**System Architecture Diagrams**:

See ER Diagragram v 1.1 – Added weather table

No changes to UML diagram

No changes to High level architecture

**Updated Risk Table**:

See “Risk Table.xlsx”, Tab: Sp2

**Project Review(minutes)**:

* 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

**Updated Project Plan**:

No updates to the project plan

**Create Sprint Backlog:**

See Backlogs.xlsx, tab: Sp4

**Updated Agile Use Cases:**

See project spec 1.0.7

**Updated Product Backlog:**

See Backlogs.xlsx, tab: Current

**Test Plans:**

* **T**ask 1: Testing graph colors/ and suggested concrete temp for low/medium risk
  + Unit testing
    - Test Cases:
      * For data in Green (low risk) section
        + Expected Result – LOW RISK in background, and no suggested concrete temp
      * For data in yellow (med risk) section
        + Expected Result – MODERATE RISK in background and suggested concrete temp for low risk in tooltip
      * For data in red (high risk) section
        + Expected Result – HIGH RISK in background and suggested concrete temp for moderate risk and low risk
* Task 2: Changing concrete temperature
  + Unit testing
    - Test Cases:
      * See task 3
        + Concrete temp/ evaporation rate/ and point on graph is updated correctly.
* Task 3: Check new Boundary for inputting concrete temp
  + Unit Testing different concrete temp boundary of 45 to 115 (in fahrenheit) and 7.22 – 46.11 (in Celsius) and can enter up to two decimals places
    - Test Cases:
      * If left blank
        + Expected Result: concrete temp set to air temp
      * >116 F
        + Expected Result: Doesn’t Work
      * <44 F
        + Expected Result: Doesn’t Work
      * Characters
        + Expected Result: Doesn’t Work
      * 44.90 F
        + Expected Results: Doesn’t Work
      * >46.2 C
        + Expected Result: Doesn’t Work
      * <7.20 C
        + Exected Result: Doesn’t Work
      * 7.25 C
        + Expected Result: Works
      * 44 C
        + Expected Result: Work
      * 75 F
        + Expected Result: Works
      * 12.401
        + Expected Results: Doesn’t work
* Task 4: User sessions
  + Steps:
    - Login with a temporary account
    - Input a zipcode
    - Log out
  + Expected Result: User stays logged in until the log out button is pressed
* Task 5: Secure passwords
  + Steps:
    - Send a password through the encryption function
    - Make sure the output is not recognizable
    - Send output through decryption function
  + Expected Result: output of decryption function is same as password
* Integration testing
  + Input form, calculation, metric, graph output
    - If concrete temp is blank it needs to be set to air temperature
    - Metric calculations displayed on graph output when desired
    - Weather variables are correctly displayed in tooltip
* Performance testing
  + Test to see that the graph takes less than 5 seconds to load