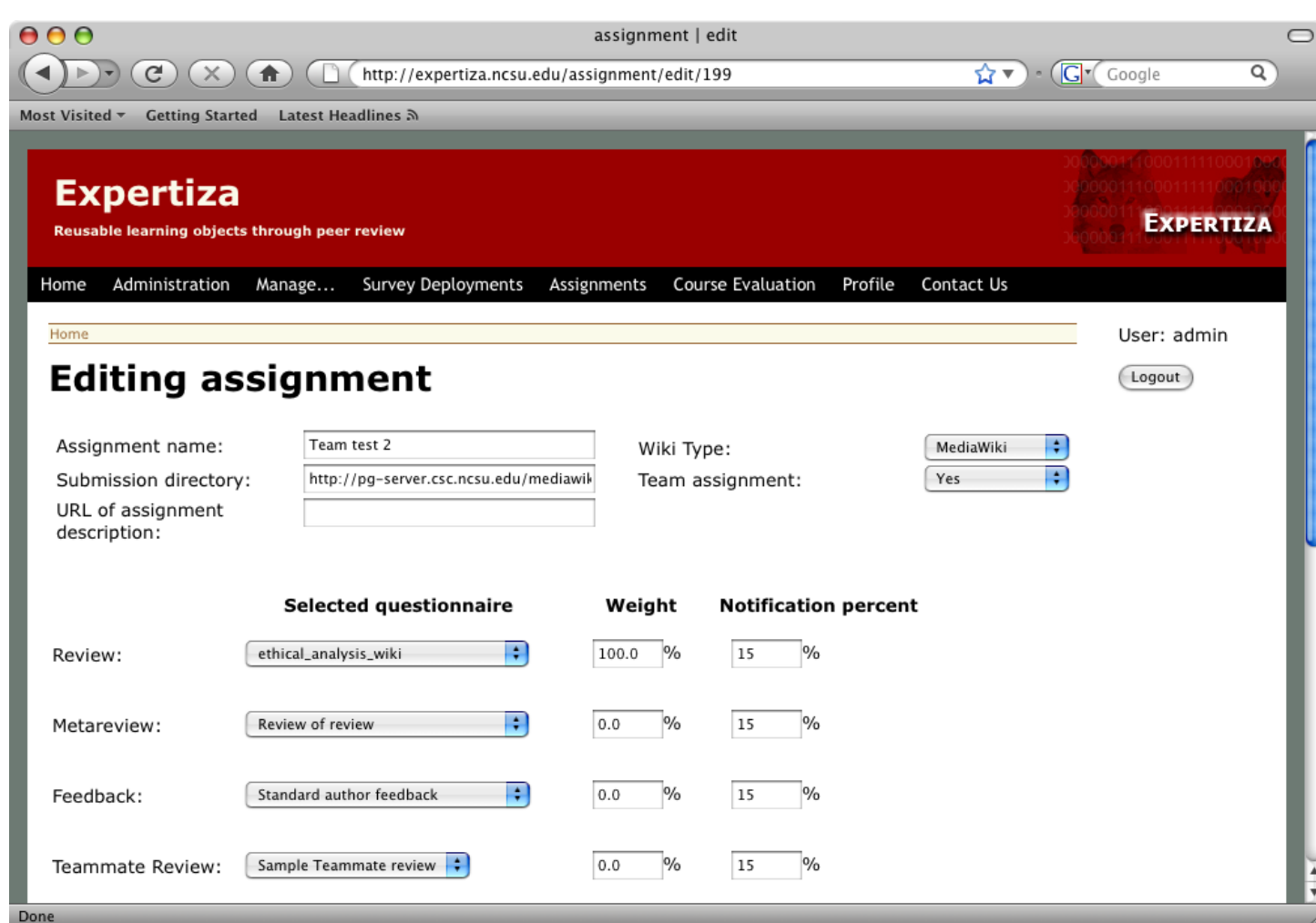
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The Goal

- Team projects, authentically assessed, to contribute to the learning environment.
 - Team projects build important interpersonal skills.
 - Team projects are harder to assess.
 - Projects take different directions, result in incomparable results.
 - Members need to pull their own weight; “social loafing” must be discouraged.
 - Ideally, projects should contribute to the learning environment.
 - Students create exam questions, textbook exercises, active-learning exercises, or even a student-authored textbook.
- The solution: **Peer review.**
 - A scalable solution: Each student reviews a few peers’ work.
 - After getting feedback, authors can correspond with reviewers, then resubmit.
 - Team members’ contributions are also peer-reviewed.
 - Instructor has access to all this data to assign a grade.
- Let’s walk through the process ...

Setting up an Assignment

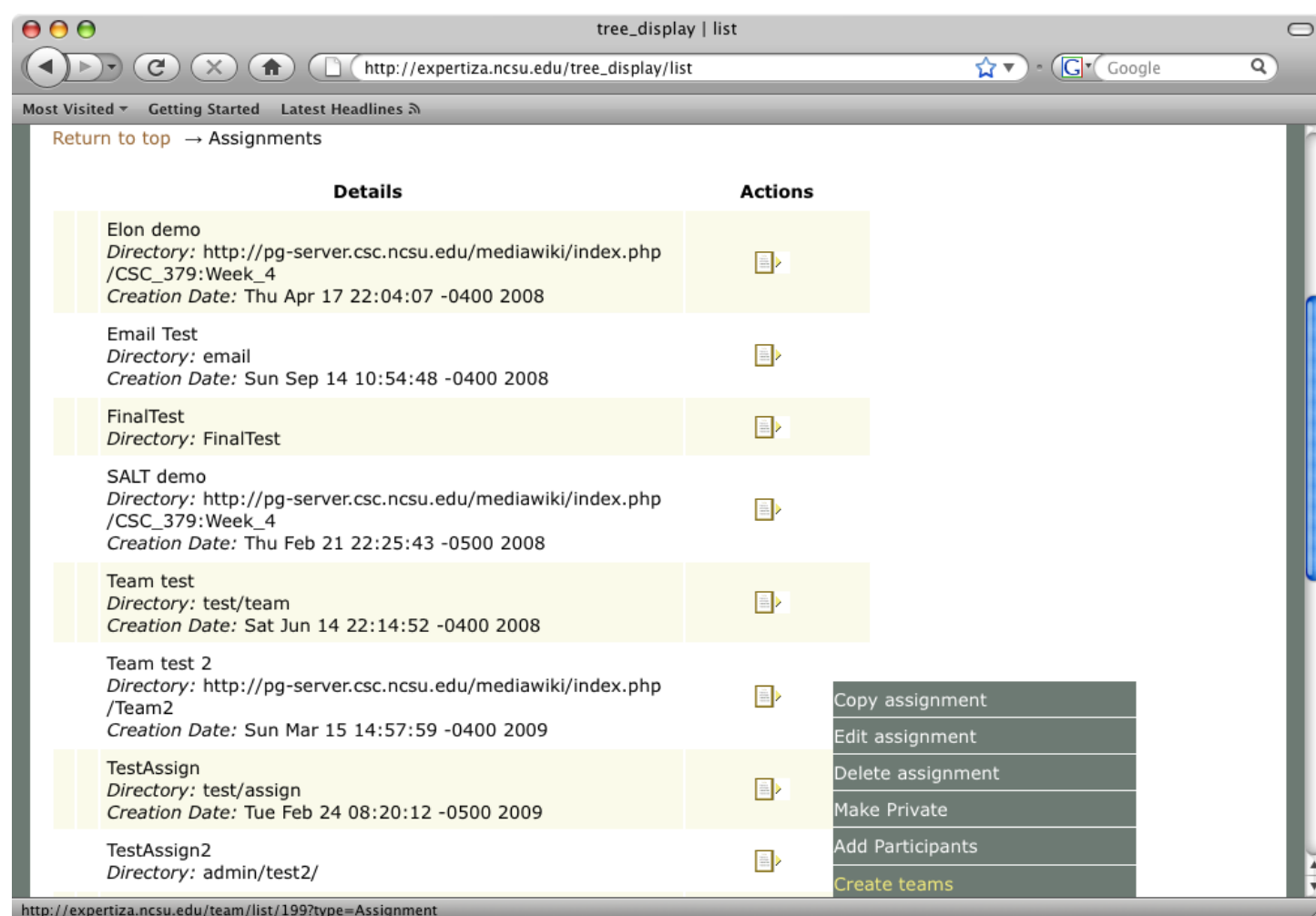
- The instructor selects what weight to give to each of the various kinds of reviews.



