

What is it?

A client-server system, implemented in Java, that provides a web-hosted environment for the collection and management of student submissions, and automated grading of student programming assignments.

How much does it cost?

Free for educational use.

Where can I get it?

www.cs.vt.edu/curator/

History

The latest in a line of automated grading systems going back over 30 years, direct ancestors and the current system have been in use since 1997, collecting over 250,000 submissions from over 10,000 students in courses ranging from introductory programming to artificial intelligence.

The Curator System is open-source and distributed under a slightly modified GPL. The only requirements are that you maintain security of the source code and share modifications and fixes.

Contact Information

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Key Features for Students

- Web-based interface for student access
- Personalized home page for each student
- Easy submission and collection of student work
- Automated grading of student programs, with feedback
- Easy collection of multiple-choice responses
- Secure login authentication



Student Login



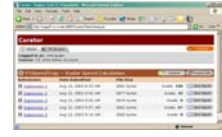
Student Home Page



Submission Page



Quiz Form



Submissions View



Score Report

Key Features for Account Administration

- Web-based application client for full remote administration
- Secure password authentication of student transactions
- Ability to pass external LDAP authentication server, or use internal PID/password database
- Multiple user-level categories
- Full course administration
- Limited access for teaching assistants
- Management of student submissions
- Web-hosted viewing and downloading
- Flexible dates and cut-off dates for assignments
- Rescinding of individual submissions
- Automated submission of student programs to MOSS
- Duration of automated grading of student programs
- Total points, late penalty, early bonus, etc.
- Internal scheme based on evaluation of output
- Use of any compiler/interpreter with a command-line interface (C/C++, Java, Scheme, Prolog, etc.)
- External, user-supplied grading scripts
- Compilation/testing with instructor test harness
- Transparent collection of source, zip and jar files
- Collection of multiple-choice responses
- Provides virtual opscon with any number of questions
- Saves student responses to file
- Automated grading of student responses with free external tool
- Generation of individual score reports for students
- Easy announcements
- Hosted to student's Curator home page
- Optionally includes individual attachment for student



Admin Login



Main Panel



Account Panel



Adding a Quiz



Student Management



Adding an Assignment



TA Access



Auto-Grading Settings



System Administration

- Web-based application client for full remote administration
- Creation/deletion of course accounts
- Management of course administrators

Server-side System Requirements

- Windows 2000/XP, Linux
- Java SDK 1.4.x
- Tomcat 4.x or later
- < 10 MB for full Curator System installation

Course Administration Requirements

- Java Runtime Environment 1.4.x
- forms-capable web browser
- Java administration client application

Student-side System Requirements

- forms-capable web browser