



Florida Gulf Coast University is currently seeking companies interested commercializing software technologies for audience polling. These web-based technologies and methodologies relate to systems and methods for polling a group of participants and automatically gathering and analyzing responses from the participants in real time. Being able to obtain feedback in real time during the course of a presentation or lecture may prove to be a valuable capability that allows the presenter or instructor to dynamically adjust a presentation or lecture in real time to address any misunderstandings of the group participants. Current audience response systems utilize transmitters, better known as “clickers”, receivers and software that work via infrared or radio frequencies. Furthermore, audience members must be in the same location, such as a classroom, with the “clicker” systems. FGCU researchers have developed software technologies that polls and evaluates student responses during classroom sessions whether on ground or online in real time using students’ own cell phones or other web or e-mail-enabled devices, such as laptops, iphones, pocket pc, etc. and thus eliminating the need for any receivers or transmitters. The software is web-based, which allows user, such as an instructor, access from anywhere in the world where there is internet connection. Furthermore, audience members, such as students, can be in different locations.

## APPLICATIONS

The software technologies developed at Florida Gulf Coast University provide an interactive polling system that allows participants (e.g., students, meeting attendees, conference attendees) to interact with a user (e.g., a teacher, an instructor, a presenter, a lecturer) via a cell phone or other web or e-mailed-enabled devices. Such a system can be utilized for polling audience members at the same location or distant locations, such as for online or teleconferencing classes or meetings.

## ADVANTAGES

- Can be used for online and on ground courses
- Can be used for meetings and presentations
- No installation needed on individual computers or cell phones
- This web-based technology allows users to utilize the system at any time and any place
- Audience members do not have to be at the same location (online classes)
- Audience members can view responses in real time whether at the same or different locations
- No transmitters or receivers need to be purchased
- No need to outfit a classroom or building with radio or infrared frequency receivers and transmitters
- System utilizes a participants own cells phones, or any other web or e-mail-enabled devices
- Questions for polling can be preloaded or can be asked “on the fly.”

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## THE TECHNOLOGY

This technology utilizes a participant's own cell phone or any other web or e-mailed devices, which can send text messages or e-mails, to collect responses from participants and evaluates these responses in real time and presents a summary of the evaluation in graph or table format back to the audience via a browser. The software is web-based can be accessed and utilized anywhere in the world where there is an internet connection. There is no need for installation or outfitting of buildings with transmitters and receivers.

## THE INVENTOR

Dr. Mustafa Mujtaba is an Instructor in the Department of Chemistry and Mathematics at Florida Gulf Coast University. He received his B.S. and Ph.D. degrees in Microbiology from University of Florida and completed his postdoctoral research work at Harvard University. Dr. Mujtaba's research interests include the study of local anesthetics and autoimmune diseases and STEM education.

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