**NCAA Bracket Predictor**

# Sprint 3

Team Members:

Kevin Brosam, Nate Lang, John Hattas, Alex Berkhout, Matt Petter

**User Stories:**

Alex wants to be able to easily access the predictor and run it. A website that has the predictor hosted would be the best option. He wants to be able to select the year and what indicator/indicators will be used. He also wants it to show the matchups and each winner and loser. He also wants to be able to easily run multiple predictions.

Kevin wants to be able to see which indicators a stronger impact on which team wins than others. He prefers visual data that shows who wins but also wants to see some of the math behind the winners. A statistical approach to finding the winner would be best.

**Task Cards:**

-Have Django code display a bracket depending on selected indicator

-Create graphs to give a visual model

-Develop a statistical method for variable removal

-Have Django code able to select which year to use

-Develop a machine learning approach to find best possible bracket

-Have Django show what % is right

-Have a list of possible indicators in the Django code

-Have the Django code display the bracket and which teams it selected

-Host website

**Sprint Backlog:**

|  |  |  |
| --- | --- | --- |
| Task | Priority [1-10 (1 being lowest)] | Completed(Y/N) |
| Have Django code display a bracket depending on selected indicator | 6 | Y |
| Create graphs to give visual model | 9 | Y |
| Develop a statistical method for variable removal | 4 | Y |
| Have Django code able to select which year to use | 8 | Y |
| Have Django display what % of bracket is correct | 4 | N |
| Host website | 10 | Y |
| Have Django code display what possible indicators it can use | 7 | Y |
| Have Django code display the bracket and which teams it picked | 7 | Y |
| Develop a machine learning approach to find best possible bracket | 7 | N |

**Product Backlog:**

|  |  |  |
| --- | --- | --- |
| Task | Priority [1-10 (1 being lowest)] | Completed(Y/N) |
| Develop an algorithm that predicts previous tournaments results | 1 | N |
| Integrate more advanced statistics | 7 | Y |
| Create picture of the bracket with appropriate teams | 7 | Y |
| Collect Data | 10 | Y |
| Have a basic working model | 10 | Y |
| Back test for better prediction results | 4 | N |
| Potentially display through HTML | 1 | Y |
| Update for 2018 tournament | 3 | Y |
| Compare different basic algorithms to find the easiest while not losing accuracy | 8 | N |
| Display data in charts and tables | 5 | Y |
| Add location as one of the indicator | 2 (if reasonably possible) | N |
| Create User Interface | 4 | Y |

## Sprint Retrospective