



PRELIMINARY USABILITY TEST RESULTS

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ACL RISK ESTIMATOR

- Coach uploads video of athlete performing an ACL drop test
- Medical professional can browse the uploaded videos
- Medical professionals can rate and comment on the video informing the coach how prone the athlete might be to an ACL injury and suggest



TESTING PROCEDURE

- Consent Form
- Pre-interview questionnaire
- Test Scenario – 1
- Test Scenario – 2
- Test Scenario – 3
- Post Interview questionnaire



PARTICIPANTS

- 6 participants
- All were male
- Age between 18 – 20
- Either Freshmen or Sophomore

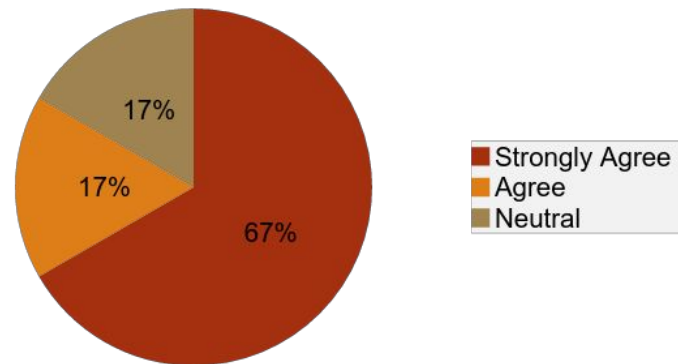
DATA COLLECTED

- Quantitative :
 - Time taken to complete each task
 - Number of times the participant asked doubts
 - Number of app errors encountered
 - Number of user errors
 - Other individual measures for every scenario
- Qualitative:
 - Facial expression of users, confusion or frustration
 - Application lags or accessibility of all the buttons
 - Other individual measures for every scenario

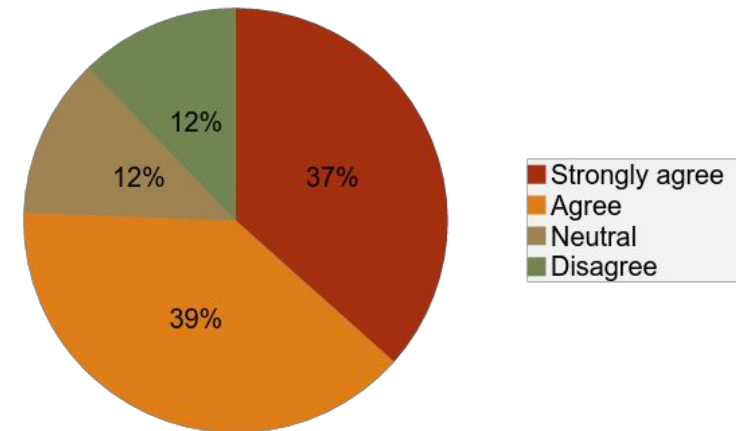
PRE-INTERVIEW QUESTIONNAIRE

All the participants were extremely comfortable using a smartphone as well as recording a video.

I am interested in testing this application

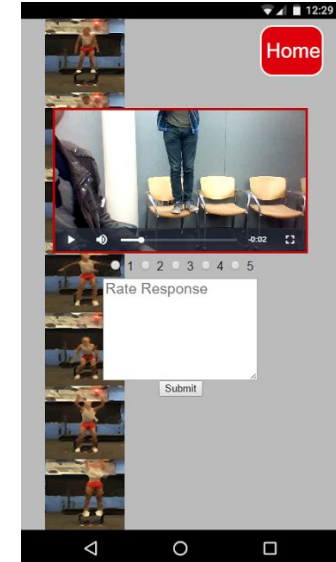
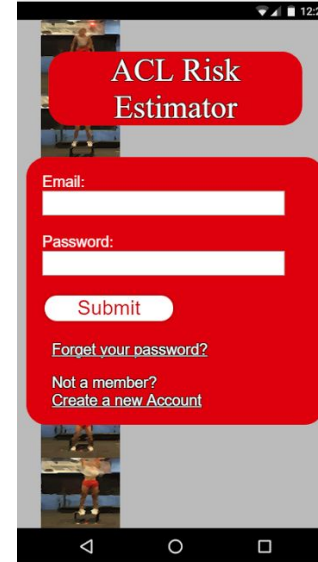


