**Product Increment:**

Tagged in bitbucket as Sprint\_3\_Product\_Increment

**Test results and analysis:**

* Task 1: Black box and Unit Testing graph colors/ and suggested concrete temp for low/medium risk
  + Test Cases
    - Points in red, yellow, green
      * Expected Result:
        + Red > .2
        + .2 >= Yellow > .15
        + Green < = .15
        + Tooltip border corresponds with color
        + Red data section has suggest conc temp for low and moderate risk
        + Yellow data section has suggest conc temp for low risk
      * Found issue: When page is resized or moved the points can change color. Did not fix. **Add to next sprint**
      * Found issue: Plot Band titles show up when not needed. Not fixed. **Add to next sprint**
    - Changing concrete temp (Changing colors ex: red data section -> yellow)
      * Expected results
        + Colors correspond
      * Found issue: After concrete temp was changed the color of the points would change. Issue was resolved
      * **Completed**
    - Unit testing suggested conc temp
      * Expected result
        + Changing to the suggested conc temp would put it in the correct section on the graph
      * Found issue: Due to rounding this can be a little off. Client did not care, doesn’t want too many decimal places. Issue was resolved
      * **Completed**
    - Black box testing metric/standard labels
      * Expected Results:
        + Correct labels appear when either in metric/standard
      * **Completed**
  + All colors and displayed when needed and in the correct location. The suggested concrete temp for low/medium risk are correct and logical
* Task 2: Changing concrete temperature -  **Complete**
  + The concrete temperature can be changed and is correctly updated in the formula when changed
* Task 3: Check new Boundary for inputting concrete temp -  **Incomplete**
  + This was not done because the boundary will most likely change. Add to backlog.
* Task 4: User sessions – **Complete**
  + User sessions work as intended
* Task 5: Secure passwords – **Complete**
  + The password encryption function makes the password unrecognizable without knowledge of what is done as intended.
* Anomalies
  + Times are wrong we never accounted for different time zones. Time zones need to added for local time of zip code. **Add to next sprint**

**Sprint Review**

* Monday Jan 2nd 2:00 – 3:00
* Daniel Grote, Zach Smith, Mark Grinter
* Discussion:
  + We demoed what was accomplished in sprint 3.
  + Discussed the graph:
    - Colors
    - Labels on changing concrete/wind speed
    - Tooltip
    - Dates and times
    - Vertical lines above start of day
  + Speed temperature
    - New functionality (changing the wind speed for one date and time)
    - A new way to get the concrete temp
      * Splitting NA into 10 zones separated by latitude lines and then using preset temps for these areas
* Decisions:
  + Clients want the following changes/additions:
    - Try to get avg temp of zip or region to be used for the concrete temp
    - Add page with explanations of how the calculation was done, where the weather data is coming from, etc.
* Follow up actions:
  + Update Project Spec and Plan with new requirements
  + Mark is researching more into concrete temp to get a better idea on how to predict it by the latitude zones discussed in the meeting

**Sprint Retrospective**

* Mark had no complaints and thought everything was going well.

**Update Sprint Backlog:**

See Backlog.xlsx, Tab: Sp3

**Create Sprint Burndown Charts:**

See Burndown.xlsx, Tab: Sp3

**Create Sprint Effort and Velocity Charts:**

See “Effort and Velocity.xlsx”, Tab: Sp3

**Update Product Effort Charts:**

See “Effort and Velocity.xlsx”, Tab: Product

**Update Product Backlog**

See Backlog.xlsx, Tab: Current