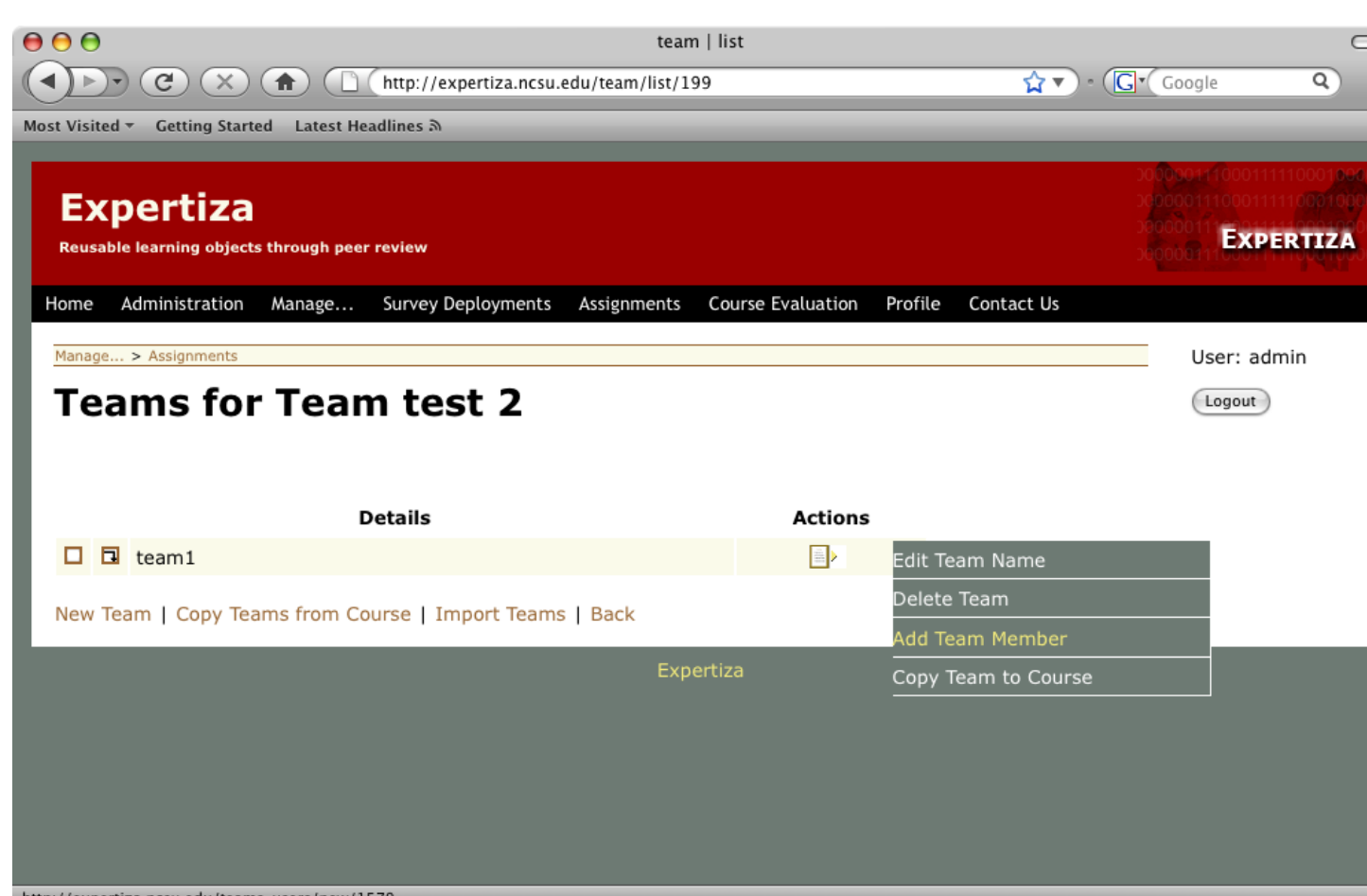
- Teams can be formed in three ways.
 - By instructor, from the user interface
 - By instructor, by importing a file
 - By students, by issuing invitations

Approach A. Instructor Forms Teams

- Instructor selects “Create teams” for the chosen assignment.

