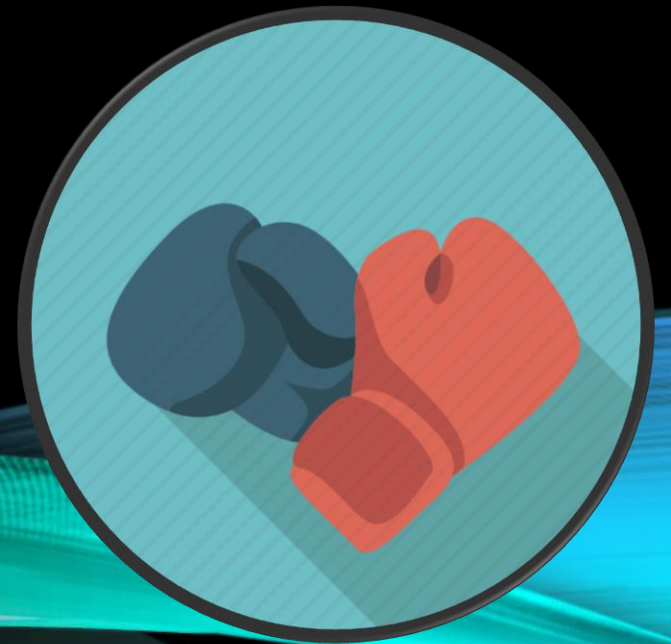


GROUP 2

MOVEMENT CORRECTION SYSTEM

Nicolas Schmitt, Hieu Nguyen, Khoa Dinh, Tram Vu



CURRENT MILESTONE?

- **Final software design**
- **Algorithm for mistake identification**

WHAT WE CHANGED IN OUR PLANNING

Reaction to last Presentations feedback:

- More focus on Product Development
 - What do users actually want?
 - User research: Interviews with possible users
 - Change in requirements based on the interviews
 - Which data do we want to visualize and how?
 - Based on User Research: mainly focus on boxing-specific performance data(speed/stamina)

USER RESEARCH

- Standardized Interviews with boxers of different skill levels
- Main changes/additions in requirements:
 - Focus on boxing-specific performance data: punching speed and stamina
 - Round-based training sessions
 - Less focus on mistake recognition, because beginners are usually not able to correct problems themselves
- Full documentation can be found on [github](#)

DATA ANALYSIS & ALGORITHMS

Current algorithms for:

- Punch recognition
 - Based on acceleration threshold(x – forward direction)
 - prevents counting one punch multiple times
- Hand dropped after a punch connects
 - Based on acceleration threshold(x – forward, y – wrist rotation)



- Both algorithms successfully tested with sample data, real world testing(with different test subjects) is still needed
- Algorithms for speed calculation is still needed

UI DESIGN :

- <https://www.figma.com/file/Rj2K6yia15705oUkY1Cfv0/Polar-Project?node-id=0%3A1&t=2OtLA0n0b4dZONdw-0>
- <https://www.figma.com/file/Fgp7wYVid2xmknKW4hEb55/Polar-team-library?node-id=0%3A1&t=U1h12dUdxMuoa71z-0>

TRELLO BOARD UPDATED:

- <https://trello.com/b/spMHJ8pW/team2>