Do the Buzzer Shake
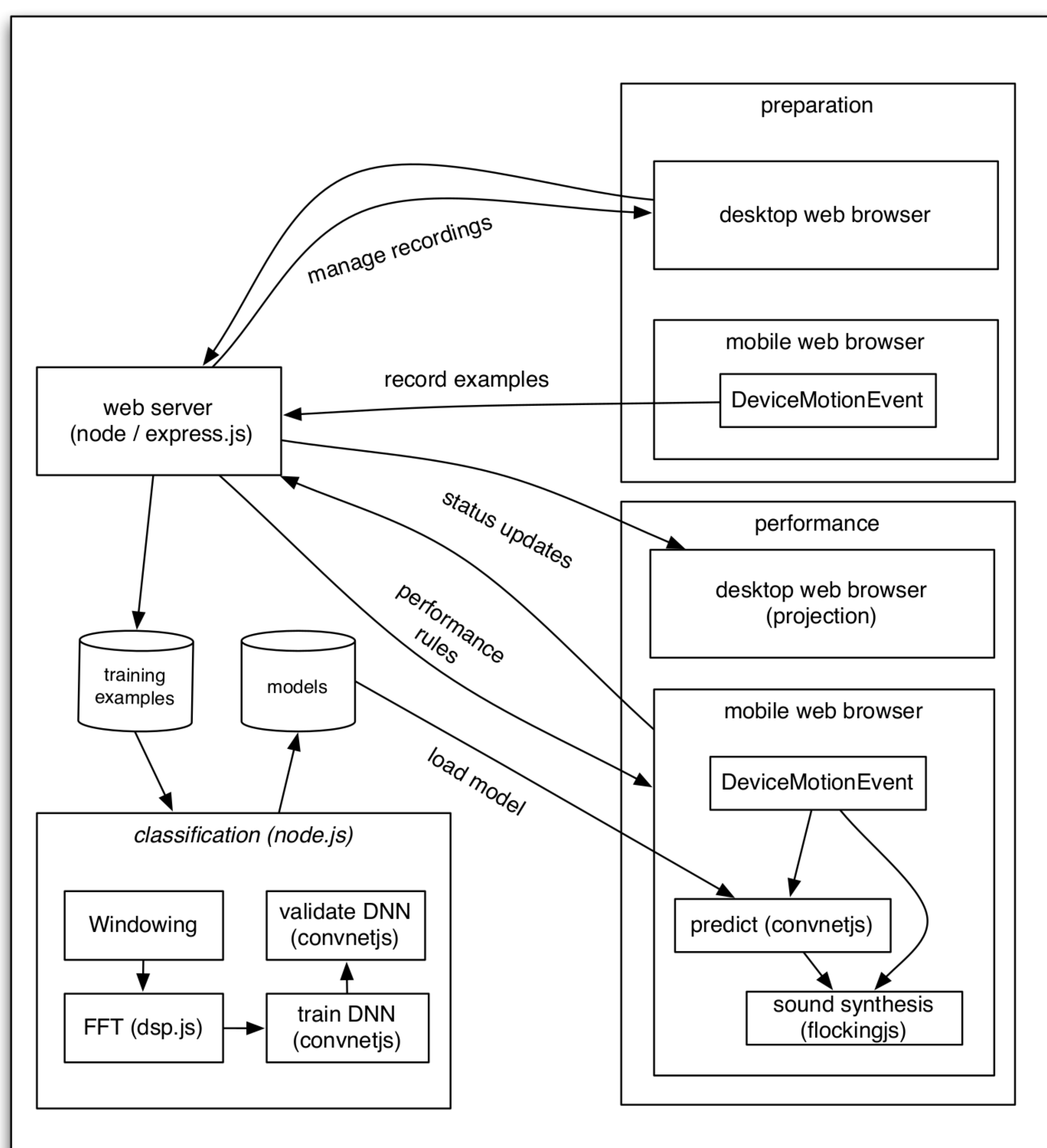
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Abstract. This performance explores a setting where the music is entirely created by the audience using their mobile phones, and there are no predefined hierarchies beyond the proposed interface. The