SE 110: Software Engineering

Spring 2012

Project Proposal

Project title: CORRELATION ANALYSIS

Team Members:

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Abstract:

World Bank is propagating a large amount of socio-economic data. We are attempting to provide general users visualization tools to display this data. In this project we will try to understand the relationships between these socio-economic indicators. We utilize a bivariate display between the two indicators in order to discover relationships between these variables i.e. we will calculate the correlation between them.

Correlation analysis measures the relationship between two items. When comparing the correlation between two items, one item is called the "dependent" item and the other the "independent" item.

Properties of Correlation Analysis –

1. It provides a powerful desktop based on World Bank Data. Each indicator is shown as a widget in desktop.
2. It utilizes World Bank Data to fetch information from World Development Indicators Dataset to calculate correlation coefficient.

We can calculate correlation coefficient between any two indicators of any two countries/income levels/regions (for this application we are using "CO2 emissions (metric tons per capita)" and "Energy use (kg of oil equivalent per capita)"). Thus, this tool can help us to find some potential relations around the world, which can help to understand the world and reveal some underlying problems.

Faculty Supervisor: Prof. Shrisha Rao

Signature of Faculty Supervisor: