ACSE-9 Final Project Plan

Title:

CoNus-Viz: A Visualization Package for the Concurrent Library for Numerical Simulations

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**Introduction**

CoNus is a generic numerical modelling library written in Scala; a multi-paradigm language that targets the Java Virtual Machine (JVM).

The CoNus library makes extensive use of functional programming techniques.

CoNus is experimental and currently lacks a visualization library to effectively plot the results of the simulations. Although the JVM has a rich eco-system, plotting and visualization options are very poor.

The aim of this project will be to implement this visualization library using functional programming techniques.

What is functional programming? Theoretical background