DND Dice Checker

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Description

Avid table-top gamers employ entire die sets during gaming sessions. Trying to keep track of die stats and test dice for bias is difficult, especially if one doesn't have previous experience with Excel or statistics. The DND Dice Checker allows gamers to save dice data and easily test it without having to do complicated math.

Features

- Create and organize die sets
- Store die roll data
- Analyze die for bias
- Visualize die roll data
- Random dice generator

Planning - User Stories

- Motivated by need for some players to keep track of dice data.
- Players can make and organize custom die sets with varying number and types of die.
- Players can store die roll data quick enough it can be done during a game.
- Players can view stats about data and analyze dice for fairness

Planning - Database

Each die set contains its own set of die. Each die of that set then has its set of die rolls, and associated statistics (chi-square, mean, etc.).

Technology Stack

- Javascript
- IntelliJ
- Angular 8
- LocalStorage
- ChartJS

Demo

What I Learned

- Angular Forms, both Reactive & Template
- ChartJS
- Converting and saving objects in LocalStorage using JSON
- Writing custom statistics functions

What's Next

- Having option for multiple die rolls that sums the results
- Connecting to MongoDB with Node.js to allow for user profiles and a more complex CRUD repository
- Performing fairness comparisons on entire sets of die, and permitting comparison between die sets