Jordan Throgmorton and Jessie Wilkins

CIS 475

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Registration for Project

**Project Name and Team**

Jordan Throgmorton and Jessie Wilkins will create a random name generator called Name Infinity, and our team name will be Goofy Goobers. The captain of this team will be Jessie Wilkins.

**Problem:**

The program problem that should be solved is how to choose names without having any preliminary ideas about the name.

**Solution:**

The solution to this problem will involve using Java’s randomization library simply called Random that can randomly select pre-made names and randomly generate a brand new, completely random name.

**Algorithm Details:**

The user will be asked for input on the algorithm used such as whether they want to randomly pick a pre-made name or to generate a totally new name. The user will also be asked what gender of, length of, first letter of, and letters used in name. The Java random library will be used to randomly generate a number that will correspond to a given name in an array or file if the pre-made name option is selected, and a series of randomly generated numbers will be used to select a number of characters from a character array. These will all follow the given options and rule sets that are selected by the user or the algorithm via if statements. The randomly generate name itself will have to follow some given rules for how names should be spelled. For example, there can be no more than two contiguous vowels or consonants in each string and, it can only start with one vowel or consonant rather than two or more (some exceptions such as ‘st’ may need to be given).

**Functional Requirements:**

The functional requirements for this project will be random string or letter generation (or pseudo-random in this case), user input and program output via the console. It needs to have customization features such as the name’s gender, length, beginning letter, and letters used in the word.

**Societal Benefits:**

The societal benefits from this program are that soon-to-be parents that have difficulty in choosing a name for their child will have less stress due to the fact that the program can choose for them. This program can also be used to generate random names for anything else that can be named such as pets, cars, and instruments.