

Jabulani School Simulation Portal



Mentor: Ana Paula Chaves Steinmacher

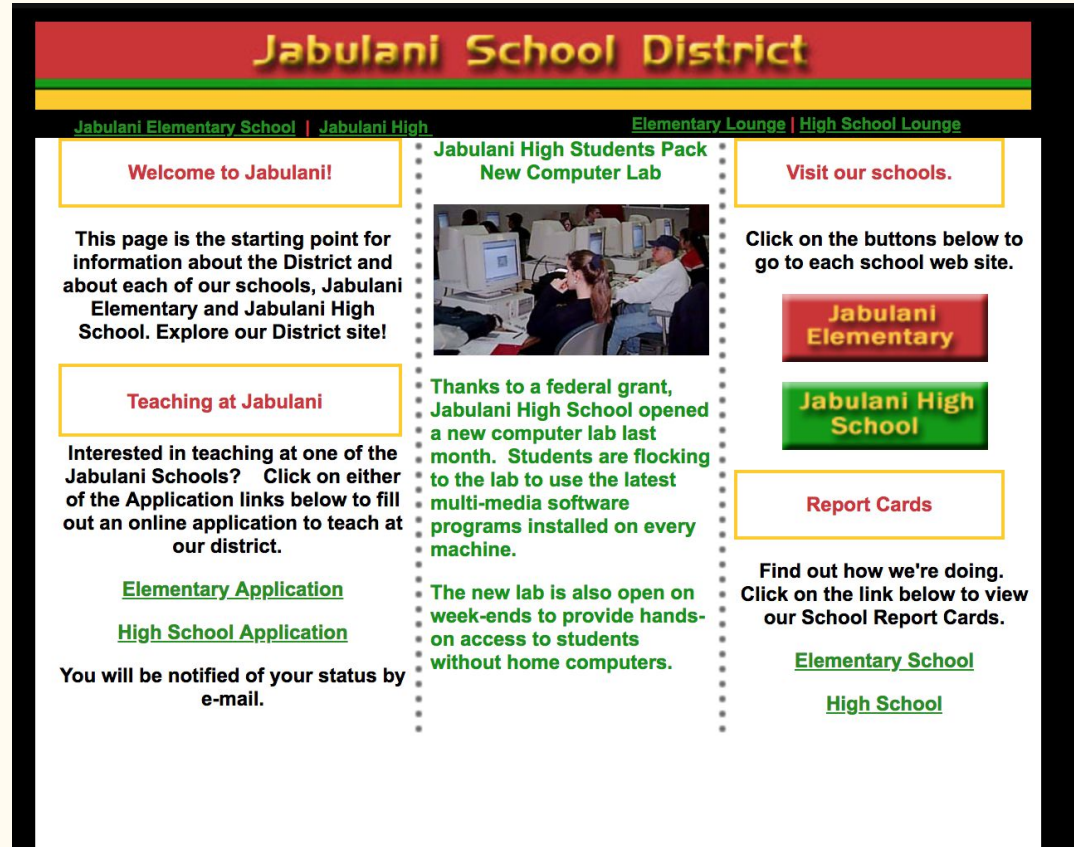
Team Members: Karsten Nguyen, Jasmine Mitchell, Ruben Rincon, Carli Martinez

Gretchen McAllister, Ph.D.



Dr. McAllister specializes in

- interdisciplinary curriculum development
- multicultural, cross-cultural, and culturally-responsive teaching
- teacher education

A screenshot of the Jabulani School District website. The header is a red banner with "Jabulani School District" in yellow. Below the header are navigation links: "Jabulani Elementary School | Jabulani High", "Elementary Lounge | High School Lounge". The main content area is divided into three columns. The left column has a yellow-bordered box titled "Welcome to Jabulani!" containing introductory text and a "Teaching at Jabulani" section with links for "Elementary Application" and "High School Application". The middle column features a photo of students in a computer lab, a title "Jabulani High Students Pack New Computer Lab", and text describing a federal grant and the lab's opening. The right column has a yellow-bordered box titled "Visit our schools." with a call to action and two buttons: "Jabulani Elementary" (red) and "Jabulani High School" (green). Below these is a "Report Cards" section with a call to action and links for "Elementary School" and "High School".

Jabulani School District

[Jabulani Elementary School](#) | [Jabulani High](#) | [Elementary Lounge](#) | [High School Lounge](#)

Welcome to Jabulani!

This page is the starting point for information about the District and about each of our schools, Jabulani Elementary and Jabulani High School. Explore our District site!

Teaching at Jabulani


Interested in teaching at one of the Jabulani Schools? Click on either of the Application links below to fill out an online application to teach at our district.

[Elementary Application](#)

[High School Application](#)

You will be notified of your status by e-mail.

Jabulani High Students Pack New Computer Lab



Thanks to a federal grant, Jabulani High School opened a new computer lab last month. Students are flocking to the lab to use the latest multi-media software programs installed on every machine.

The new lab is also open on week-ends to provide hands-on access to students without home computers.

Visit our schools.

Click on the buttons below to go to each school web site.

Jabulani Elementary

Jabulani High School

Report Cards

Find out how we're doing. Click on the link below to view our School Report Cards.

[Elementary School](#)

[High School](#)

Client Goals



Scenario exercises based on real research studying different family environments

(With scenario permissions given by families)



Function

- Problem-Based Learning(PBL) — There are 6 created scenarios and over 600 student profiles
- Virtual Classrooms will assist with training teachers in preparation (TIPs)
- Administrator grades responses given by TIPs, simulating the messiness of reality
- System must be flexible to change. A team will be modifying the design at a later date.



Plan for Development

- Requirements Acquisition: Meet with our sponsor weekly while drafting diagrams and models to define requirements, and then organizing the requirements and their status in Trello
- Key Technical Challenges:
 - Transferring 600 student profiles from a spreadsheet into a database
 - Modeling a well-designed database
 - Building a software consistent with the client's vision
- Plan for Investigation:
 - Research & team collaboration on ideas
 - Keeping future growth in mind
 - Frequent client communication

Conclusion

