User Testing with Kim Keller - Feb 26, 2024

Imaging View Page
- Graphs - Side graph is hard to read visibly
  - Do listing with numbers beside that does the same as the benchtop app that currently exists from Ground Truth Ag.
  - Have characteristics and weighting, with grade displayed on each graph so don't get confused what you're looking at
    - For example: want to see which kernels are damaged
  - Bounding boxes should match the characteristics of concern (with same colors)
  - This grade result is for this package of images rather than just one
  - Multiple images per result? - yes but for our purposes these are separate samples.
- In response to the live feature
  - The ability to pause the live view makes sense
  - Add a reminder if the user is on pause for too long that live view is not on

Map View Page
- Creating the path, needs to tie in to ground speed + header width
  - Might not be in first release - needs to be really accurate
  - Determined that maybe displaying the path as dots is more valuable
- Filtering
  - Less typing is a priority - dropdown, click, etc
  - Might not use in the combine if too much attention is needed to use
  - Asked about if map filter changes live view - answer is no but maybe in future release where you can filter the annotations, this is out of scope for our project
- Team members
  - Follow functionality of overall gta admin for user flow
  - Fine with bottom tab nav - simple
  - Match theme with benchtop app

Current grading process
- Combine picks up sample
- after bin (per bin), take to grain elevator where the sampling process takes place
- Sampling process is visual, non-visual grading such as moisture test, protein test etc also take place
- Once the grade is determined, the grader calls/texts the farmer about the grade
  - The graders don't tell you grading factors.
  - The farmers either agree with the grade and say yes sounds good let's make contract, or no and give you the sample back then make their own sale
  - Saying no: disagree with sample or price, elevator has different prices

- ○ 13,000 acres = 80-100 bins, say 5 bins of wheat, take sample from each and take avg,
- ● **Contract** - if u dont get samples done, <u>don't have any idea of what's in the bin.</u>
    - ■ I will contract a #1, 13.5 protein,<u> dont get more for extra but get penalized</u>
    - ■ 50c-$1 per bushing
    - ■ Need to know what your quality is because can vary between bins/field,
    - ■ **<u>No way to know right now just based off the past</u>**
    - ■ **<u>Currently there is no way to know what grade to select for a contract</u>**
        - ■ "Throw a dart at a dartboard" - to select the grade
        - ■ Mostly based on previous years grade
    - ■ Time to grade: Depends on what sample looks like - good = easy to grade
        - ■ Snow, frost, weird stuff may make it take longer
        - ■ 15-20 mins per sample
        - ■ Turnaround time of 4 days
            - ■ Depends on crop type - germ test for x for example
    - ○ <u>This app is helpful to be more accurate for future years</u>
    - ○ **<u>Make contracts before, while, and after harvesting bins (all three), mitigating risk</u>**