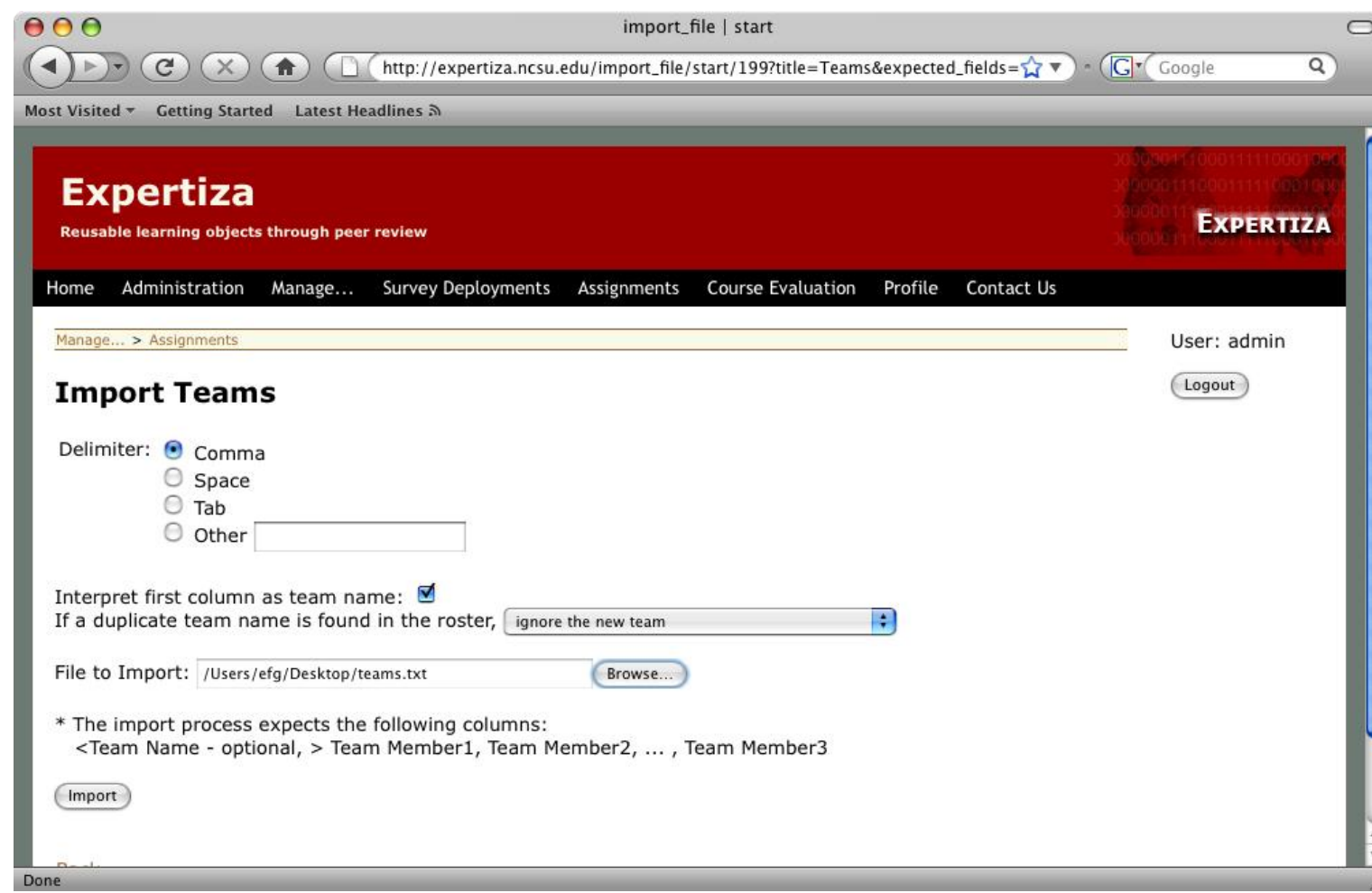


- The newly created team shows up in the list of teams for the assignment.

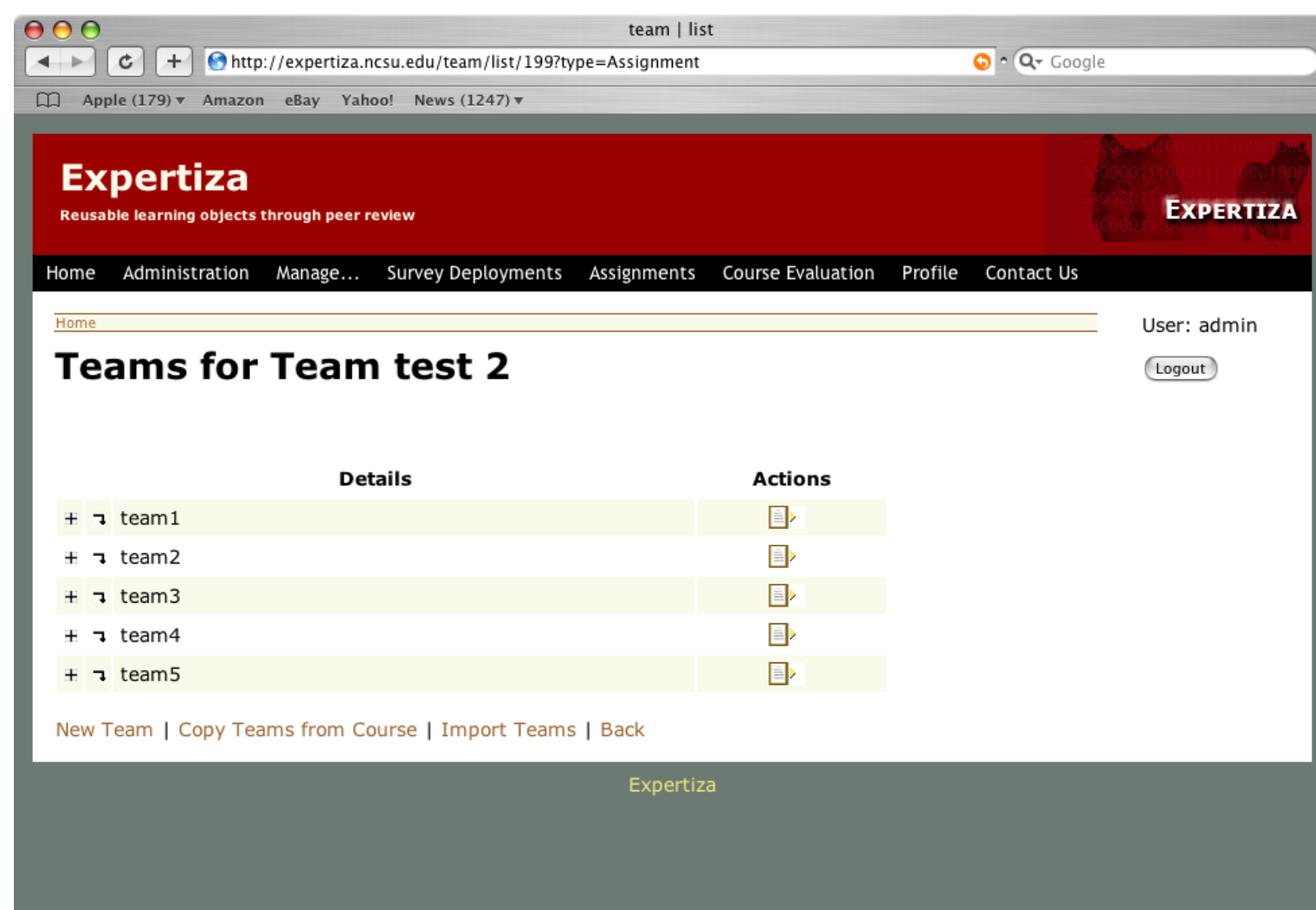


Approach B: Instructor Imports Teams

- A file is created, with each team on one line, e.g. `team2, unctlt3, unctlt4`
`team3, unctlt5, unctlt6`
`team4, unctlt7, unctlt8`
`team5, unctlt9, unctlt10, unctlt11`
- The instructor selects this file, and imports it.

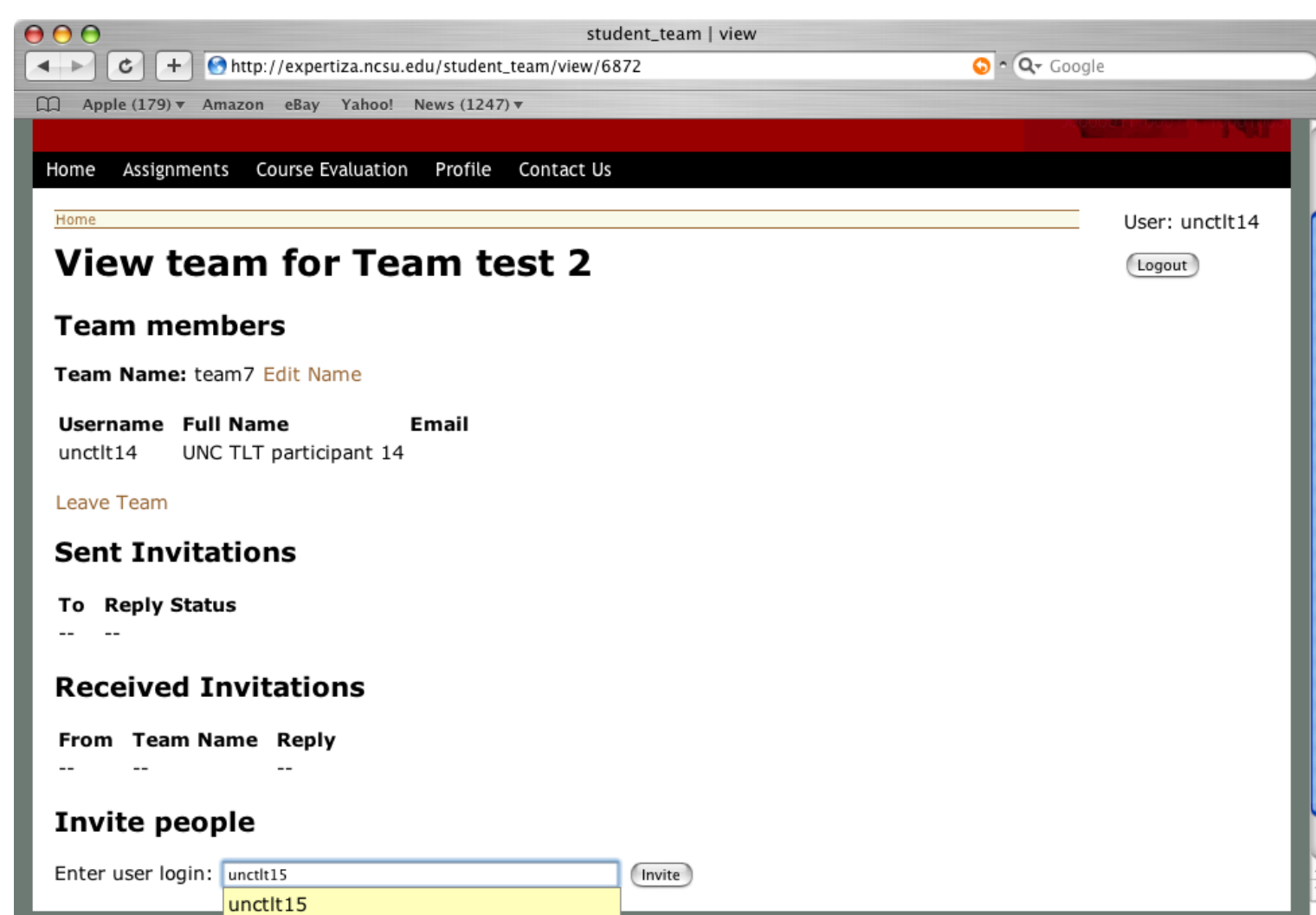


- With the four teams just created, there are five teams overall.

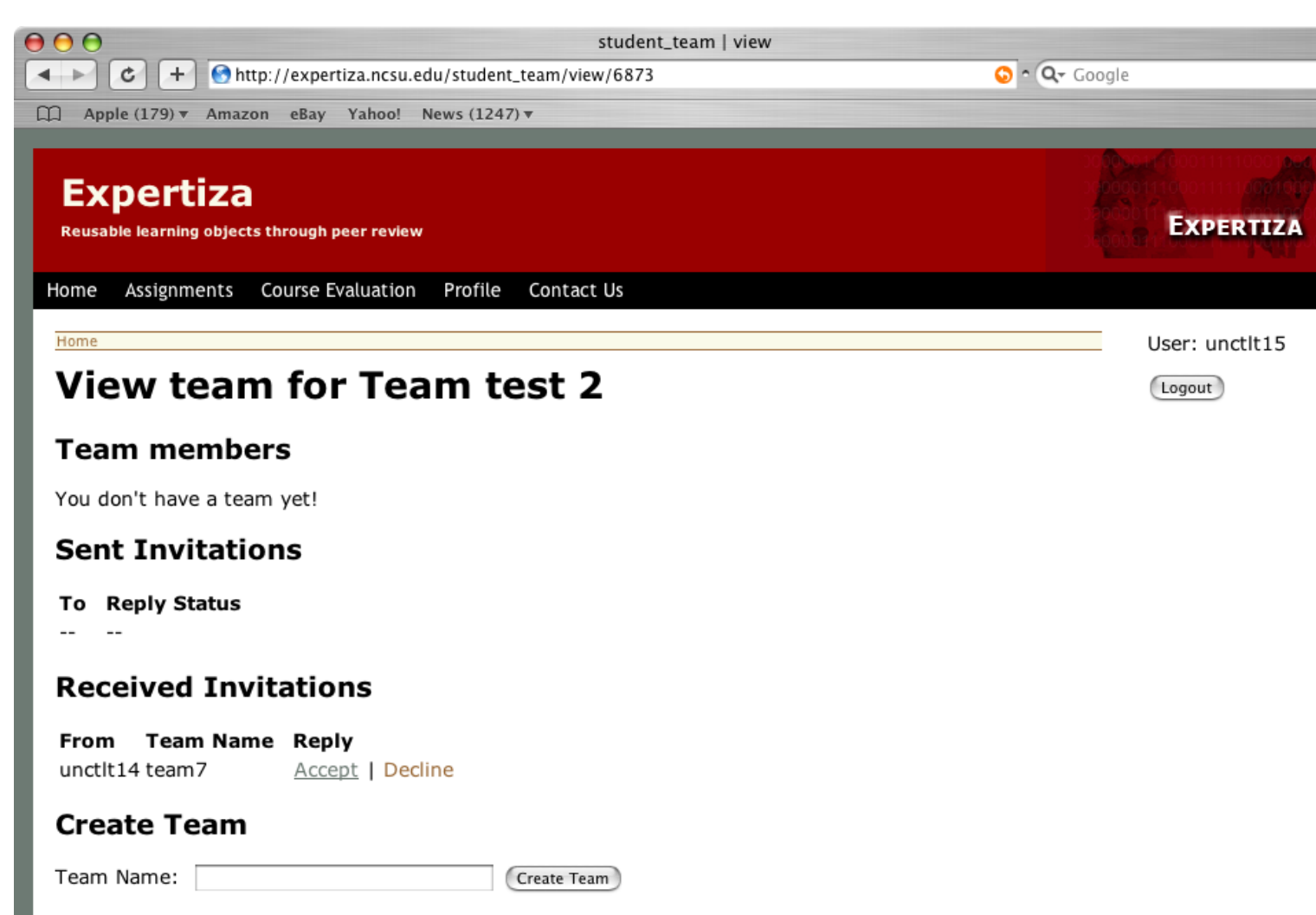


Approach C: Students Create Teams

- A student logs in, goes to the assignment in question, and clicks on “Your team.”
- Then this screen appears.

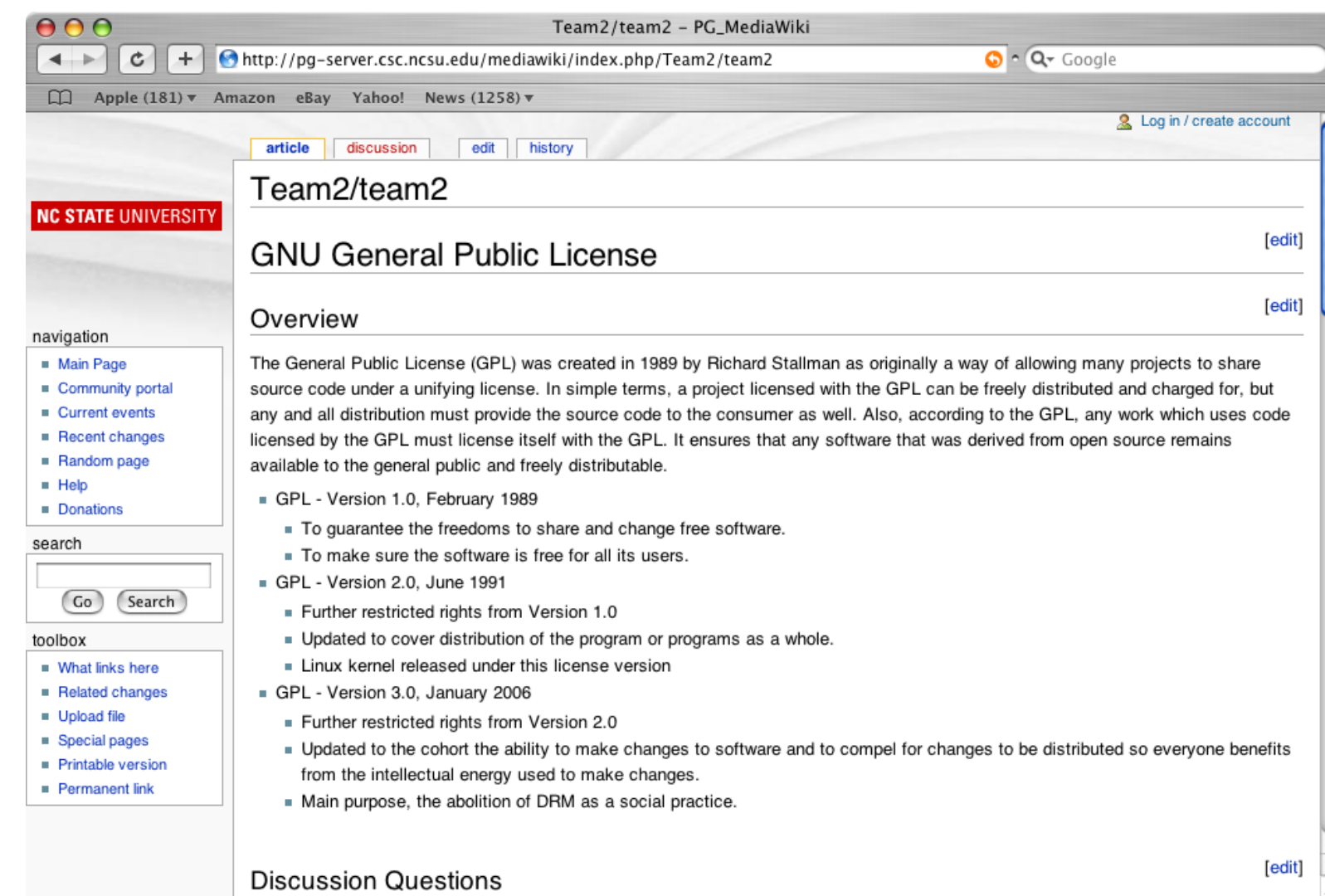


- This student has just invited unctlt15 to join his team.
- The other student (unctlt15) later logs in, and can choose to accept or decline the invitation:



