Interactive Example and Testing System
Mark Bookout
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On this flyer, you will find
- Background information about the IETS
- Information to help you determine if you are eligible to use the IETS
- Information regarding the availability and cost of the system
- An overview of the IETS's capabilities (see page 2)

Background Information
The IETS is an implementation of a system addressing a need which the BrainTrax team identified in 1999:

A testing system suitable for mathematical information.

Since that time, several products have been introduced into the market; however the BrainTrax IETS provides a few useful features that its competition does not.

Use of the IETS is based on a few fundamental premises:
- The entire system should be deliverable via a web browser.
- A student will be sponsored by a teacher.
- A test will be either for credit or not; in this second case it will be an example.
- A test will either provide explanations for a wrong answer, or not.
- A test will support multiple part questions, and when one of these is presented:
  - Correct answers will be shown to the student after completing each part.
- A student should receive instant feedback after the test is over.
- A teacher should not have to sweat bullets to create a test.

We believe that the system described here meets all of these requirements. Additionally, we are hopeful that future development will make it easier for you to use the system. These will include:
- Ability for teachers to share tests.
- Ability to create tests from a list of questions.
- Ability to "pick n of m" questions for any given test instance.

It may take us another year to get there, but the IETS as it stands today is a robust platform on which to provide these extensions.

Test generation using the IETS will be taught at the summer workshops sponsored by the BrainTrax team. See http://braintrax.umr.edu/workshops for more information.

Eligibility
Any Missouri primary or secondary school instructor may use the BrainTrax IETS, so long as it is used in a non-commercial application. Application of the IETS is intended to be primarily for academic use by teachers and their students. Other restrictions may apply.

Availability
The BrainTrax IETS will be available for limited use in August, 2001. Teachers wishing to apply this system in their instruction activities are encouraged to apply for an IETS User ID as soon as possible.

Cost
Approved teachers may use the IETS system at no cost to them, their schools, or their students, so long as it is used in a non-commercial manner for instruction.1

1 This offer is subject to continued UMR support of the BrainTrax system, its principles and activities.
BrainTrax IETS General Information (High Speed Executive Overview)

In the BrainTrax online testing system, called the Interactive Example and Testing System (IETS), there are two primary types of entities:

- Users
- Tests.

Users consist of two groups:
- Sponsors
- Students

**USERS**

A sponsor creates tests, and then "owns" them.

A sponsor can share tests with other sponsors if they wish. (not currently implemented).

A sponsor assigns student id/passwords for her students, and then makes her tests available to them.

Sponsors receive their userid/password from UMR's BrainTrax office after applying to use the system.

A student is associated with a sponsor (generally a teacher).

**TESTS**

Tests consist of a defined structure for delivery of multiple-choice tests.

A Test has
- One or more questions having
  - One or more parts, each having
    - One or more answers, each having
      - An (optional) associated explanation

Each component (question, part, answer, explanation) can also have an associated image (jpeg, or gif)

*Note:* Mathematical equations are generally presented with images instead of characters.

Tests are also associated with a Sponsor (generally a teacher).

Partial credit may be offered for any "incorrect" answer.

Explanations may be shown, or not, at the sponsors' will.

Explanations are either shown, or not shown, for an entire test.

Tests are graded by the system, and results are stored in the database.

Test results may optionally be emailed to the sponsor (not currently implemented).

A test may have a time limit defined by the sponsor.

A test may be turned into an interactive example at any time.

An interactive example is a "not for credit" test.

Tests are ALWAYS taken through a web browser.