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| Status Report | SR03 |
| Concrete Concepts | 3/23/2015 |

Status report of the Concrete Concepts team, which was completed midway through sprint 5.

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| **Summary of Remaining Person Hours** | |
| Person-hours Remaining this Sprint: | 20 3/4 |
| Person-hours Remaining in Product Backlog: | 68.5 |

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| **Summary of Total Person-Hours Worked Since Beginning** | |
| Bryan: | 51.3 |
| Dan: | 102 3/4 |
| Zach: | 32 1/2 |
| Team: | 186.55 |

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| **Total Person Hours worked Since Last Status Report** | | | |
|  | **Sprint 4** | **Half of sprint 5** | **Total** |
| Bryan: | 21 1/2 | 6 | 27 1/2 |
| Dan: | 24 | 25 3/4 | 49 3/4 |
| Zach: | 8 | 13 1/2 | 21 1/2 |
| Team: | 53 1/2 | 45 1/4 | 98 3/4 |

**Plan Process & Requirement Changes**

* **Requirement Changes** 
  + Instead of changing concrete temperature/wind speed for a point on the graph the client wants it to change it for the whole graph. These changes would show up as a new series. Each series should look different
    - Justification: Makes application more simple & easy to use
  + Can no longer enter in a wind speed. Its either Inside or Outside
    - Justification: More applicable to the real world
  + Predicting concrete Temperature
    - Justification: Client didn’t want to enter concrete temperature on the initial prediction. This makes the application easier to use.
  + Add legend
    - Justification: Since there can be multiple series a legend is needed to distinguish the different series.
  + Tooltips on buttons
    - Justification: Client wants a description of what each button does on the graph page
* **Plan Changes**
  + Since we were behind schedule in sprint 4 we added more requirements than originally planned.
* **Process Changes**
  + Added test anomaly report to Sprint Output in accordance with our test plan.

**Work Accomplished**

* **Before Sprint 4**
  + Fixed test plan based on feedback and turned it back in - Everyone
  + Performance improvements to loading graph – Bryan & Daniel
    - February 12-13th
      * Daniel – 8 hours
      * Bryan – 4 hours
  + Code Reviews/Walkthroughs – Everyone
  + Server paperwork/meetings with ITS - Everyone
  + Researched melisadata.com and NCDC web services for getting past temperatures for a zip code for each day/time (https://www.ncdc.noaa.gov/cdo-web/webservices)– Daniel & Bryan
    - Feb 17th – 18th
      * Daniel – 3 hours
      * Bryan - 4 hours
  + Made a prototype of the above bullet (pastw.php) - Bryan
    - February 18th-19th
      * Bryan – 2 hours
  + GUI Design of all pages – Bryan & Daniel
  + Updated/Improved System Architecture – Bryan & Daniel
  + Updated UML Diagram – Came up with all the methods that the database classes needed to have
  + Updated ER Diagram – Made improvements to database design / Database Normalization / Added shared projects to design / Added weather data for a zip code to the design so it can be reused without having to access NOAA again – Bryan & Daniel
    - User Table
    - Project Table
    - Project Lookup Table
    - ChangeInStateNotificaiton Table
    - FutureNotificaiton Table
    - WeatherData Table
  + Fixed status report based on feedback – Bryan & Daniel
* **Sprint 4**
  + Fixed time zone offsets – Bryan & Daniel
  + Can now get weather predictions for Hawaii, Alaska, Puerto Rico, and Guam - Bryan
  + Change a concrete temperature for a point correctly in metric - Daniel
  + Change wind speed for a point in metric and standard - Daniel
  + Get city, state, and time zone of a zip code – Bryan & Daniel
  + Full Date on Tooltip – Daniel
  + Validation of user input when changing a concrete temperature/ wind speed for a point in the graph in metric and standard - Daniel
  + Concrete temp prediction formula - Bryan
  + Hot/Cold concrete temperature warnings – Daniel
  + Fixed resizing bug where the color of the points would change when resizing the window – Daniel
  + Fixed plot band title bug where the plot band title would appear in the wrong place - Daniel
  + Added rounding of weather data variables – Bryan & Daniel
  + Added correct metric/standard labels to weather data – Daniel
  + Added reset button that would reset the graph to the original predictions and would remove user changed concrete and wind speed points – Daniel
  + Add new series prototype. This was a prototype that we demoed to the client to see if instead of changing the original predictions when changing a points concrete temp/wind speed to instead create a new series so the original predictions are never changed – Daniel
  + Page Design – Bryan
    - Project Page
    - Create Account Page
    - Edit Account Page
    - Forgot Password Page
    - About Page
    - navbar
    - Other various design changes
  + log in functionality – Bryan
  + Finished user account table – Zach
  + Finished/Tested user account table functionality - Zach
    - Add user
    - Delete user
    - Change email
    - Change password
    - Change name
    - is user admin
* **Sprint 5**
  + Researched testing tools for performance testing – Daniel
  + Researched adding ‘sticky notes’ – Daniel
  + Research zip code database - Daniel
  + Server access/Installation – Everyone
  + Added grouped categories functionality to x axis labels – Daniel
  + Add legend – Daniel
  + Add series functionality with different colors/styles and validation of user input– Daniel
  + Dynamically assign height & width of graph –Bryan
  + Tooltips on Buttons – Daniel

