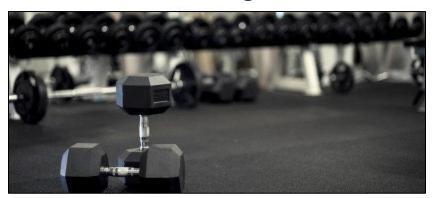
LogMyMotion

Sam Kim, Nikhil Patil, Eric Freilafert, Aryaman Das, Ethan Su



Motivation

- Exercise can be daunting for those new to working out
 - Uncertainty
 - Risk of Injury
- Personal trainers are not always convenient
- Lack of real-time feedback during solo workouts

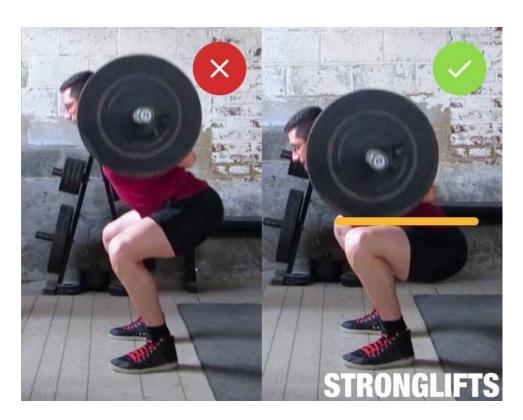


Our Solution

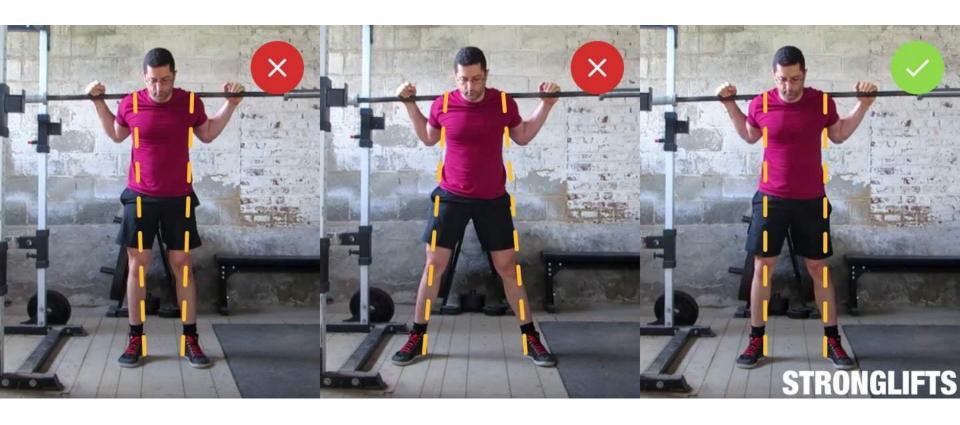
- Machine learning to analyze exercise form
- Provide real-time feedback and long-term analytics



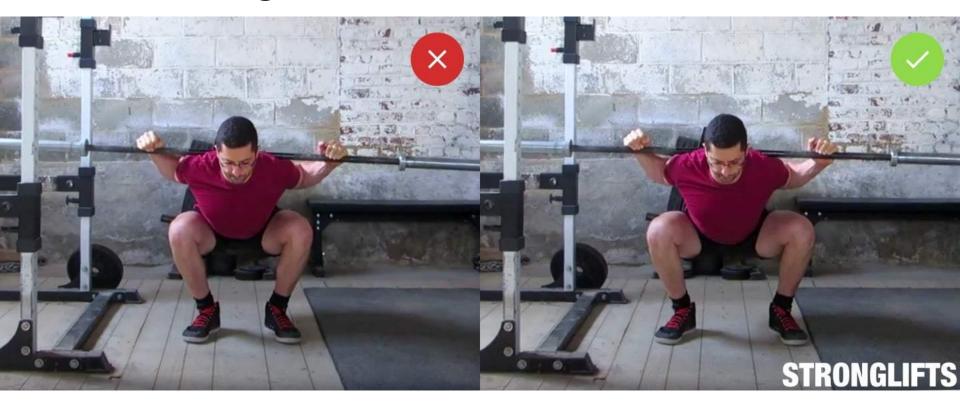
Squat Depth



Feet Width



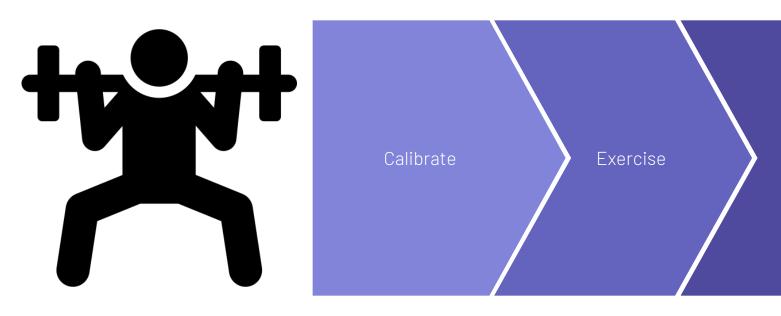
Shoulder Alignment



Knee Angle



Analyzer Overview



Results

Technologies



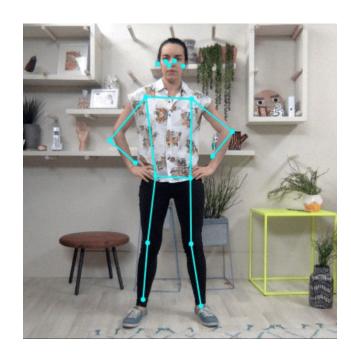


ReactJS



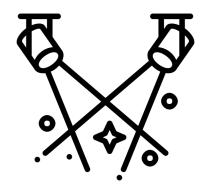


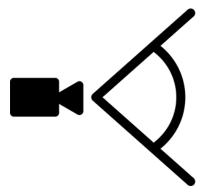
Google Cloud Text-to-Speech



Challenges

- Sensitivity to lighting and background setting
- Angle limitations to detect joints / keypoints on the body





Future Implementations

Implement more exercises





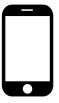
• Improve audio feedback



More analytics for the user



Mobile Application



Questions?