**NCAA Bracket Predictor**

# Sprint 4

Team Members:

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**User Stories:**

John wants to use the website easily, from both his desktop and his mobile device. He wants to select multiple indicators and see what percentage of the bracket he got right for previous years. He also wants to see which picks the prediction got right and wrong. He wants to try multiple different ones and see what the overall high score is. When it is all said and done he wants to close out of the website with ease.

Nathan wants to be able to select multiple indicators with weights of his choosing. Nathan wants it to where if he doesn’t specify weights each selected indicator is weighted equally. He wants to see how each indicator is calculated. He also wants to see the formula used to calculate it afterwards. He also wants to see what percentage he got right.

**Task Cards:**

* Add % correct to website
* Add right and wrong picks to website
* Make weighting feature work
* Display weighting formula
* Create more indicators
* Normalize data
* Refine algorithm for determining what effects wins
* Reset button to easily reset the weights
* Test with another group
* Update to 2018

**Sprint Backlog:**

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Priority [1-10 (1 being lowest)] | Story Points | Completed(Y/N) |
| % added to website | 8 | 2 | Y |
| Right and wrong picks added to website, with colors | 9 | 2 | Y |
| Weighting feature working correctly | 8 | 3 | Y |
| Add 2018 | 10 | 1 | Y |
| Reset button | 5 | 1 | Y |
| More indicators | 5 | 1 | Y |
| Normalize data, make opponent stats negative | 10 | 2 | Y |
| Display weighing formula | 4 | 1 | Y |
| Test with another group | 10 | 2 | Y |
| High score | 3 | 2 | Y |

**Product Backlog:**

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Priority [1-10 (1 being lowest)] | Story Points | Completed(Y/N) |
| Develop an algorithm that predicts future tournament results | 1 | 1 | N |
| Integrate more advanced statistics | 7 | 3 | Y |
| Create picture of the bracket with appropriate teams | 7 | 2 | Y |
| Collect Data | 10 | 2 | Y |
| Have a basic working model | 10 | 2 | Y |
| Potentially display through HTML | 1 | 4 | Y |
| Update for 2018 tournament | 3 | 1 | Y |
| Display data in charts and tables | 5 | 1 | Y |
| Create User Interface | 4 | 4 | Y |
| Host website | 9 | 2 | Y |
| Create working website model | 8 | 3 | Y |
| Merge website and python code to work together effectively | 8 | 4 | Y |

## Sprint Retrospective

We are happy with the progress we have made in this sprint. We primarily focused on refining the html code to produce a working website that it efficient and bug free. We did unit tests on our code. It is difficult to test the actual results of the linear algorithm, so we tried to test each individual indicator. Doing this, the algorithm works as far as we can. All our sprint goals were accomplished. We accomplished every product backlog goal except predicting the results of future brackets. In theory this sounds easy but in practice it is much more difficult. There is a lot of data analysis that would go into this to produce a strong bracket that we do not exactly understand. The website is set up in a way that we could try to predict future brackets when sufficient information comes out. All we would need is the season’s data and the teams in the tournament.