I know what an ACL injury is



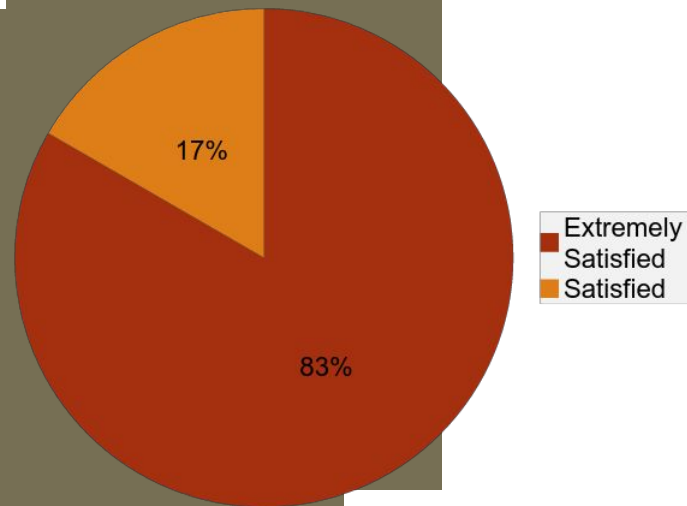
SCENARIOS

- 1. REGISTER/ LOGIN
- 2. UPLOADING A VIDEO (COACH)
- 3. ANALYZING AND RATING THE VIDEO (MEDICAL PROFESSIONAL)

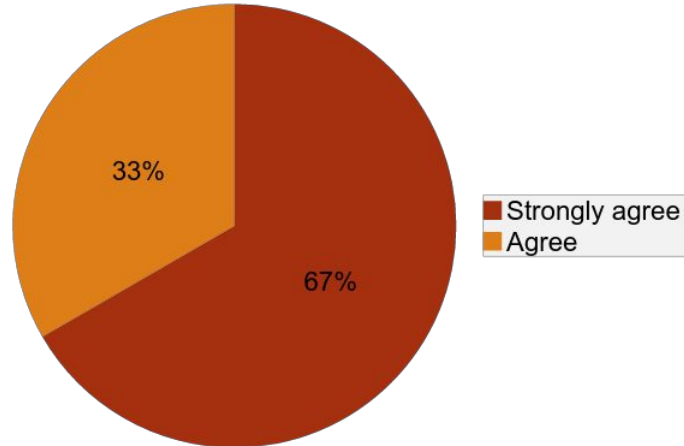


POST-INTERVIEW QUESTIONNAIRE

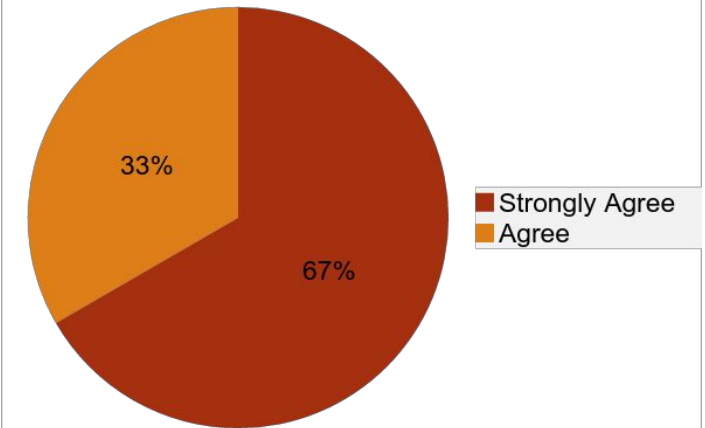
Overall Experience?



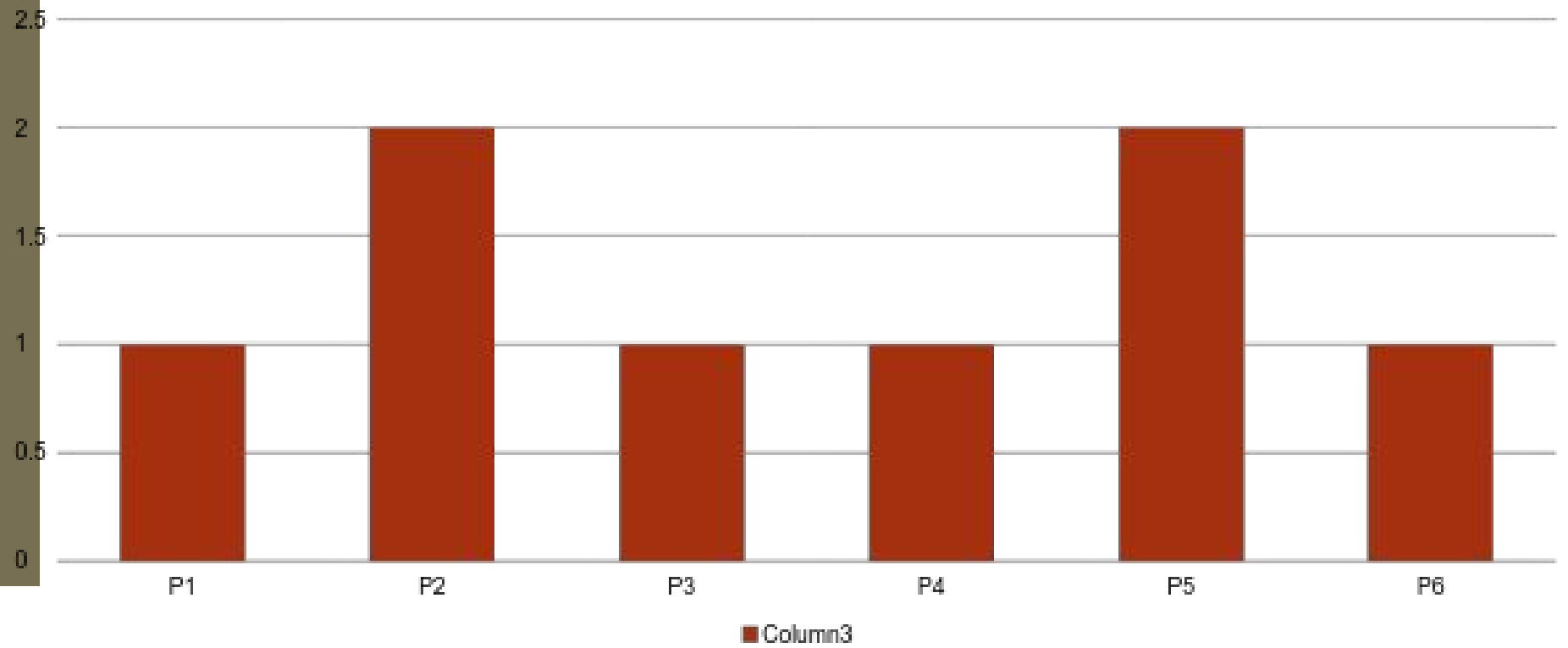
Recommend to coaches?



Interface good for its utility?



SIMPLICITY AND EASE OF USE



SUMMARY OF BUGS

BUG

1.

Crash

Coach
Homepage

App crashed,
when the
server stopped
working

HIGH

2.

Bad video
playback

Medical
professional
video player

Video does not
minimize

MEDIUM

3.

Color of
textboxes

Entire
application

Color changed
from white to
red

LOW

4.

Stuttering
video

Medical
professional
video player

Video not
playing when
minimized

MEDIUM

SUGGESTIONS

- Restrict the interface to just solid colors.
- Redesign the buggy video player by tweaking some components.
- Provide instructions or information about password/username restrictions and the five point scale for the medical professional.
- Change the name “Uploaded videos” to something else because it confuses the user where to select the first time for uploading the video
- Change the layout of the buttons, more texture.



DETAILED REPORT

- A more detailed report about the entire usability testing would be posted on my website soon.