**Tangible work accomplished**

* **Documents**
  + Sprint 4 Output
  + Sprint 5 input
  + Product Backlog
  + Product Burndown
  + Product Effort and Velocity
  + Project Plan
  + Test Plan
* **Code**
  + graphfunctions.js
  + forgot.php
  + create.php
  + edit.php
  + projects.php
  + forgot.html
  + about.html
  + projectPanel.html
  + graph.html
  + login.html
  + navbar.html
  + enterzip.html
  + users.php
  + projects.php
  + weather.php
  + test.php
  + SQL create table statements
    - Account Database.txt
    - Users Table.txt
    - User Project Lookup Table.txt
    - Projects Table .txt
    - Weather Table.txt
* **Site**
  + http://bryalle.duckdns.org
    - Note: This is what we test on. Might not work correctly if we are in a sprint.

**Risks**

There are no major risks left

* Customer adds requirements risk
  + Currently being managed. If a client adds a requirement and it’s not very important to the client or we don’t think we can finish the project if we add the requirement, then the added requirement will be added to the end of the product backlog. If we get done earlier then scheduled we can work on the requirement. The client will be informed of this and if the client wants to re-prioritize the requirements then all of the requirements will have to be reanalyzed and rescheduled.
* Cannot get SIUE email risk was mitigated
  + This was mitigated by working with ITS and getting the SIUE e-mail.

**Upcoming Milestones**

* Integrate Database into Application
  + User table
  + project table
  + project lookup table
  + project series lookup table
  + change in state notification
  + weatherData table
* GUI design
* Check Notification functionality
  + Timer
* Email functionality
  + Forgot Password email
  + Account creation email
  + Change in state notification email
  + Future notification email
  + Shared Project email
* System Testing
  + Performance Testing
  + Compatibility testing
  + Recovery testing
  + Concurrent testing
  + Conformance testing
  + Security testing
* Beta Release
* User manuals
* Web usage stats for admin
* Delivery to Client; Acceptance Testing
* Final Presentation

**Are We On Schedule?**

We believe that the project can be completed by the end of CS499. Although we fell behind after sprint 3 we caught back up and are back on schedule. We have also been able to accomplish added requirements in each sprints timeframe as well.

**Self-Evaluation**

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| **Criteria:** Process Execution | **Team Self-Evaluation:** Competent |
| **Justification**   * We followed the defined process all of the time. * All the documents specified by the process where created and are on our repository. * We have made improvements on keeping our client up to date during sprints | |
| **Criteria:** Self-Management | **Team Self-Evaluation:** Competent |
| **Justification**   * We followed the predefined plan all of the time. * Based on our estimations we are sure that we will finish our product by the end of the CS499 semester. * Changes to the plan (database design and page designs) were made without negative impact to the schedule. * Documentation has been maintained over sprints. | |
| **Criteria:** Client Requirements | **Team Self-Evaluation:** Exemplary |
| **Justification**   * Our client has said nothing but good things about the work we have done so far. * We meet with our client after every sprint to demo what has been completed. * We email our client with any questions/suggestions as they arise * All of are risks have been identified, and all have been mitigated. * Research client suggestions and if reasonable add the functionality | |
| **Criteria:** Software Engineering | **Team Self-Evaluation:** Competent |
| **Justification**   * We have updated and improved our design diagrams (including the database schema, ER diagram, high level architecture) * We started using anomaly reports after each sprint in accordance with our test plan * We’ve stayed mostly on track for most of the semester | |
| **Criteria:** Communication | **Team Self-Evaluation:** Competent |
| **Justification**   * Our approach is known by all team members. * We all feel comfortable presenting in front of others. * We work together when communicating with outside contacts (ITS). * All our information is available to each team member and other people. * We improved our communication outside of school hours * We communicate with our client more often (during and between sprints) | |

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| Signatures of Team Members | |
| Bryan Allen | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Daniel Grote | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Zach Smith | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |