Business Proposal - Project 1

Madison Coffey, Ezra Marin, Joseph Espiritu, Matthew Corbett

**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 Java and has to produce a list of randomized teams, work with uneven team numbers, and allow the user to select how many teams are needed for the project.

**Goals:**

Learn the Java language and then create a simple program following the requirements given by Sarah Fox while working effectively as a new 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 8 hours of work, we estimate the total cost of the project to be $272.00.

**Timeline Estimate:**

We propose that this team will spend a collective 8 hours of labor by Wednesday September 7, 2022. Given the relative simplicity of the task we will work together in a two hour coding session to: setup our java 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 java - 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: 2 hour

Joseph: 2 hour

Ezra: 2 hours

Matthew: 2 hour

Total time: 8 hours

The time represented above reflects the work we did during our two hour code session. Between the installation and study of java, planning, and scaffolding the program we all contributed one hour. The next hour we co-coded for about 40 minutes. Once the program worked, Madison produced the write up, and Ezra, Matt, and Joseph reviewed the code and added additional comments.

**Actual Cost:**

The costs incurred while completing this project total $272. This total reflects the two hour coding session attended by the whole team where we fulfilled the requirements of the project.