



Software for Afro-Latin Dances in South Africa (SALSA)



Overview

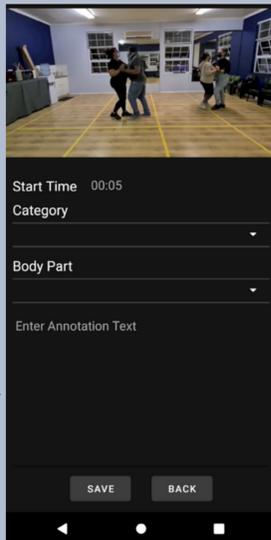
As technology has advanced so to has its applications and usefulness in Dance Education. This project examines the perceived usefulness of a Video Annotation Tool used to provide feedback on student-submitted videos and create quizzes for students and a Domain Specification Modelling Language to allow for step creation in the context of social dance education in South Africa.

The Video Annotation Tool

The Video Annotation component was designed as an Android Application using Java in the Android Studio IDE.

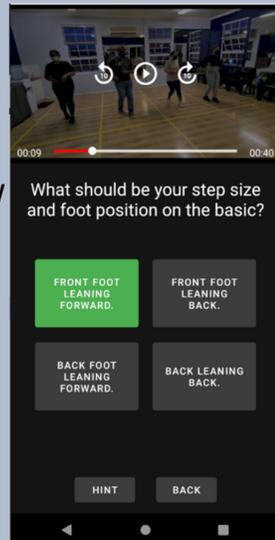
The Annotations were implemented using a custom vocabulary co-developed with the dance educators. This allowed the annotation descriptors to be more easily understood by both students and teachers as it matched how they would give feedback in class.

The app consists of Feedback Creation and Viewing Sections and Quiz Creation and Answering Sections.



The Creation sections are for educators only while the viewing and answering are for students and educators.

The purpose of the feedback is to allow students to get personalized feedback at a moment in time on a video they submit to allow them to improve even when they are not in class. The purpose of the quizzes is to allow students to learn the basic technique, theory and language of a dance before coming to class to maximize the time that can be spent dancing in person.



The Step Notation Tool: SALSAEDITOR

SALSAEditor is a web-based application developed to allow novice and experts users to create and edit salsa dance steps. The application was also applied to allow users to develop Afro-Latin dances such as bachata.

- Graphical Editor Component
- User Interface Friendly
- SVG elements
- Canvas with the salsa dance constraints



The application contains traditional graphical editor such as undo, redo, delete, change colors and export the images.

Functionalities

- Create salsa dance diagrams
- Dance documentation
- Editor features

Conclusions

Video Annotation tool

- Students and teachers believed the quiz had the potential to teach students basic theory and steps prior to in-person classes.
- Students and teachers believed the feedback feature would be highly useful in allowing students to receive feedback when not in classes.
- Overall the application was well received by both groups.

Step Notation tool

- Positive feedback towards the tool, which was a success among the dance teachers.
- The tools need more improvement on the small features of the graphic editor.
- Dance teachers believe that application can help improve dance education.
- For an improved user experience and performance, the tool should be developed in another language using a different approach .

Authors

Ana Dauane
dnxana001@myuct.ac.za
James Kriel
krljam001@myuct.ac.za

Supervisor

Maria Keet
mkeet@cs.uct.ac.za



University of Cape Town,
Department of Computer Science,
Private Bag X3,
Rondebosch 7701

