**Product Increment:**

Tagged in bitbucket as Sprint\_1\_Product\_Increment

**Test results and analysis:**

* Task 1 – Research Web Services and API’s:
  + N/A
* Task 2 – Pull weather data from NOAA:
  + NOAA doesn’t provide hourly increments, only 3 hour increments up to 2 days, then 6 hour intervals for the next 5 days, so 34 total increments for the week. Notified client and changed project spec to reflect new requirements.
  + Tested all zip codes and the library we used only works for zip codes within the contiguous United States, so Alaska and Hawaii will not show data. Notified client and changed project spec to reflect new requirements.
* Task 3 – Parse weather data:
  + N/A – library we use already parses XML data from NOAA into variables.
* Task 4 – Create function to calculate evaporation:
  + Tested using data from “Plastic Shrinkage Cracking and Evaporation Formulas – Table 1”, given by the client, to ensure results came out exactly the same, which they did. Client also tested using a Nomograph.
  + Combined all modules for a demo and successfully output all data in a graph.

**Update Sprint Backlog:**

See Backlog.xlsx, Tab: Sp1

**Create Sprint Burndown Charts:**

See Burndown.xlsx, Tab: Sp1

**Create Sprint Effort and Velocity Charts:**

See “Effort and Velocity.xlsx”, Tab: Sp1

**Update Product Effort Charts:**

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

**Update Product Backlog**

See Backlog.xlsx, Tab: Current