Business Proposal - Project 2

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**Problem Summary:**

Project Management is in need of randomly assigned teams for each new week during the fall 2022 semester. The program needs to be created using Go and has to produce a list of randomized teams, work with uneven team numbers, and allow the user to select the number of individuals on each team.

**Goals:**

Learn the Go language and then create a simple program following the requirements given by Sarah Fox while working effectively as a group.

**Cost Estimate:**

$34/hour

The national average pay for junior developers is $31, but with our expertise in the BYU business school we decided to charge slightly more to reflect our experience. Given the estimate of 4 hours of work, we estimate the total cost of the project to be $136.00.

**Timeline Estimate:**

We propose that this team will spend a collective 4 hours of labor by Wednesday September 14, 2022. Given the relative simplicity of the task we will work together in a two hour coding session to: set up our go environments and familiarize ourselves with the language, plan, scaffold, write, and review the code necessary to fulfill the requirements of the project. Of these tasks we predict the two most time intensive will be the first - to familiarize ourselves with Go - and the second to last - to actually produce the code necessary - as both will require a measure of problem solving and troubleshooting.

**Actual Timeline - Broken down by person:**

Madison: ½ hour

Joseph: ½ hour

Ezra: ½ hour

Matthew: 2 hour

Total time: 3.5 hours

The time represented above reflects the work we did during our two hour code session. Between the installation and study of Go, planning, and scaffolding the program we were able to complete the code within two hours. Matthew did the bulk of the code while Madison, Joseph, and Ezra worked on tweaking and commenting the code for project 2. All contributed to the project report.

**Actual Cost:**

The costs incurred while completing this project total $119. This total reflects the two hour coding session Matthew gave to fulfill the requirements of the project and the other 1.5 hours where Madison, Ezra, and Joseph wrote the report and reviewed the code.