piece is specified as a number of mobile accelerometer gestures that are recognized in a web application. Each gesture triggers a recognizable sound. The main goal is to study the social diffusion of the discovery process.
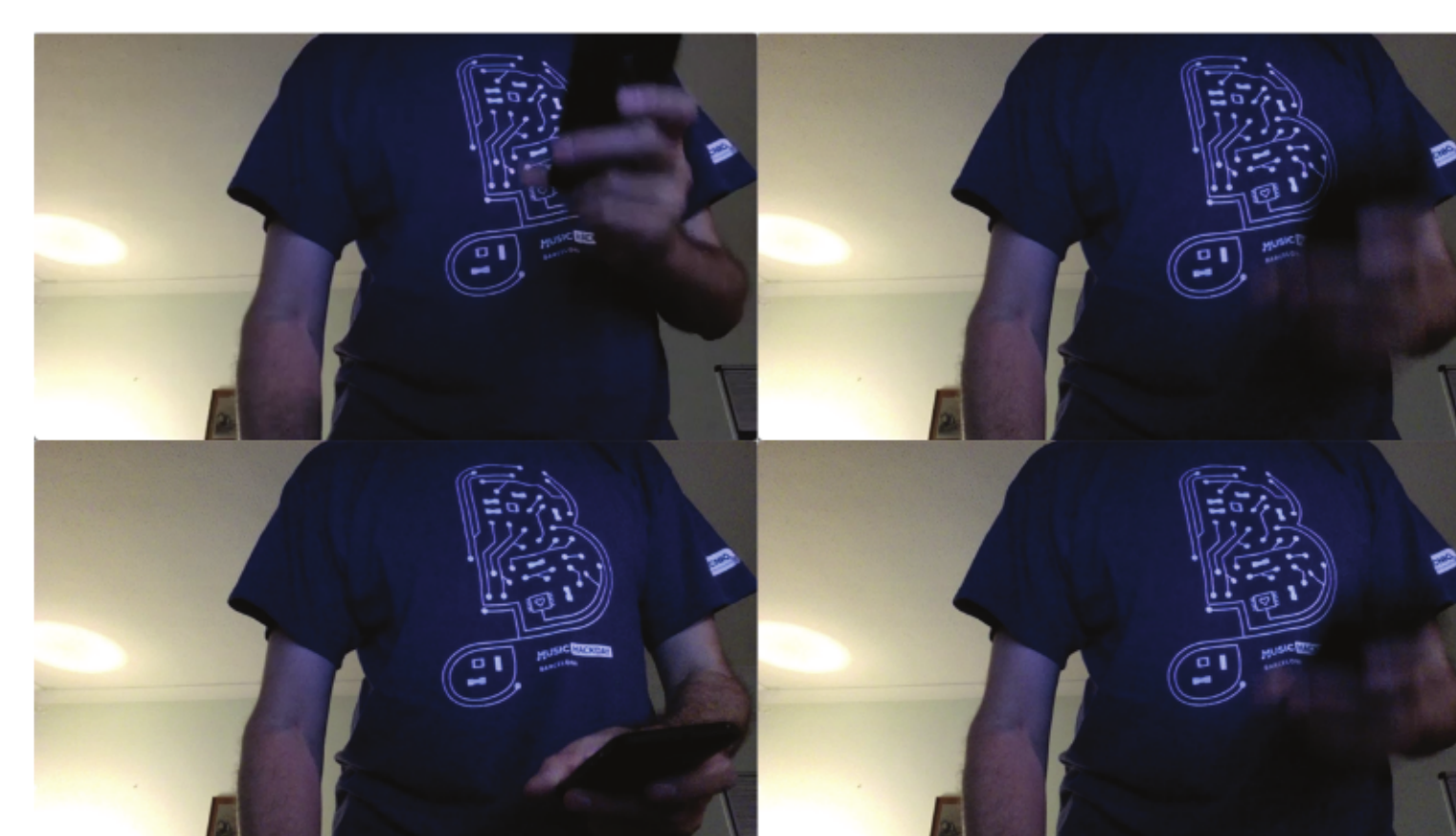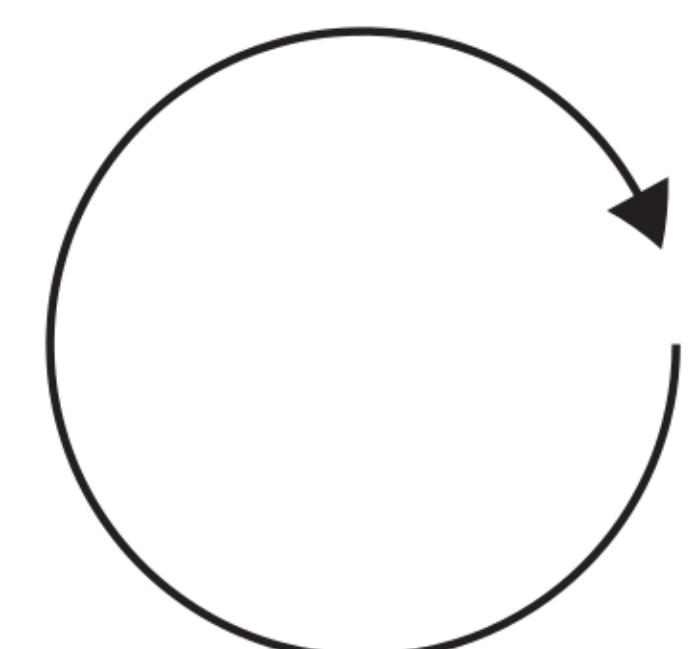
Handwaving

