DART

(Detection of Attention span in Real Time)

Idea / Approach Details

Organization Name : Great Learning
Problem Statement : Attention Span Detection in Online Instructor Led Sessions
Team Name : Singularity
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Problem : By 2021, online education market in India is going to be a $2BN industry. But the learning experience is still rid with distractions leading to inefficiency. Also, the attention span of youth is decreasing continuously. So to improve the learning experience, the online education websites should have a mechanism to monitor and measure the attention span of the learners in the online sessions.

SOLUTION

DART -> Browser Extension or website extension to monitor and measure the attention span of the learners in the online sessions.

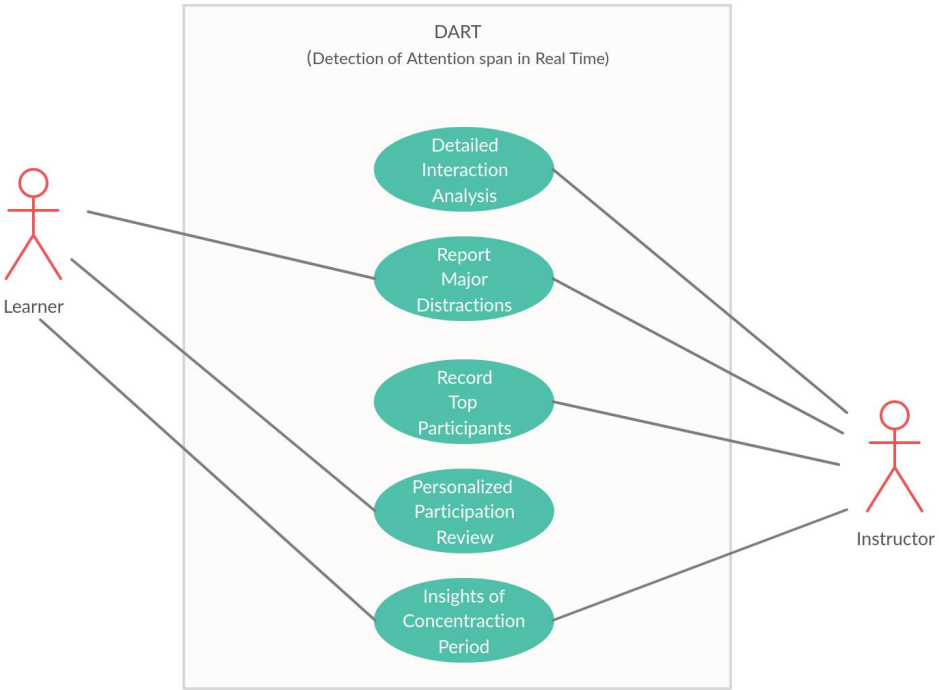
Extension detects :

- Facial and eye pattern
- Background Noise
- Browser Activities
- Dialogue Pattern (1 way vs 2 way)

Results In Real Time:

- Popups for Suboptimal Participation
- Dashboard - Attention Span & Score
- Analysis of Dialogue Pattern
- Report of Participation
- Top Learners

USE CASES



TECH STACK

- **Python**
  OpenCV, TensorFlow, Flask
- **Web Technologies**
  HTML, CSS, JavaScript, NodeJS, ExpressJS, MongoDB, Rest APIs
- **Machine Learning**
  Face Attention Neural Network

DEPENDENCY

Laptops/Computers with

- Front Camera
- Microphone

Business Model

- Our **target audience** are all the online learning hubs and MOOCs (Massive Open Online Courses) such as Great Learning, Udemy, Coursera, Open-Edx, etc.
- **Market Size :** A report by KPMG estimates that by 2021, the online education market in India is going to be around $ 2BN.
- **Competition :** Currently, any of the online learning sites or MOOCs don't have such mechanism to track attention o targeted learners. So, there is **no competitor**.
- **Zero development cost :** Our proposed solution is completely software oriented and it wouldn't require any developing cost, working as an integratable extension.