General Project organization:

Each team 4 or less team members.

There will be 3 project iterations: Each iterations includes specification, Design and Implementation. ***Each team should assign team leader for each phase. Team leaders should <u>rotate</u> after <u>each</u> project iteration.***

Responsibilities of each group members: Everybody has to participate in all iterations of the project=> I am expecting a somewhat equal contribution.

Responsibilities of the team leader: Regular group members responsibilities **+ administrative responsibilities (**E.g.: organizing meetings, making sure that timelines are met, etc

Project description/ Contract description:

Your team is replying to the following advertisement in the Montreal Gazette:

ProfitsRUS is a company which provides financial service software to end-user. The organization supports both online as well as stand-alone desktop applications. ProfitsRUS is a market leader and aims to expand their products with a new stock market analysis software

Project description:

The objective of the project is to provide ProfitsRUS with a new technical analysis software for the stock market to guide user's during the decision making whether to buy or sell a stock. The software should be based on existing technical analysis techniques to make clear buy/sell recommendations. Among the analysis techniques are MAs. Analysis should be performed for one stock at the time.

Programming language: Java

Responsibilities of the consultant company:

- Provide analysis, specification and necessary documentation, including a cost estimation.
- <u>An iterative development cycle should be followed with 3 iterations being delivered.</u>
- Design and implementation of the information system
- Provide required functionality /application programs
- Testing and debugging of the system
- Operation and maintenance of the system

Organization Chart of **FactsRUS**
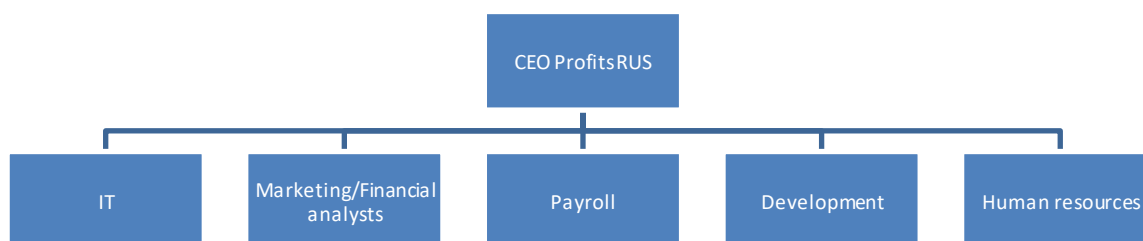
Technical Analysis of Stocks

The methods used to analyze securities and make investment decisions fall into two very broad categories: fundamental analysis and technical analysis.

Fundamental analysis involves analyzing the characteristics of a company in order to estimate its value.

Technical analysis takes a completely different approach; it doesn't care one bit about the "value" of a company or a commodity. Technicians (sometimes called chartists) are only interested in the price movements in the market. Technical analysis is the study of financial market action. The technician looks at price changes that occur on a day – to - day or week - to - week basis or over any other constant time period displayed in graphic form, called charts. Hence the name chart analysis. A chartist analyzes price charts only, while the technical analyst studies technical indicators derived from price changes in addition to the price charts

For more information:

https:// www.credit-suisse.com/pwp/pb/pb_research/technical_tutorial_de.pdf
(in particular pages 1-15 – focusing on Moving averages)

and

http:// i.investopedia.com/inv/pdf/tutorials/technicalanalysis.pdf   (in particular section 1-4 + 10)

Interview directives. The interviews will take place during the regular tutorial/lab hours on 23/9/2016

Step #2

    a. Prepare for a structured interview for your interview appointment (schedule will assigned time slots will be posted); identify questions you would like to ask each department manager. Please make sure that you well prepared and have precise questions ready.

    b. Provide the tutors with a list of departments and a set of predefined questions prior to the interview. The information should be submitted **prior** to the actual interviews (the latest by Thursday evening (22/9/2016). Submit them through Moodle (only one submission per group).

Step 3#:

    1. Identify the departments that you would like to interview. Please note that your total interview time is limited to max *10 minutes*. The goal of the interview is to identify all (or at least most) of the requirement needs of your clients. During the interview the TAs will take on the role of the different department heads.

Important:

    2. During the meeting with the different department heads, please be aware that they
        a. will only be knowledgeable about their own department/domain.
        b. They will only be available during their interview, once you move on to the next department there will be no going back to the previous department head => you cannot go back during the interview to ask additional clarification questions.
        c. However you will be able to mention any open questions in your summary report – which you will submit through Moodle (again only one submission per group) – latest by Monday 26/9/2016