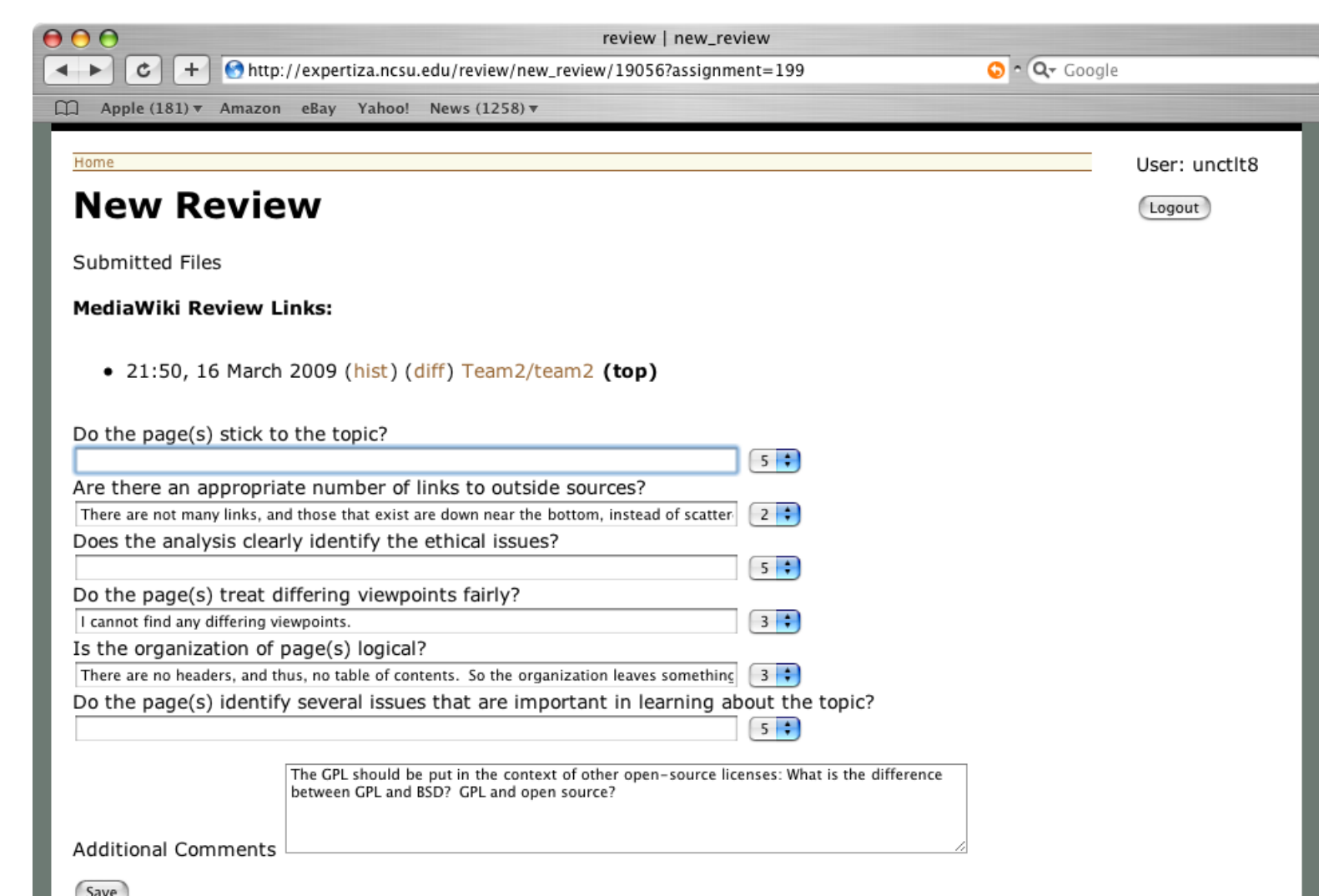
Submitting via a Wiki

- Since this is a wiki assignment, students submit their work by leaving it on a wiki page that they have edited.
- The system “finds” it and presents it to their reviewers.

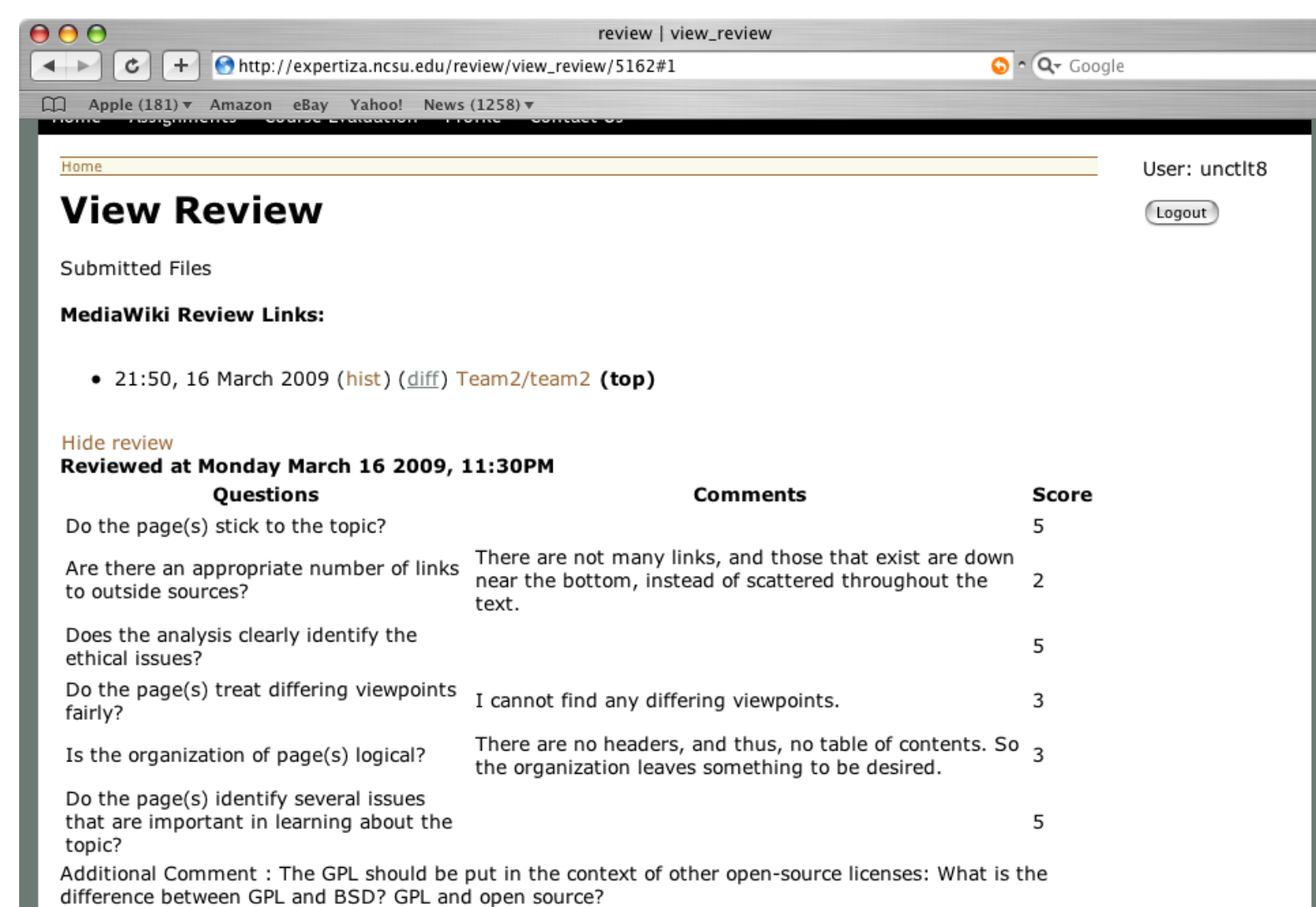


Reviewing a Submission

- Individuals review team submissions.
 - For each question, they enter a score betw. 1 and 5.
 - They can also enter a text comment for each question.

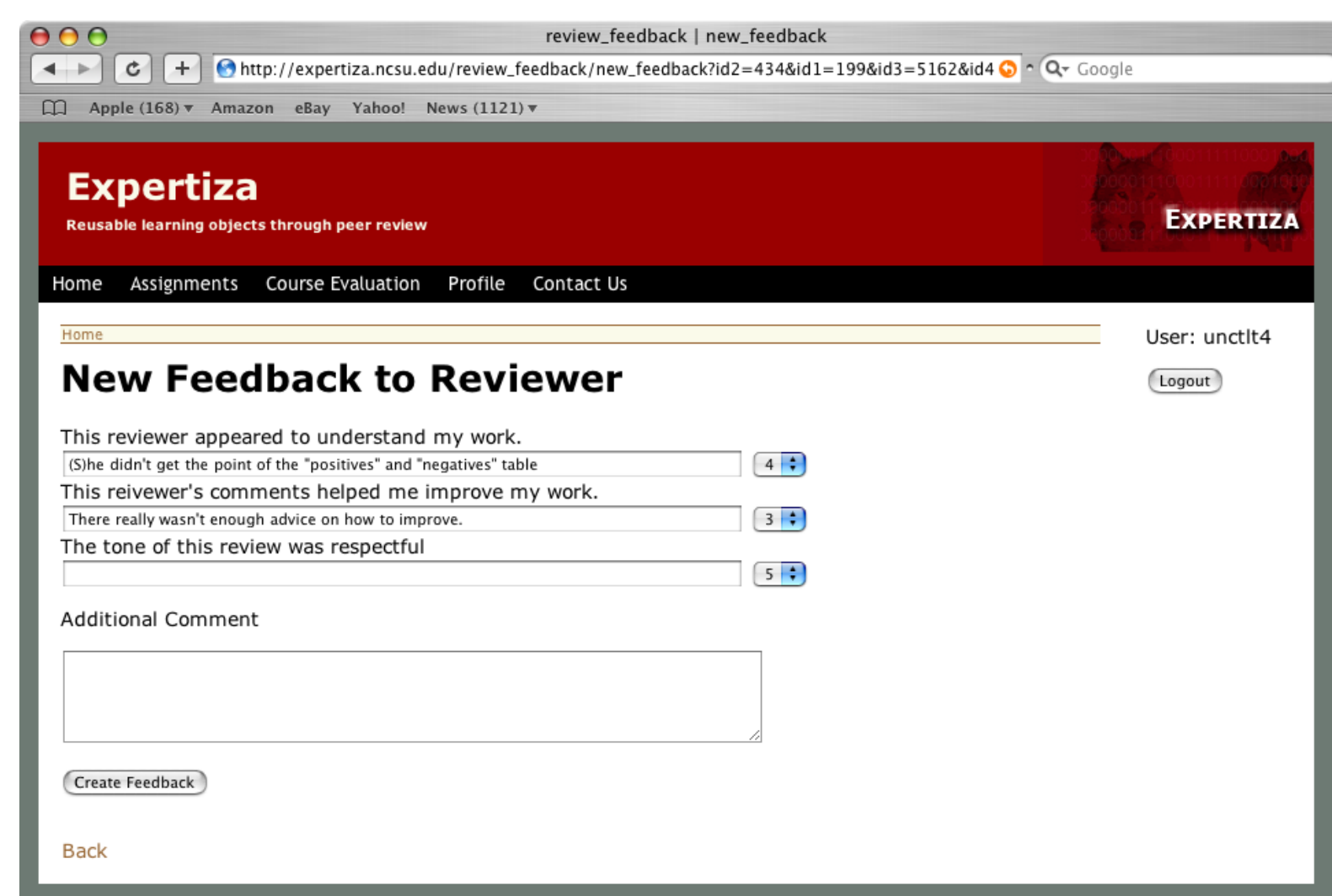


- Once saved, the review can be viewed by either reviewer, author, or instructor.



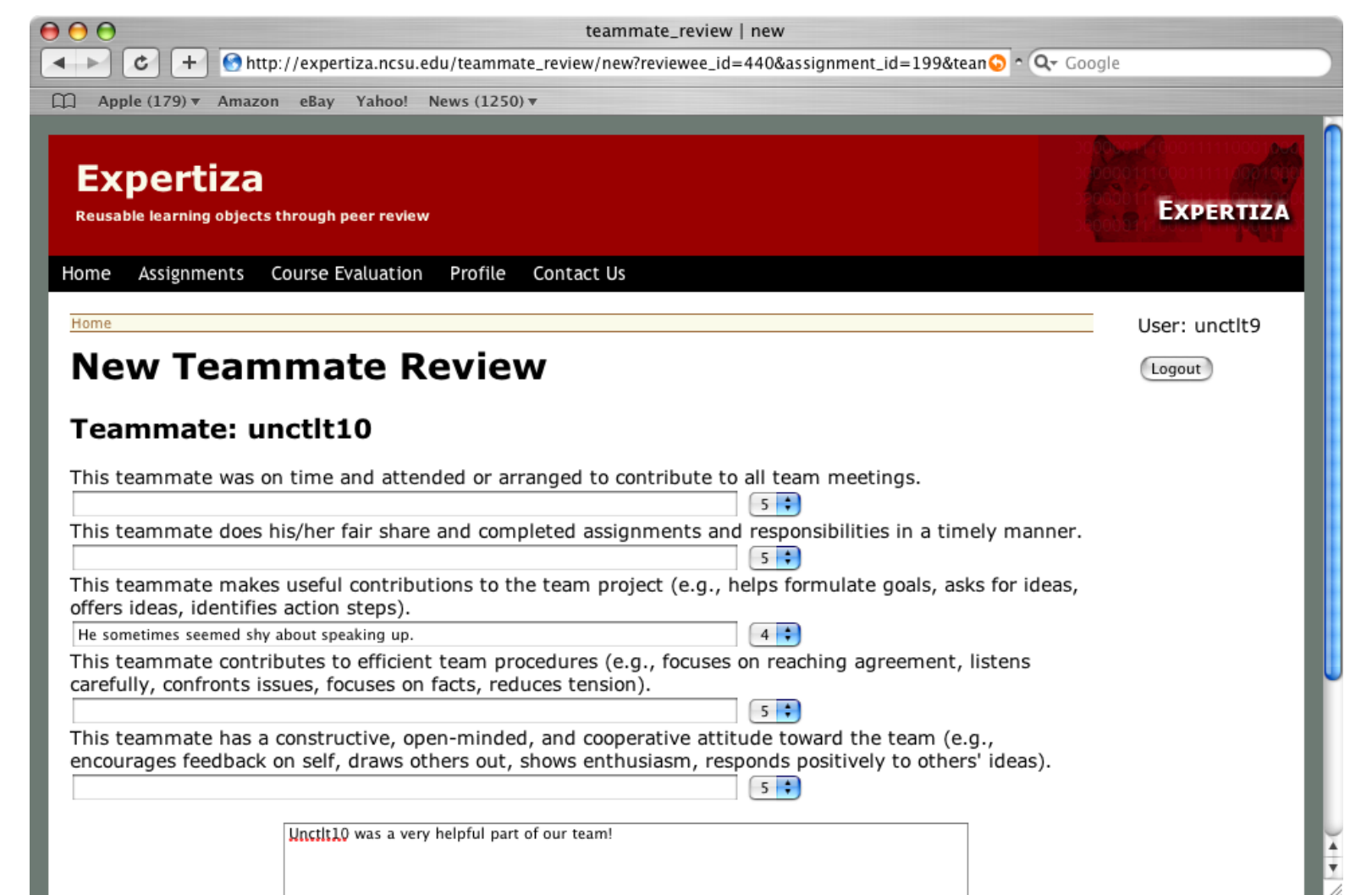
Author → Reviewer Feedback

- The author can give feedback to reviewers.
 - This uses a rubric similar to the review rubric.
 - Helps insure careful reviews.



Teammate Review

- To assign scores fairly and stop “social loafing,” team members evaluate their teammates.
- The review rubric can be customized by the instructor to ask about any desired characteristic of teamwork.



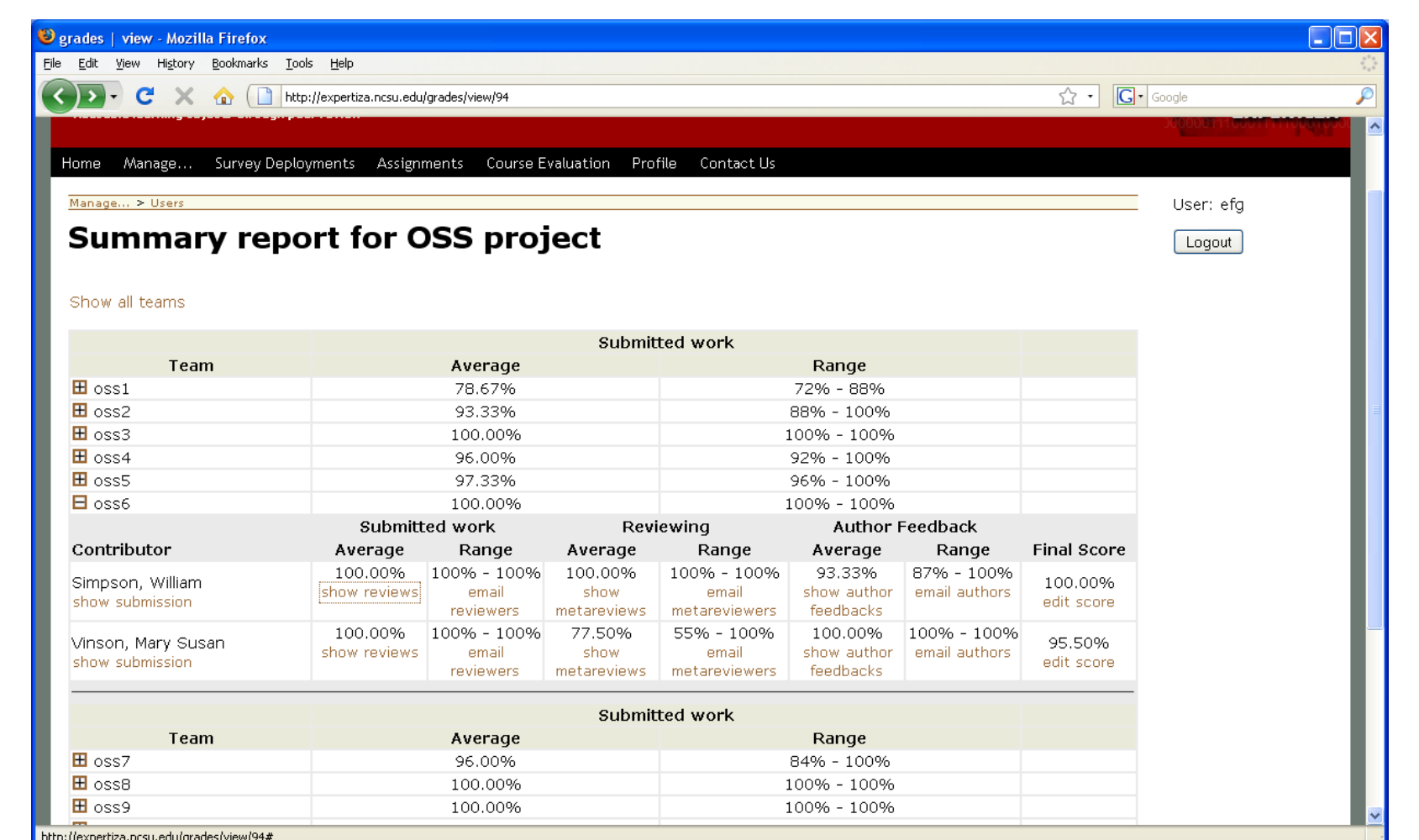
Summary of Feedback in Expertiza

- Reviews of submitted work
- Feedback to author
- Teammate reviews
- Metareviews (x reviews y’s review of z)
- Surveys

All but surveys can influence the final grade.

Instructor Report

- All of the assessment data is displayed to the instructor in a convenient tableau.
- The instructor has the option to—
 - view any individual review before making a decision,
 - accept the score calculated from student reviews, or
 - override the score, optionally providing a reason to the student.



Expertiza makes authentic assessment practical!

Project Status

- Has been used by 21 instructors at 13 universities.
 - NC State
 - UNC-Charlotte
 - U. of Virginia
 - Georgia Southern
 - UNC-Wilmington
 - U. California-Berkeley
 - Davenport Univ.
 - Univ. at Buffalo.
 - Erasmus University (Netherlands)
- Several high-school teachers seriously interested.
- Over 400 instructors and instructional support staff following the project.
- If you’d like to join the list, please sign below!

App: expertiza.ncsu.edu
Web site: research.csc.ncsu.edu/efg/expertiza