CS 4900
Project: Quad Solver
Stories
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Team

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Client: JKK Consulting
Contact: John Kapenga

Introduction:
JKK Consulting is an engineering firm that needs a quadratic equation solver developed. Specifically this will solve the equation $ax^2+bx+c = 0$. They would like this developed for a linux operating system. The requirements specify that their solver be as accurate as possible for floating point input up to four significant figures. The solver will take in three floating point values as input and return two real roots as the solution for the quadratic equation or return an error.

Story #4: An IT engineer with compile the program using GCC using common flags such as -wall, -std, -cll etc.

Story #5: Unit tests will be conducted on the program to ensure functionality. The consists of configuring the program methodically with various calls and asserts.

Story	**Time to Complete**	**Risk (low - 1 high - 10)**	**Actual Time**	**% Complete**
S4	2 Weeks	4	TBD	0
S5	8 Weeks	5	TBD	0

Requirements:

Hardware Requirements

- **OS:** Linux Ubuntu
- **Compiler:** GCC 18.04

Technical Requirements

- Will be run on a single line with inputs separated white spaces
- Coding Standards - TBD
- GCC Example: qs.o: getit.o

  ${CC} -o qs qs.o getit.o
- Line by Line Setup for Unit Testing
- Flags and asserts for Unit Testing