We developed a web application to collect examples of each gesture and train a Deep Neural Network (DNN) classifier, as well as to support the performance. Gesture detection and sound synthesis work on most recent smartphones.
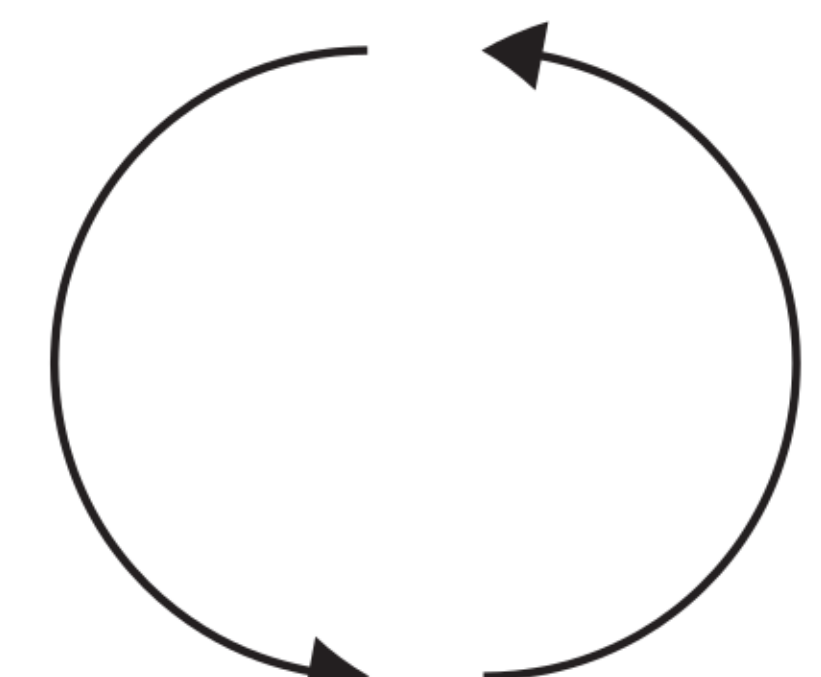

Example gestures

Circles

Up-Down

Tilt

Left-Right

goo.gl/QQAuoS