**NCAA Bracket Predictor**

# Sprint 2

Team Members:

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**User Stories:**

Nate is looking for a way to compare multiple tournaments at a time and find a way to predict the winner based on previous tournaments. He wants to select several indicators and have the program find the ideal combination for the best possible bracket. He also wants to be able to use advanced statistics such as SRS or SOS.

Alex is interested in seeing how different indicators affect the predicted bracket. He wants to be able to select many different combinations of indicators and weights to vary the output bracket, so he can compare different possibilities. He would also like to be able to compare these outputted brackets against past seasons to get a general idea of how accurate it might be. Most importantly, he needs many different options for statistics that he would be able to use as indicators.

**Task Cards:**

Get Kaggle data and adapt code to use it

Create SRS, SOS, RPI, methods

Refine code and optimize for better run time

Implement a basic machine learning algorithm

Run basic machine learning algorithm for multiple years

Create an extra stats column

Have multiple working indicators

Have a weighting system for indicators

**Sprint Backlog:**

|  |  |  |
| --- | --- | --- |
| Task | Priority [1-10 (1 being lowest)] | Completed(Y/N) |
| Create extra stats column | 7 | N |
| Weighting system for indicators | 5 | N |
| Basic Machine Learning algorithm | 4 | N |
| Multiple working indicators | 10 | Y |
| Create SRS, SOS, RPI methods | 7 | N |
| Optimize code | 7 | Partly |
| Import Kaggle Data, adapt code | 10 | Y |
| Run against multiple years | 3 | 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 | N |
| Create picture of the bracket with appropriate teams | 7 | N |
| Collect Data | 10 | Y |
| Have a basic working model | 10 | Y |
| Back test for better prediction results | 4 | N |
| Potentially display through HTML | 1 | N |
| Update for 2018 tournament | 3 | N |
| Compare different basic algorithms to find the easiest while not losing accuracy | 8 | N |
| Display data in charts and tables, potentially using R | 5 | N |
| Add location as one of the indicator | 2 (if reasonably possible) | N |
| Create User Interface | 4 | N |

## Sprint Retrospective