

IST 240 is an introductory course to Java programming. It covers Java programming, UML diagramming, and an introduction to Microsoft's .NET platform.

The semester long project for this course was to design a classroom simulator. Below you can see the results of our work. This application gives the ability to assign work ethics to each student as well as factor teacher experience, time of day, type of classroom, and subject difficulty into the simulation. You can create groups via the included interface or load prefabricated data from an XML file.

As the semester advances, you can see the progression of each student and each group via color and icon changes. You also have the ability to click on individual groups or students to get a more detailed representation of where they stand.

Following are screen shots from this application:

**Data Input**

Environment: **Computer Lab** ▼

Time of Day: **Afternoon** ▼

Subject Difficulty: **Medium** ▼

Professor Name:

Professor Age:

Professor Experience:  
**Somewhat experienced** ▼

Professor Gender: **Male** ▼

Student1 Name:

Student1 Age:

Student1 Work Ethic 1-100:

Student2 Name:

Student2 Age:

Student2 Work Ethic 1-100:

Student3 Name:

Student3 Age:

Student3 Work Ethic 1-100:

Student4 Name:

Student4 Age:

Student4 Work Ethic 1-100:

**Submit**

Gerrymander Class Simulation

File Controls




Time of Day: Morning ▾

Classroom Type: Lecture Hall ▾

Week #: 1 ▾

Time Elapsed: 10 Minutes

+
-
X

Information Panel

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Group

Name: Team-4



Team-4 is performing OK.

Student #1: Kris Carlisle


Student #2: Jorge Martinez

Student #3: Michelle Cooke


Student #4: Jess Lee








































**Student**

**Name: Jorge Martinez**

**Age: 21**

**Status: Traditional**

**Work Ethic: 69**

**Individual Learning Level: 44**

**Current Activity: bored**

File Controls



Time of Day: Morning

Classroom Type: Lecture Hall

Week #: 8

Time Elapsed: 8 Minutes

Green X button, Yellow X button, Red X button



Information Panel



File Controls






Time of Day: Morning ▾

Classroom Type: Lecture Hall ▾

Week #: 17 ▾

Time Elapsed: 12 Minutes

Simulation area containing icons for student desks (green background with computer monitors), student avatars (pink thought bubbles), and instructor icons (yellow hand with lightning bolt and blue hand with lightning bolt).

Information Panel

