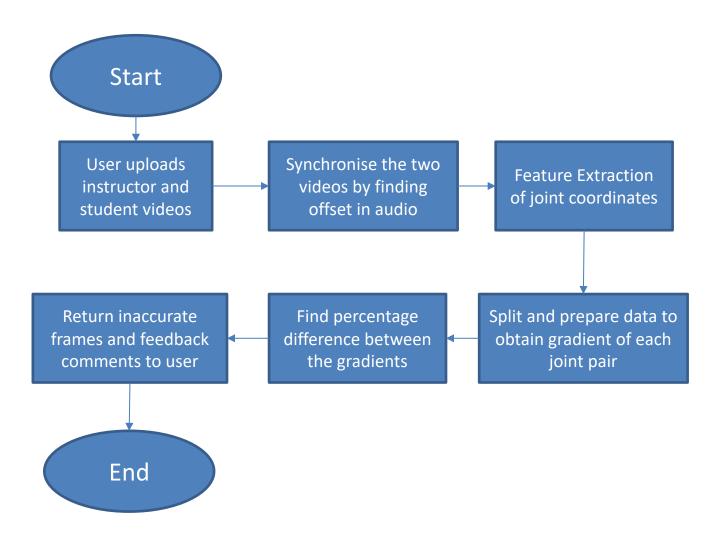


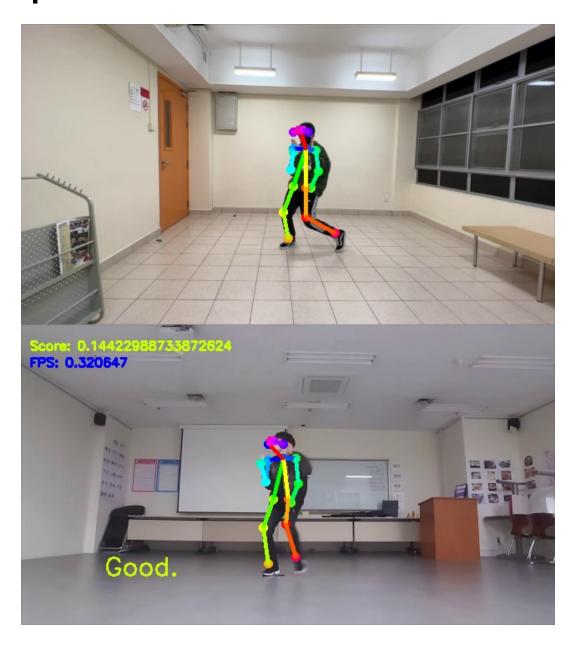
## **Evaluating the Similarity of Poses between two Video Footages**

Student: Ahmad Jazli Bin Abdul Razak Supervisor: Dr. Sourav Sen Gupta

## **Project Objectives:**

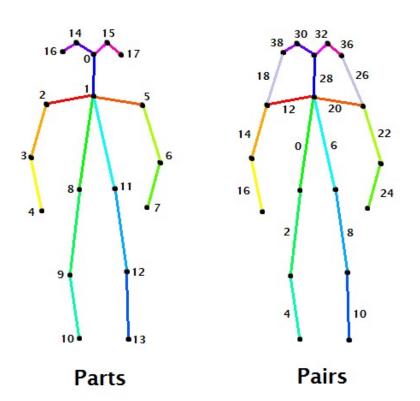
- Develop a platform as a proof of concept to improve the existing framework of how a choreographer teaches dance routines to dancers in a remote setting
- Design and develop a machine learning program that can detect poses of a moving body from a video file
- Compare poses of two bodies from separate video files
- Provide feedback to the user on the similarity of poses





## **Features:**

- Instructor & Student Video Input
- Time Series Synchronisation by displacing audio offset in video
- Pose Estimation using OpenPose
- Feature Extraction with COCO Dataset
- Joint Similarity Algorithm by finding the Percentage Difference in gradient of every corresponding frame in the 2 videos
- User Feedback and comments on frames with poor similarity



## Significance:

- Simplify the current workflow of overseas collaboration between choreographers and dancers
- All-in-one tool for remote dance classes