SE 110: SOFTWARE ENGINEERING

Spring 2012

PROJECT PROPOSAL

Date: 30/1/2012

1. Title: Correlation Analysis

2. Team members (Name & Roll Number):
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   b. Pragya Singh Tomar MT2011105

3. Name of the Professor (domain): Prof. Shrisha Rao

4. Date: 30/1/2012

5. Version number: Version 1.0

6. Start Date: 03/01/2012

7. End Date: 15/04/2012

8. Objectives: Create a web app that uses the World Bank's API to perform correlation analyses between any two indicators, with other parameters also chosen by a user.

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

   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.

10. Deliverables:

- Milestones (at least five intermediate milestones):
  - Learn the Technology (XML, WEB API).
  - Design the web interface.
  - Extract the data from World Bank's database.
  - Develop XML Parser in Java.
  - Develop the web-interface.

- List of final deliverables:
  - Complete documentation
  - Report for audit
  - User guide

11. Estimated total time (unit: hours): 70 hours(7 hrs/week)

12. H/W and S/W requirements:

Hardware requirements –

- Only a single machine is required.
- 2 GHz processor
- 1 GB RAM
- Disk space as required.

Software requirements –

- Operating System: Windows XP SP2, Windows 7, Linux
- Web Browsers (one required on client-side):
  - Internet Explorer 6.0 SP2 or higher (Java enabled)
  - Netscape 6.2 or higher (Java enabled)
  - Mozilla 5.0 or higher (Java enabled)
  - Firefox 1.5 or higher (Java enabled)
- Jdk1.6
- Netbeans 7.0.1
- XML Editor

13. Technology:

- JAVA
- XML

14. Standards:

- Follow code conventions of JAVA language
- Follow XML standards.