

Team 49ers: Team Strategy Deliverable #2

- **Assessment of Current Strategy:**

- **Overall strategy**

- The team has been divided into three subteams, each responsible for a separate component of measuring hamstring strength as a metric for player performance and recovery:
 - Strength testing and measuring: Using sensors to translate the exercise into data
 - Biomechanics: Using a “virtual leg” model to convert externally measured leg force into internal joint and muscle forces
 - User Interface: Translating the calculated health metrics into a deliverable and interpretable product.

- **Modes of communication**

- Meetings: Zoom, WebEx
- Messaging: Facebook Messenger
- Document Control: Google Drive, 49ers Wiki

- **Team meeting times**

- Full Team:
 - Weekly Sponsor Calls - (tentatively) Wednesday, 6pm EDT
 - Class Times: Tuesday & Thursday, 1pm EDT
- Subteams (of three) will not necessarily have a set meeting time every week, but will schedule meetings to address tasks based on immediate availability.
 - Biomechanics: Mon, Wed, Fri, 12-1pm as required

- **Division of labor**

- UI/UX: Amanda, Lisa, Rachel
- Biomechanics: Tom, Sam, Riley
- Strength Test & Measurement: Johnny, Brendt, Jonathan

- **Clarity of Roles and Accountability**

- Subteams:
 - UI/UX: Each member of the UI UX team will come up with different designs for the different functionality UIs, and then we will come together to decide on one in order to implement the data from the biomech and sensor team to produce a functional UI.
 - Biomechanics: The biomechanics team will meet 3 times per week to share individual progress, combine progress, and contribute to the overall sub team goal.
 - Strength Test & Measurement: Each person will become a “subject matter expert” on the sensor kit they are assigned to test. Once a sensor is selected, roles will shift to integrating the selected sensor with the rest of the team.

- **Weekly Milestones:**

- These are in the updated semester schedule document.