Team ACL

Emily Winkleman, Jayme Mason, Daniel Carrara, Kirstin Burns, Lindsey Kuzich, Jacob Van't Hof, Joell Erchul, Lynde Oddo, Marcelina Kiszkiel

Description of System and Users

A form is presented to the user to be filled out. After filling out all answers they will press Submit. Their responses are then weighed using a formula and their responses are sent to Qualtrics. The page changes to their risk evaluation where a graphical interface is present displaying their risk factor for their group.

Our users would include athletes who wish to get tested, parents of athletes, other scientists that may use the calculator for research purposes, and coaches.

User:

Sarah Johnson:
- 19 year-old basketball player
- She is not worried about ACL injuries; however her coach directs her to try this risk calculator to learn more

Demo of Prototype's UI

ACL RISK CALCULATOR

Sex
○ Male
○ Female

Primary Sport Played
○ Soccer
○ Basketball
○ Hockey
○ Football
○ Volleyball
○ Swimming
○ Down Hill Skiing

Level of Play
○ Youth
○ Middle School
○ High School
○ College
○ Professional

Previous ACL Injury?
○ Yes
○ No

Preventive Training?
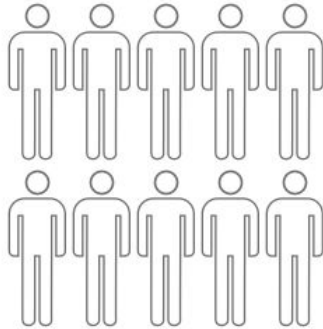○ Yes
○ No

SUBMIT
AND
CALCULATE

Demo of Prototype's UI
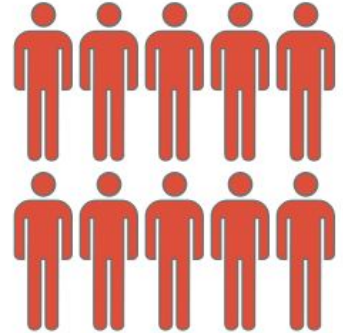
Potential Usability Concerns

Accessibility: The form will be a "readable size" for most, but may be hard to read for those with poor eyesight.

Ergonomics: Making sure everything ports well to mobile and other small devices may be challenging. Our graphic display cannot require too much space or explanation.

Instructional

Users will navigate through a form answering various questions. After the user submits the requested data the application will then calculate what their risk is of suffering an ACL injury and display their risk results. The layout and input should be easy enough for people of a younger audience to follow and understand, since these people are the primary audience, however, parents of these people should also be able to find this easy to follow and understand.

Finished UI Components

Getting deployment to work:

https://hci-dev.cs.mtu.edu:8137/aclrisk/

Plan for UI Next Week

- Basic CSS improvements
- Functioning Risk Graphic
- Implementing the functionalities of the form
- Mobile versions of all planned features

Questions?